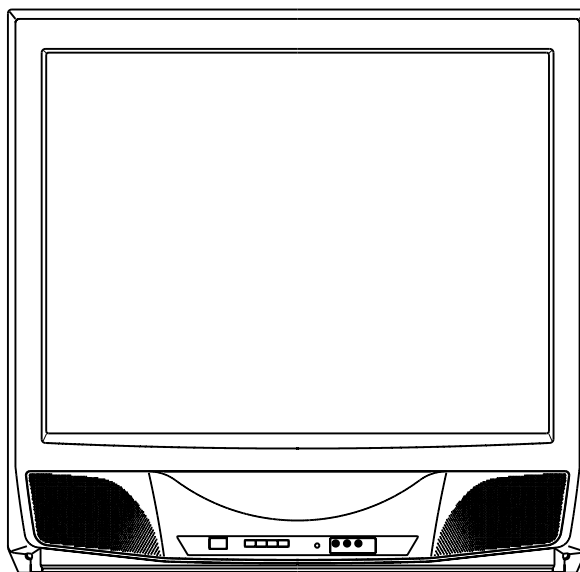


Memorex[®]

MT2325

SERVICE MANUAL

COLOR TELEVISION RECEIVER



**ORIGINAL
MFR'S VERSION A**

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 \triangle 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 external 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

32 inch(806.0 mmV):Measured diagonally
Color CRT 110 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)

Oscar(W/ HYPER)

France CATV)

Others

Receiving channel

(USA) 2~ 69, 4A, A-5~A-1, A~ I, J~ W, W+1~ W+84

(G) _____, _____, _____, _____, _____, _____

(F:SECAM) _____, _____, _____

(F:PAL) _____, _____, _____, _____, _____, _____

(UK) _____

Tuning System

Frequency syn.

Voltage syn.

Others

G-8Preset Channel

-- channels

G-9.Intermediate Frequency

Picture(fP) 45.75 MHz _____ MHz _____ MHz

Sound (fS) 41.25 MHz _____ MHz _____ MHz

fP-fS 4.50 MHz _____ MHz _____ MHz

G-10.Stereo/Dual TV Sound

Yes(NICAM GERMAN USA JAPAN) No

G-11.Tuner Sound Muting

Yes No

G-12Power Source

120 V AC 50Hz AC 60Hz

G-13Power Consumption:

(Approx) 150 W at AC 120 V 60 Hz

_____ W at DC _____ V

Stand by(Approx): 8 W at AC 120 V 60 Hz

Per Year: _____ kWh / Year

G-14.Dimensions(Approx.)

766 mm(W) 566 mm(D) 745 mm(H)

G-15.Weight(Approx.)

Net : 55 kg (-- lbs)

Gross: 58 kg (-- lbs)

G-16.Cabinet Material

Cabinet Front:

PS
ABS

94HB
94V2
94V0

DECABROM
NON-DECA

Back Panel:

PS
ABS

94HB
94V2
94V0

DECABROM
NON-DECA

GENERAL SPECIFICATIONS

G-17.Protector: Power Fuse

G-18.Regulation

Safety

- | | | | | | |
|--|---|----------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> UL | <input checked="" type="checkbox"/> CSA | <input type="checkbox"/> SAA | <input type="checkbox"/> SI | <input type="checkbox"/> CE | <input type="checkbox"/> SEV |
| <input type="checkbox"/> BS | <input type="checkbox"/> NF | <input type="checkbox"/> NEMKO | <input type="checkbox"/> FEMKO | <input type="checkbox"/> DEMKO | <input type="checkbox"/> IEC65 |
| <input type="checkbox"/> SEMKO | <input type="checkbox"/> NZ | <input type="checkbox"/> HOMOLO | <input type="checkbox"/> SABS | <input type="checkbox"/> CNS | <input type="checkbox"/> SISIR |
| <input type="checkbox"/> NOM | <input type="checkbox"/> AS3159 | <input type="checkbox"/> DENTORI | <input type="checkbox"/> UNE | <input type="checkbox"/> GOST | <input type="checkbox"/> NONE |

Radiation

- | | | | | | |
|---|---|----------------------------------|---------------------------------|---------------------------------|------------------------------|
| <input checked="" type="checkbox"/> FCC | <input checked="" type="checkbox"/> DOC | <input type="checkbox"/> FTZ | <input type="checkbox"/> PTT | <input type="checkbox"/> CE | <input type="checkbox"/> SEV |
| <input type="checkbox"/> SABA | <input type="checkbox"/> SI | <input type="checkbox"/> NF | <input type="checkbox"/> NZ | <input type="checkbox"/> HOMOLO | <input type="checkbox"/> UNE |
| <input type="checkbox"/> CNS | <input type="checkbox"/> CISPR13 | <input type="checkbox"/> DENTORI | <input type="checkbox"/> AS/NZS | <input type="checkbox"/> NONE | |

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 5 °C~ 40 °C

Storage -20 °C~ 60 °C

G-20.Operating Humidity

Less than 80 %RH

G-21.Clock and Timer

Sleep Timer Yes Max 120 Min.(10 Min. Step) No

On/Off Timer Yes Programs No

Wake Up Timer Yes Programs No

G-22.Timer back up Time

More than -- Minutes (at Power Off Mode)

G-23.Terminals

- | | | | |
|--|--|---|--------------------------------------|
| <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 (x <u> </u>) | <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 checked="" type="checkbox"/> S Input(Rear) | |

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

On Screen Display

- | | | | |
|---|--|--|---|
| <input checked="" type="checkbox"/> Menu | <input type="checkbox"/> Clock Set(<input type="checkbox"/> 12H <input type="checkbox"/> 24H) | <input type="checkbox"/> System Select | <input type="checkbox"/> On/Off Timer |
| <input type="checkbox"/> Hotel Lock | <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"/> Sound 1/2 | <input type="checkbox"/> NICAM Auto Off | <input checked="" type="checkbox"/> Picture |
| <input type="checkbox"/> Guide CH Set | <input type="checkbox"/> Guide CH Set | <input checked="" type="checkbox"/> Audio | <input checked="" type="checkbox"/> Language |
| <input type="checkbox"/> CATV | <input type="checkbox"/> CATV | <input type="checkbox"/> Pin Code Registration | <input checked="" type="checkbox"/> V-Chip |
| <input checked="" type="checkbox"/> Control Level | <input checked="" type="checkbox"/> Volume | <input checked="" type="checkbox"/> Brightness | <input checked="" type="checkbox"/> Contrast |
| | <input checked="" type="checkbox"/> Color | <input checked="" type="checkbox"/> Tint | <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"/> Stereo, Audio Output, Bilingual | <input type="checkbox"/> Picture Menu | |
| <input checked="" type="checkbox"/> Stereo, Audio Output, SAP | <input checked="" type="checkbox"/> Stereo, Audio Output, SAP | <input type="checkbox"/> Mid Night Theater | |
| <input type="checkbox"/> Stereo, Audio Output | <input type="checkbox"/> Stereo, Audio Output | <input type="checkbox"/> GAME | |
| <input checked="" type="checkbox"/> AV | <input checked="" type="checkbox"/> AV | <input type="checkbox"/> Clock | <input type="checkbox"/> Hotel Lock |
| <input checked="" type="checkbox"/> Sleep Timer | <input checked="" type="checkbox"/> Sleep Timer | <input type="checkbox"/> Pin Code | |
| | <input checked="" type="checkbox"/> Channel | | |
| | <input checked="" type="checkbox"/> Sound Mute | | |

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 Front Side Bottom

Size 3 inches
 Imp 8 ohm x 2 pcs
 Power Max 3.5 + 3.5 W
 10% 2.6 + 2.6 W (Typical)
 Imp 4 ohm x 2 pcs (form OCT Order)
 Power Max 5.0 + 5.0 W (form OCT Order)
 10% 4.5 + 4.5 W (Typical) (form OCT Order)

Position Center
 Size -- inches
 Imp -- ohm x -- pcs
 Power Max -- W
 10% -- 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 Double/Brown Corrugated Carton (with Photo Label)
 Double/White Corrugated Carton (with Photo Label)
 Double Full Color Carton W/Photo

Dimensions: 856 mm(W) 648 mm(D) 845 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: 88 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"/> Din Type	<input type="checkbox"/> France Type)
<input type="checkbox"/> Loop Antenna	(<input type="checkbox"/> F-Type	<input type="checkbox"/> Din Type	<input type="checkbox"/> France Type)

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 checked="" 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 checked="" type="checkbox"/> Closed Caption	<input type="checkbox"/> Center Woofer	
<input type="checkbox"/> Picture Menu	<input type="checkbox"/> Mid Night Theater	<input checked="" type="checkbox"/> V-Chip

GENERAL SPECIFICATIONS

G-32.Switch

Front

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Power(Tact) | <input checked="" type="checkbox"/> Channel Up/Reset | <input checked="" 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 |

G-34.Remote Control Unit:

RC-CS

Glow in Dark Remocon Yes No

Power Source: D.C 3 V Battery UM - 3 x 2

Total 42 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"/> Preset | <input type="checkbox"/> Rotate |
| | <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 Seleyc | <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 |

Multi Brand Key

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> VCR Power | <input checked="" type="checkbox"/> CH Enter | <input checked="" type="checkbox"/> TV |
| <input checked="" type="checkbox"/> Cable Power | <input checked="" type="checkbox"/> Rec | <input checked="" type="checkbox"/> VCR |
| <input checked="" type="checkbox"/> Pause/Still | <input checked="" type="checkbox"/> Stop | <input checked="" type="checkbox"/> Cable |
| <input checked="" type="checkbox"/> TV/VCR(VCR) | <input checked="" type="checkbox"/> Rew | <input checked="" type="checkbox"/> Play |
| <input checked="" type="checkbox"/> FF | <input checked="" type="checkbox"/> MBR Set | |

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.

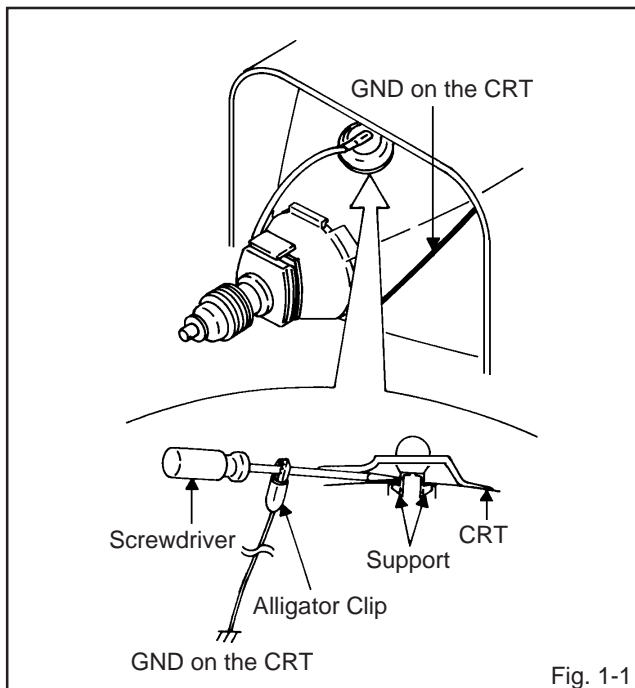


Fig. 1-1

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.)

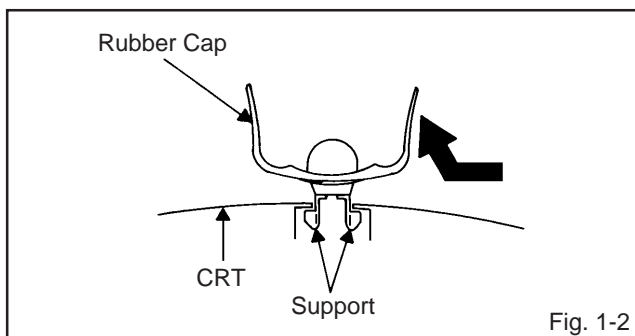


Fig. 1-2

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.)

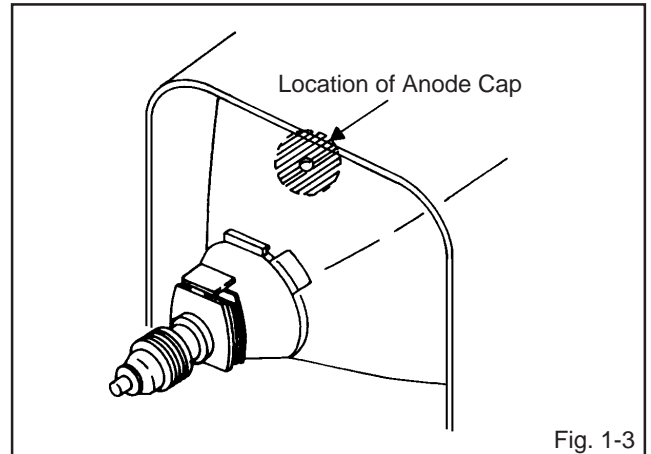


Fig. 1-3

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.)

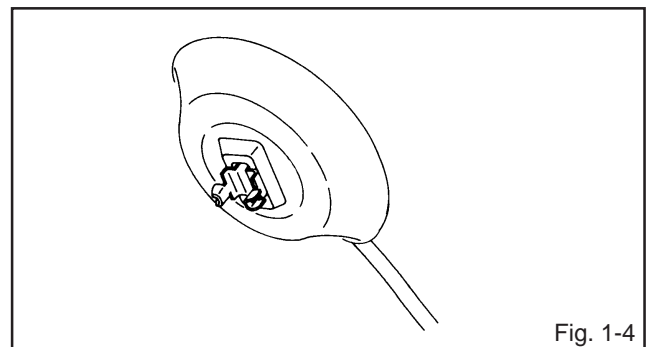


Fig. 1-4

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

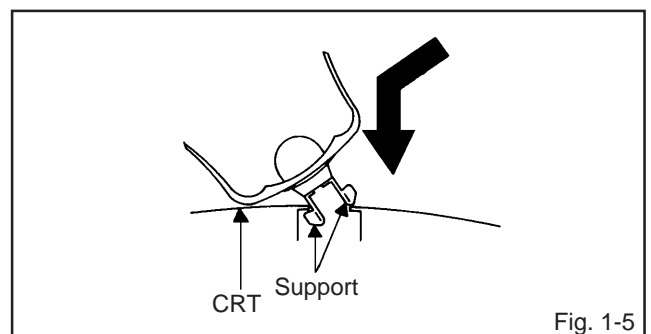


Fig. 1-5

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

SERVICE MODE LIST

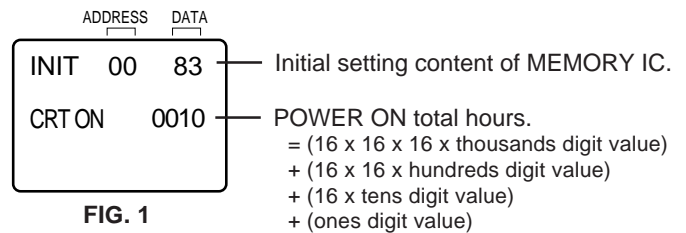
This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily. To enter the Service Mode, press both set key and remote control key for more than 2 seconds.

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 9.

ADDRESS	INI 00	INI 01	INI 02	INI 03	INI 04	INI 05	INI 06	INI 07	INI 08	INI 09
DATA	8C	27	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. Place the set with Aging Test for more than 15 minutes.
2. Receive a 70dB monoscope pattern.
3. Connect the digital voltmeter between the **pin 2 of CP101** and the **pin 6 (GND) of CP101**.
4. 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.
5. Press the channel button (1) on the remote control.
6. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is $2.3 \pm 0.05V$.

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. Place the set with Aging Test for more than 15 minutes.
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 (5) on the remote control.
The **Fig. 2-2** appears on the display.
4. Press the channel button (5) on the remote control.
5. Adjust the **Screen Volume** until a dim raster is obtained.

2-3: WHITE BALANCE

NOTE:

Adjust after performing adjustments in section 2-2.

1. Place the set with Aging Test for more than 15 minutes.
2. Receive the color bar pattern.
3. 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.
4. 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

ELECTRICAL ADJUSTMENTS

2-4: 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.

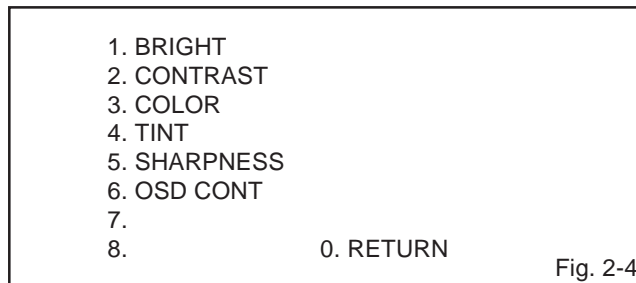


Fig. 2-4

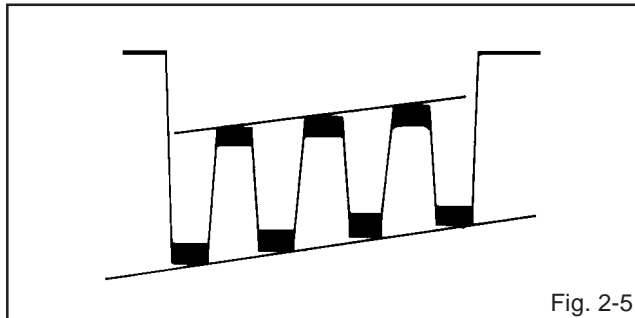


Fig. 2-5

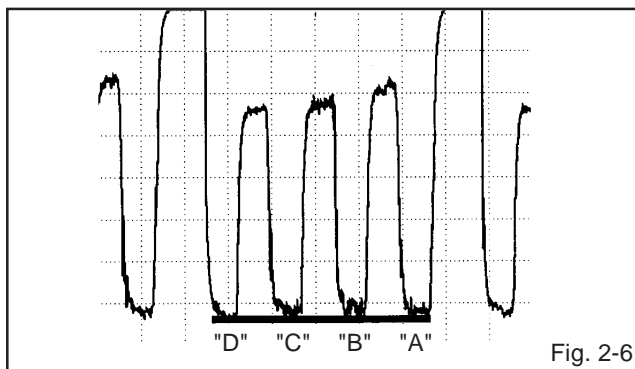


Fig. 2-6

2-5: 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.

2-6: FOCUS

1. Using the remote control, set the brightness and contrast to normal position.
2. Receive the monoscope pattern.
3. Turn the Focus Volume fully counterclockwise once.
4. Adjust the **Focus Volume** until picture is distinct.

2-7: 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.

2-8: 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.

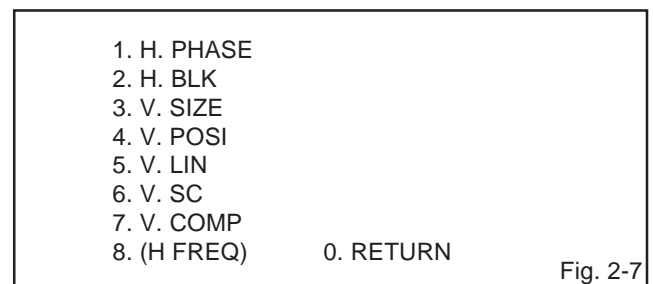


Fig. 2-7

ELECTRICAL ADJUSTMENTS

2-9: 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.

2-10: HORIZONTAL SIZE

1. Receive the crosshatch pattern.
2. Using the remote control, set the brightness and contrast to normal position.
3. Adjust the **VR402** until the center of crosshatch is square.

2-11: PIN CUSHION

1. Receive the color bar pattern.
2. Using the remote control, set the brightness and contrast to normal position.
3. Adjust the **VR403** until the vertical line becomes straight.

2-12: VCO FREERUN

1. Place the set with Aging Test for more than 5 minutes.
2. Receive the UHF.
3. Disconnect the Antenna while receiving the UHF and set to the Noise screen.
4. Once turn off the Power and turn on the Power again.
5. Approx. 3 seconds later, input the Antenna again.
6. Connect the digital voltmeter to **TP201**.
7. Adjust the **L205** until the digital voltmeter is $3.1 \pm 0.05V$.

2-13: 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. 2-8** 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. 2-8

2-14: CONSTANT VOLTAGE

1. Place the set with Aging Test for more than 15 minutes.
2. Using the remote control, set the brightness and contrast to normal position.
3. Connect the digital voltmeter to **TP401**.
4. Set condition is AV MODE without signal.
5. Adjust the **VR502** until the digital voltmeter is $117 \pm 0.5V$.

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.

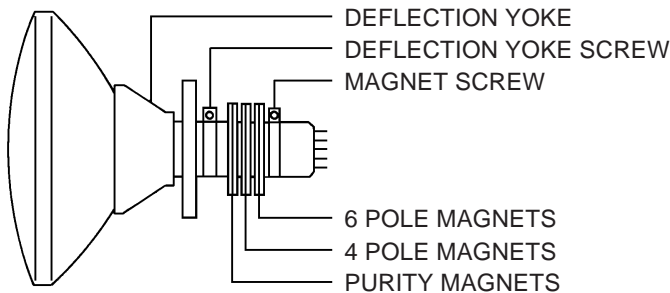


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

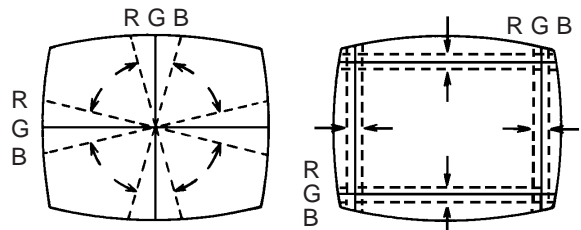
1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

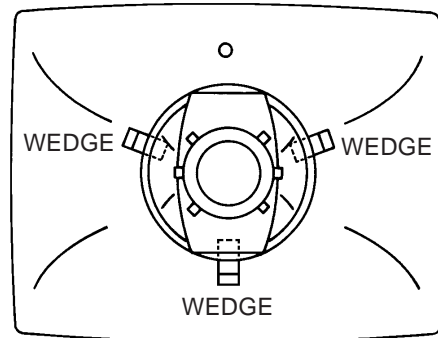
Adjust after performing adjustments in section 3-3.

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

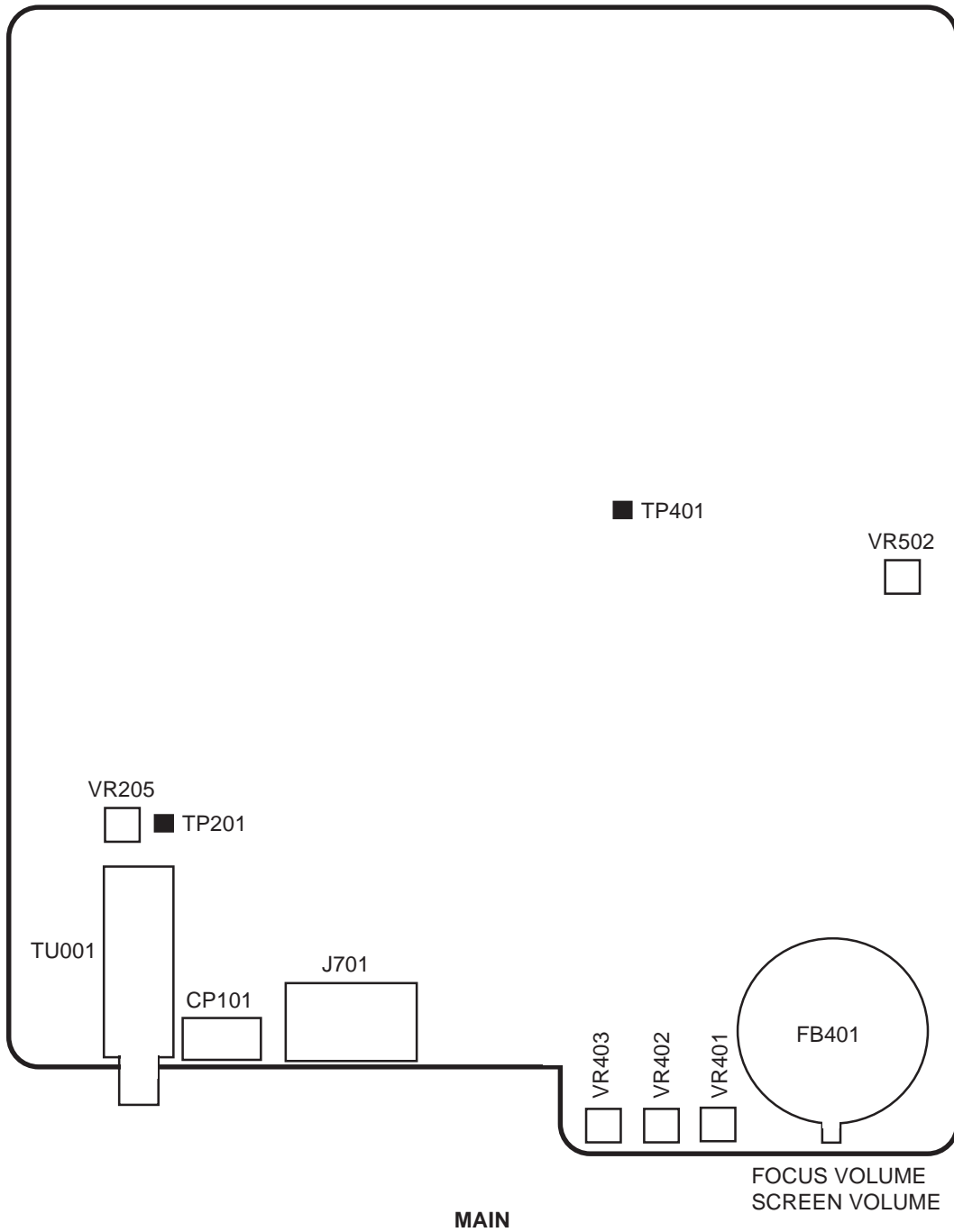
Fig. 3-2-a



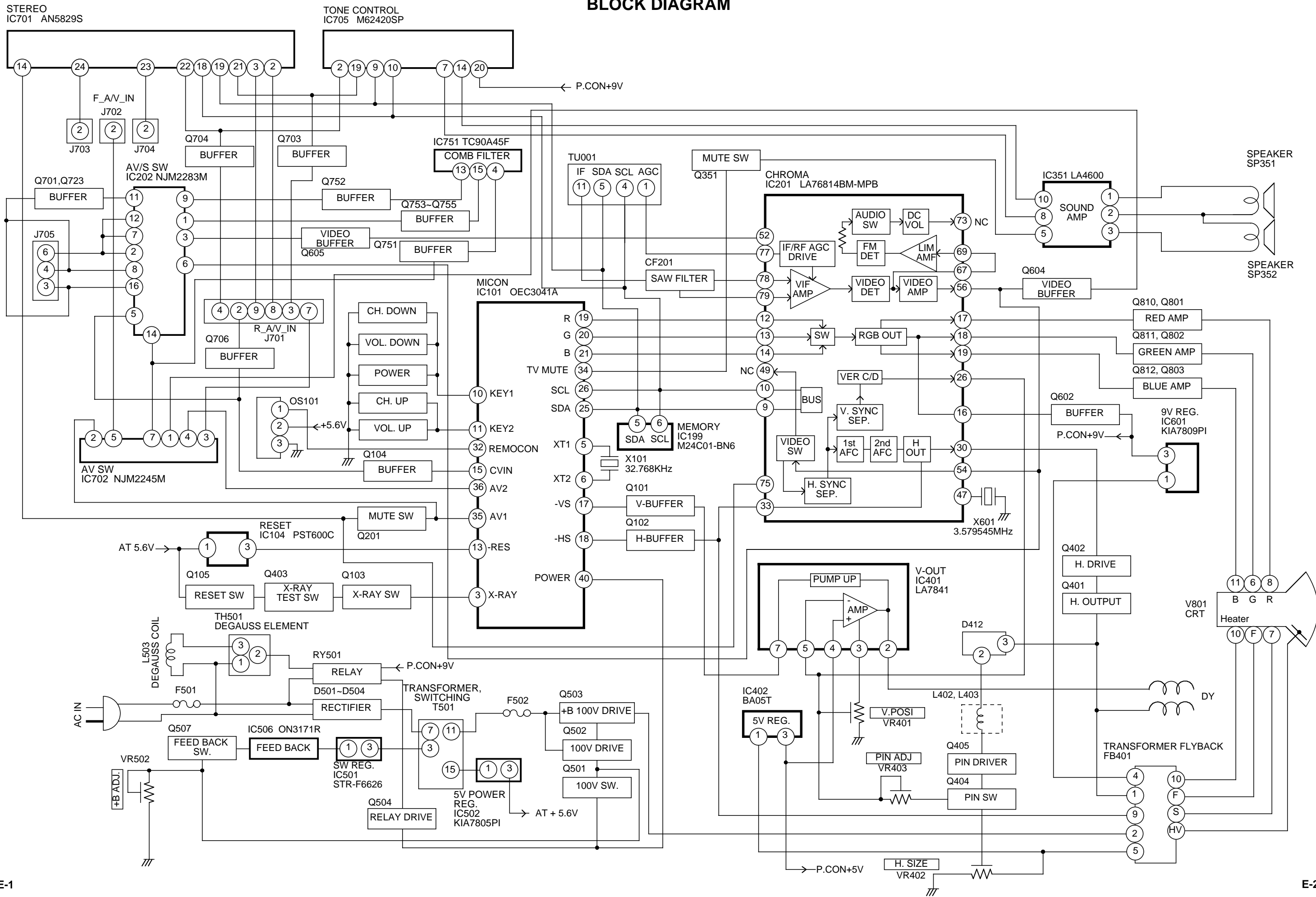
WEDGE POSITION

Fig. 3-2-b

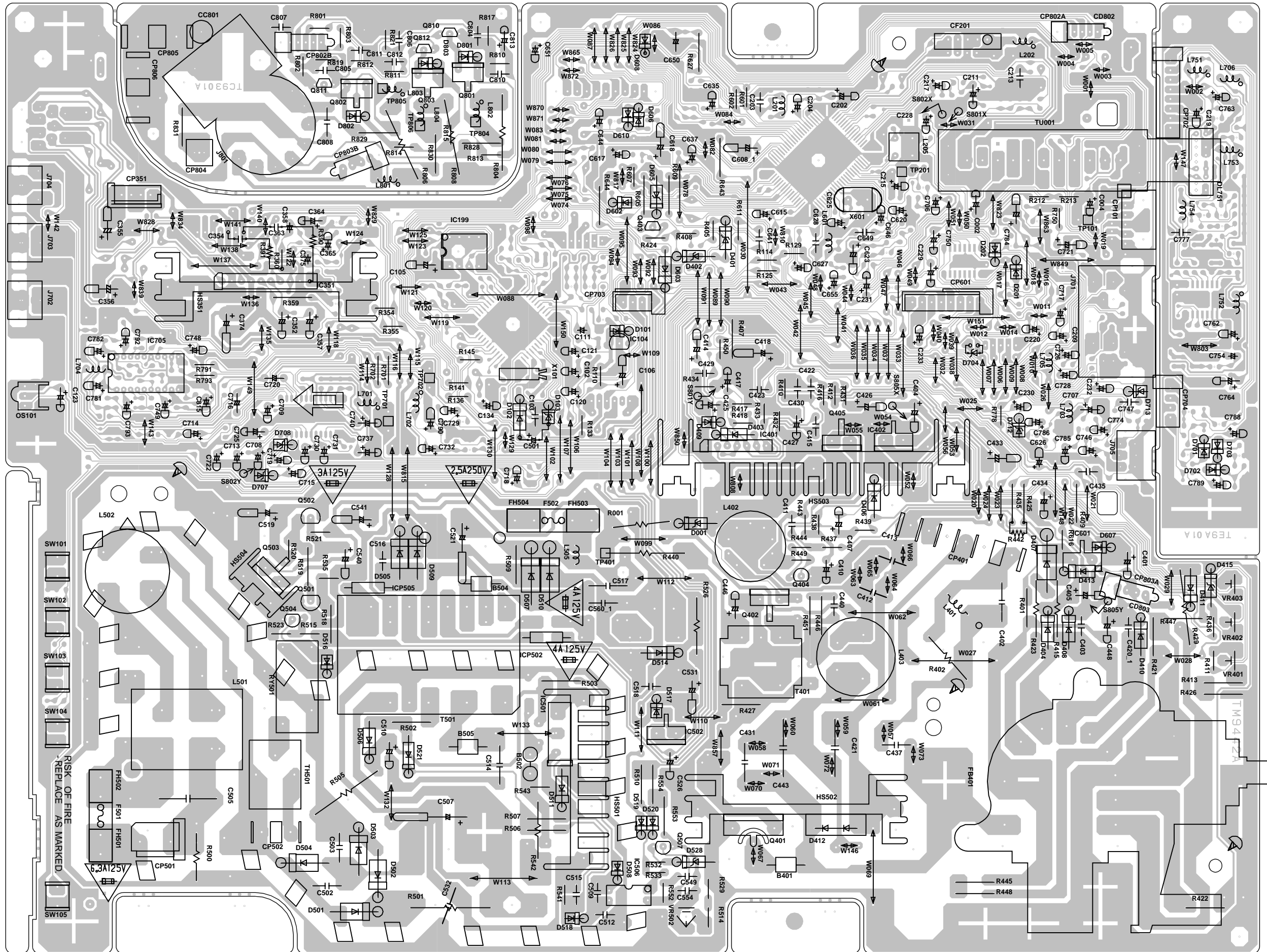
MAJOR COMPONENTS LOCATION GUIDE



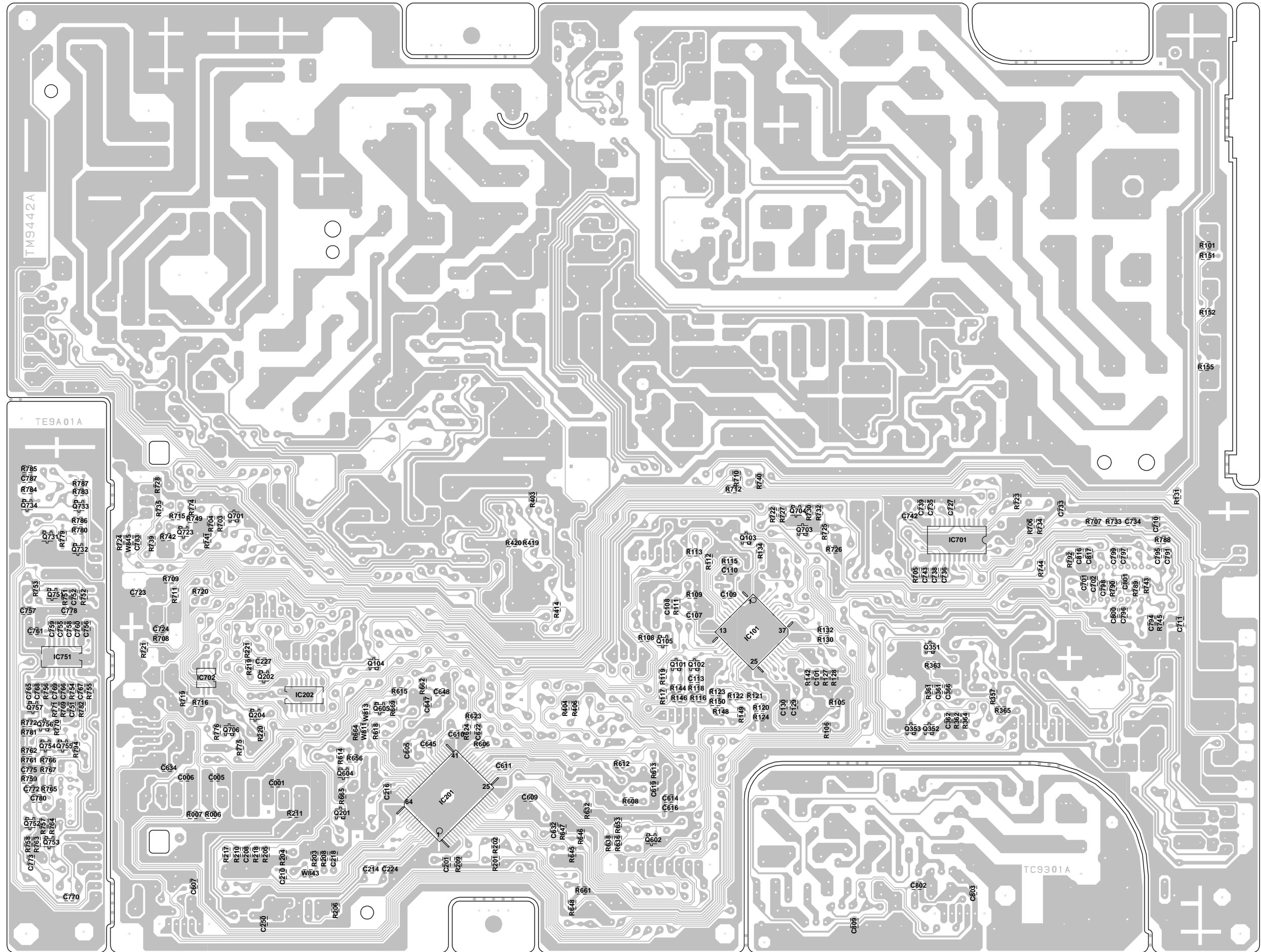
BLOCK DIAGRAM



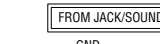
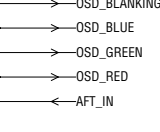
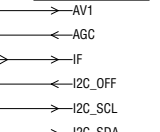
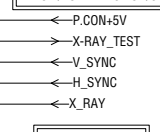
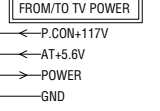
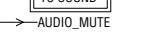
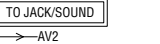
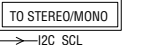
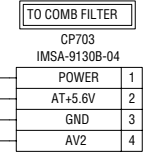
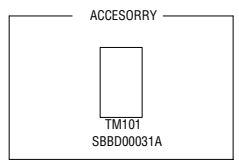
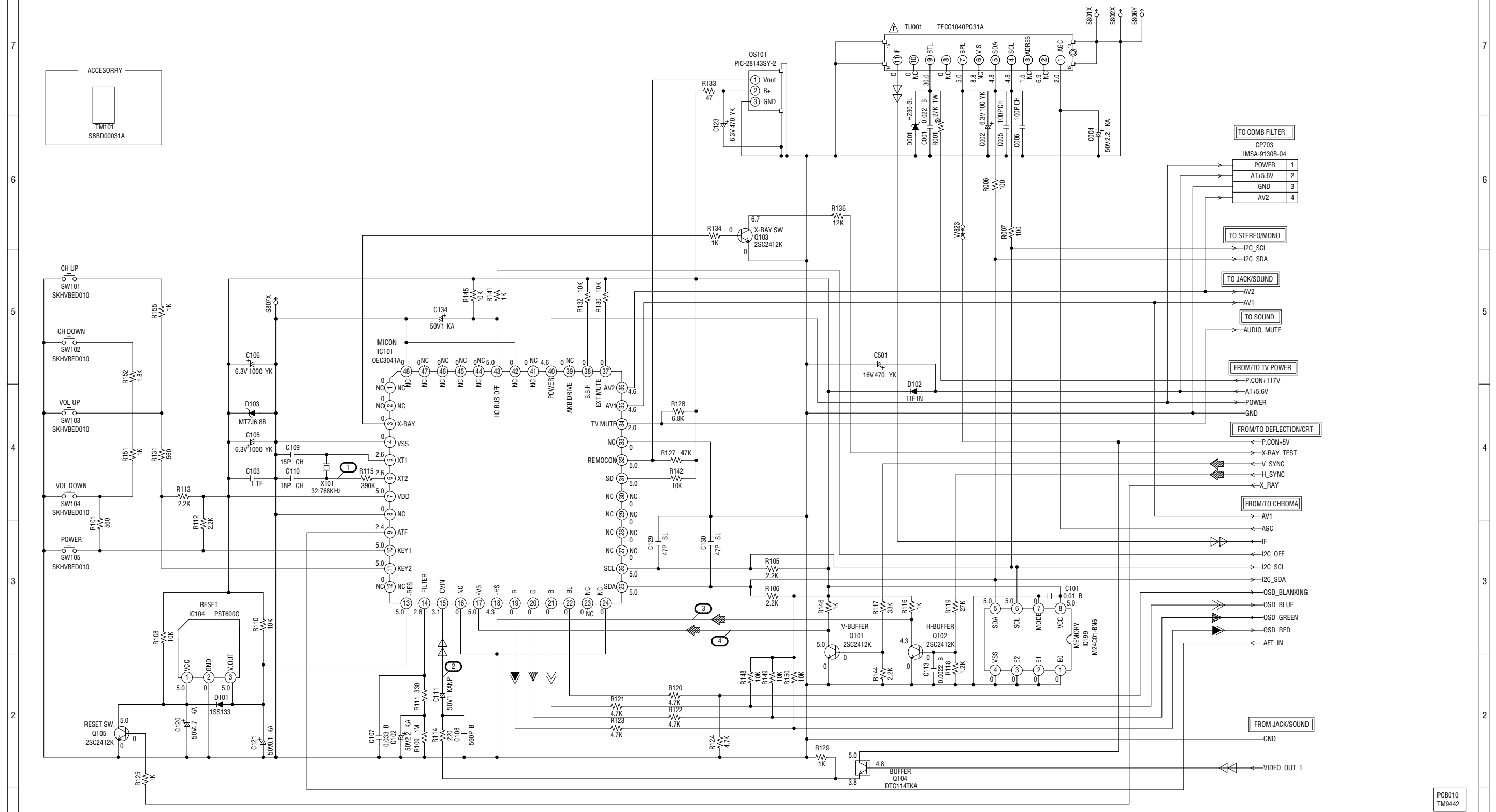
PRINTED CIRCUIT BOARDS
MAIN/CRT/COMB (INSERTED PARTS)
SOLDER SIDE



PRINTED CIRCUIT BOARDS
MAIN/CRT/COMB (CHIP MOUNTED PARTS)
SOLDER SIDE



MICON/TUNER SCHEMATIC DIAGRAM (MAIN PCB)



PCB010
TM9442

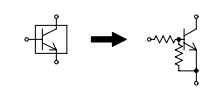
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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 ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

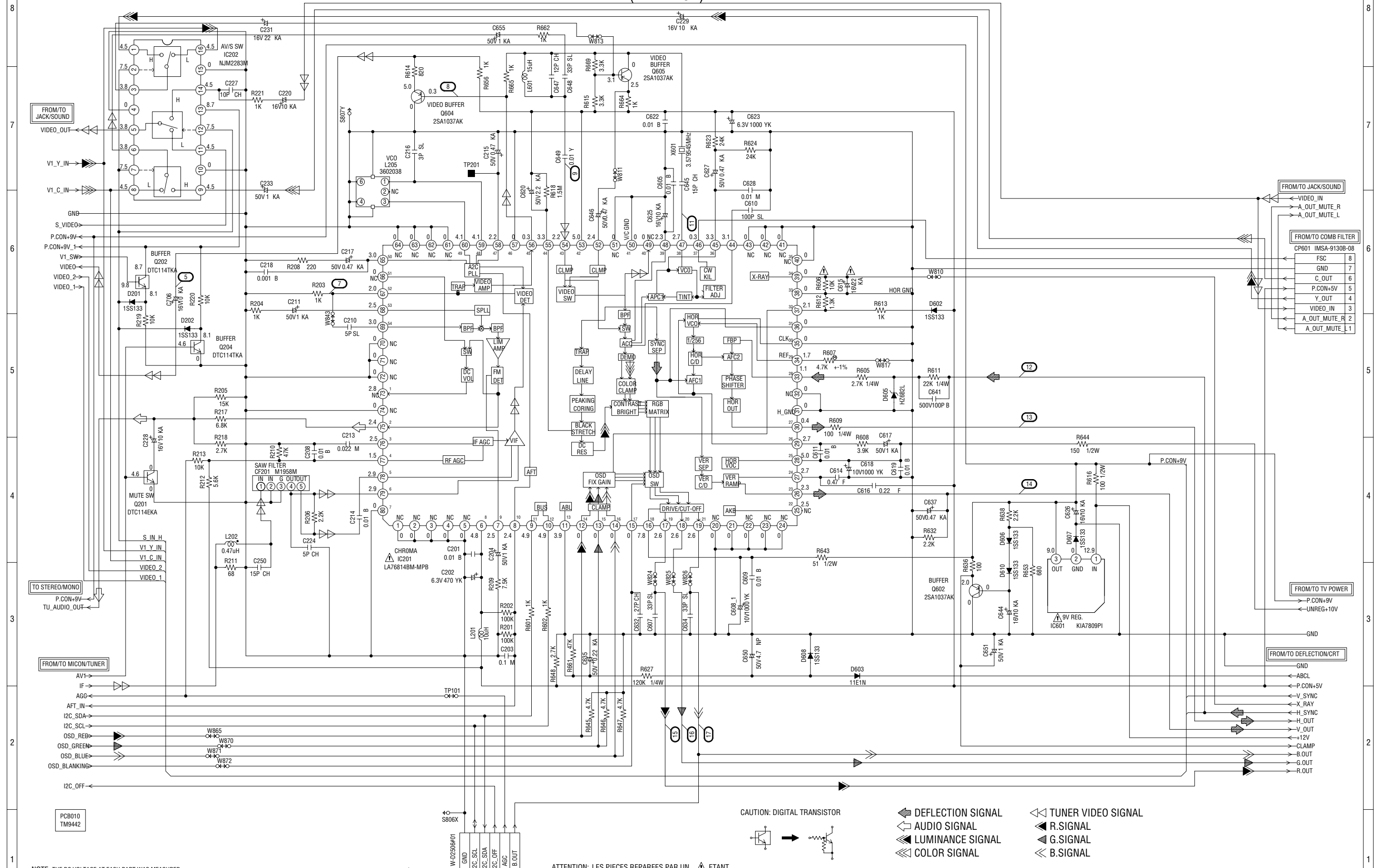
ATTENTION: LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION: DIGITAL TRANSISTOR



- TUNER VIDEO SIGNAL
- R.SIGNAL
- G.SIGNAL
- B.SIGNAL
- DEFLECTION SIGNAL

CHROMA SCHEMATIC DIAGRAM (MAIN PCB)

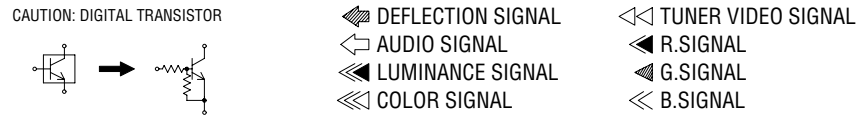


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

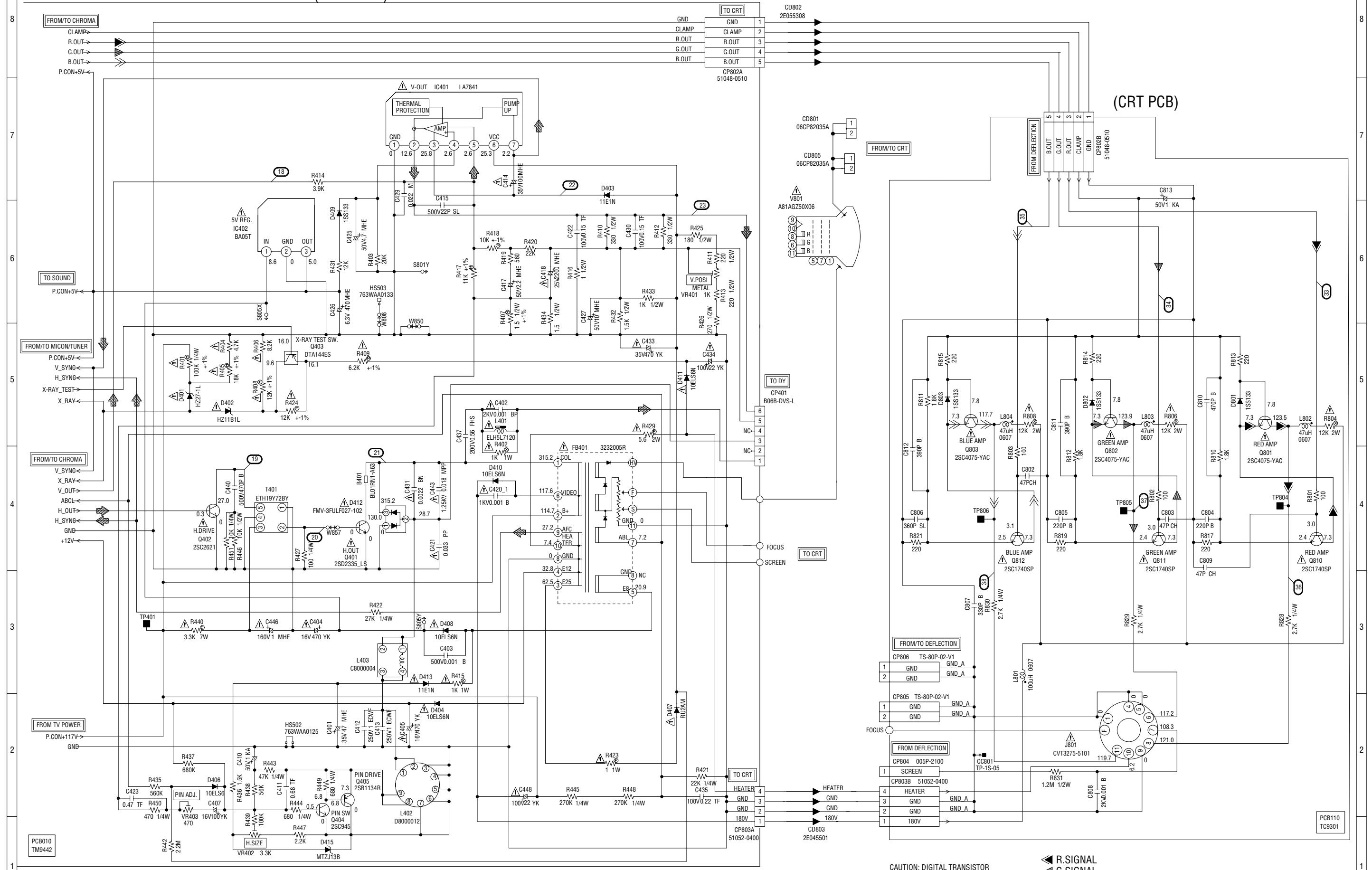
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIÈCES.

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



(MAIN PCB) DEFLECTION/CRT 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.

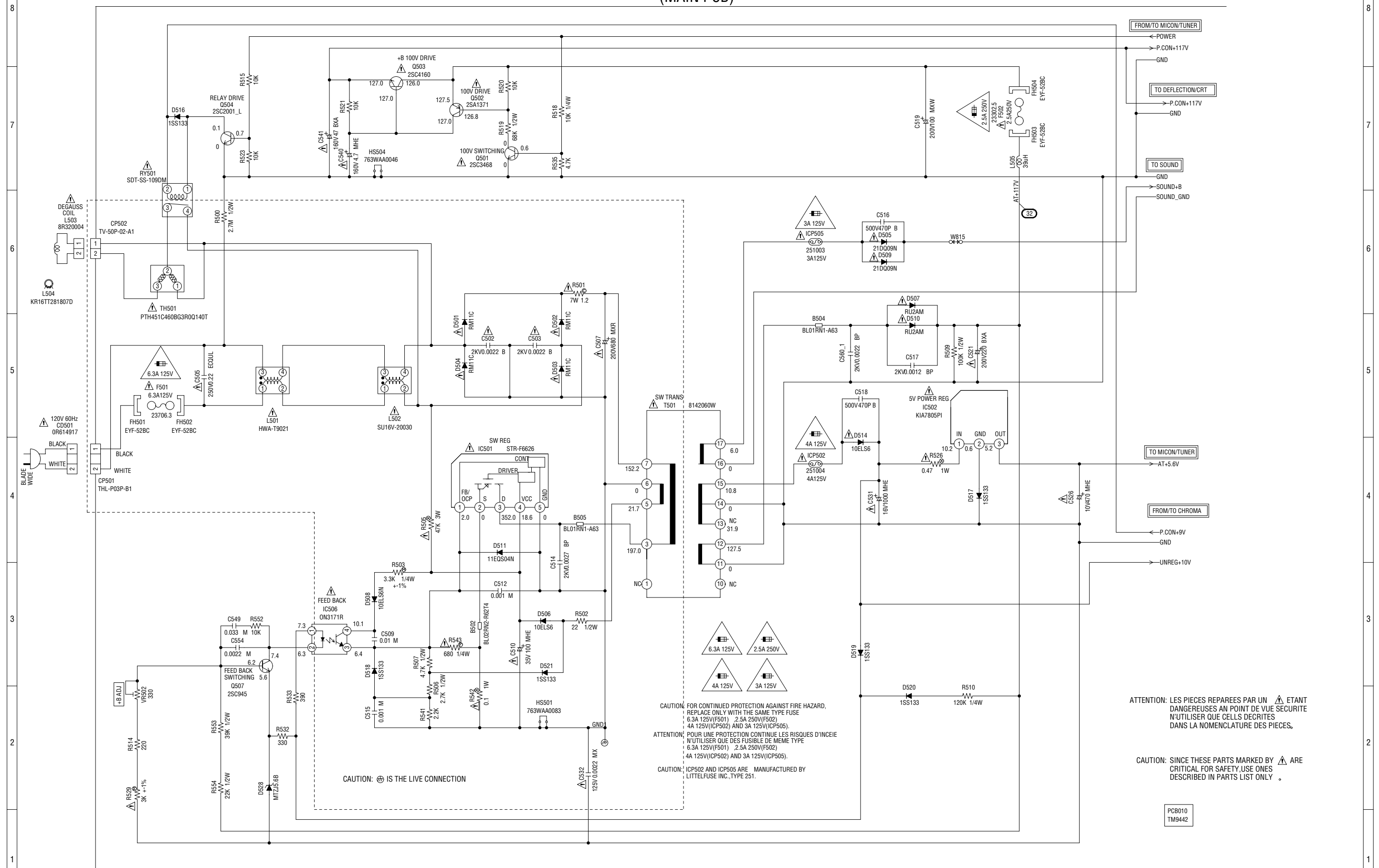
CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIÈCES RÉPARÉES PAR UN Δ ÉTANT DANGEREUSES AN POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION: DIGITAL TRANSISTOR



TV POWER SCHEMATIC DIAGRAM (MAIN PCB)



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: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE
 6.3A 125V(F501) 2.5A 250V(F502)
 4A 125V(ICP502) AND 3A 125V(ICP505).

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLES DE MEME TYPE
 6.3A 125V(F501) 2.5A 250V(F502)
 4A 125V(ICP502) AND 3A 125V(ICP505).

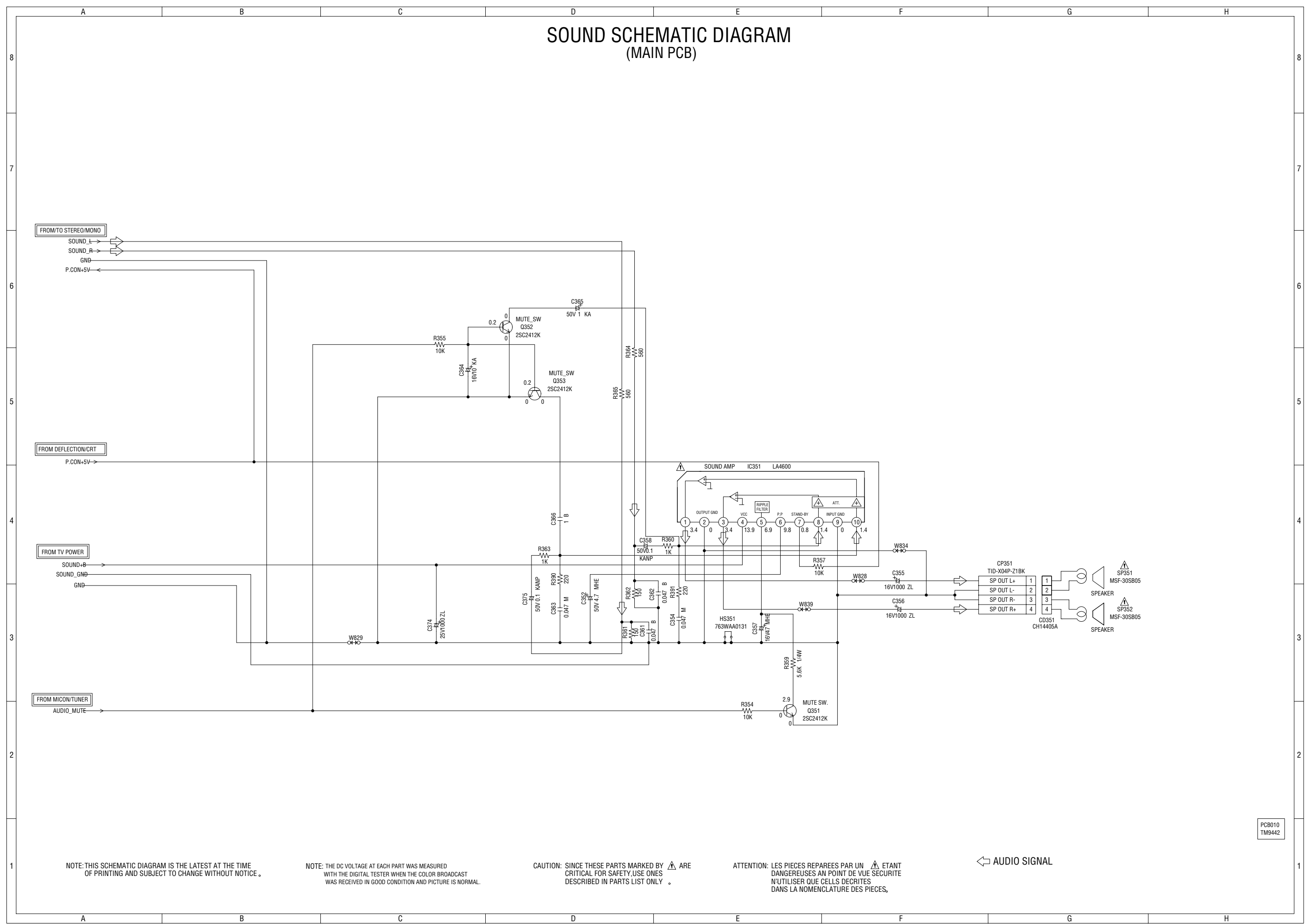
CAUTION: ICP502 AND ICP505 ARE MANUFACTURED BY LITTELFUSE INC., TYPE 251.

ATTENTION: LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

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

PCB010
TM9442

SOUND SCHEMATIC DIAGRAM (MAIN PCB)



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.

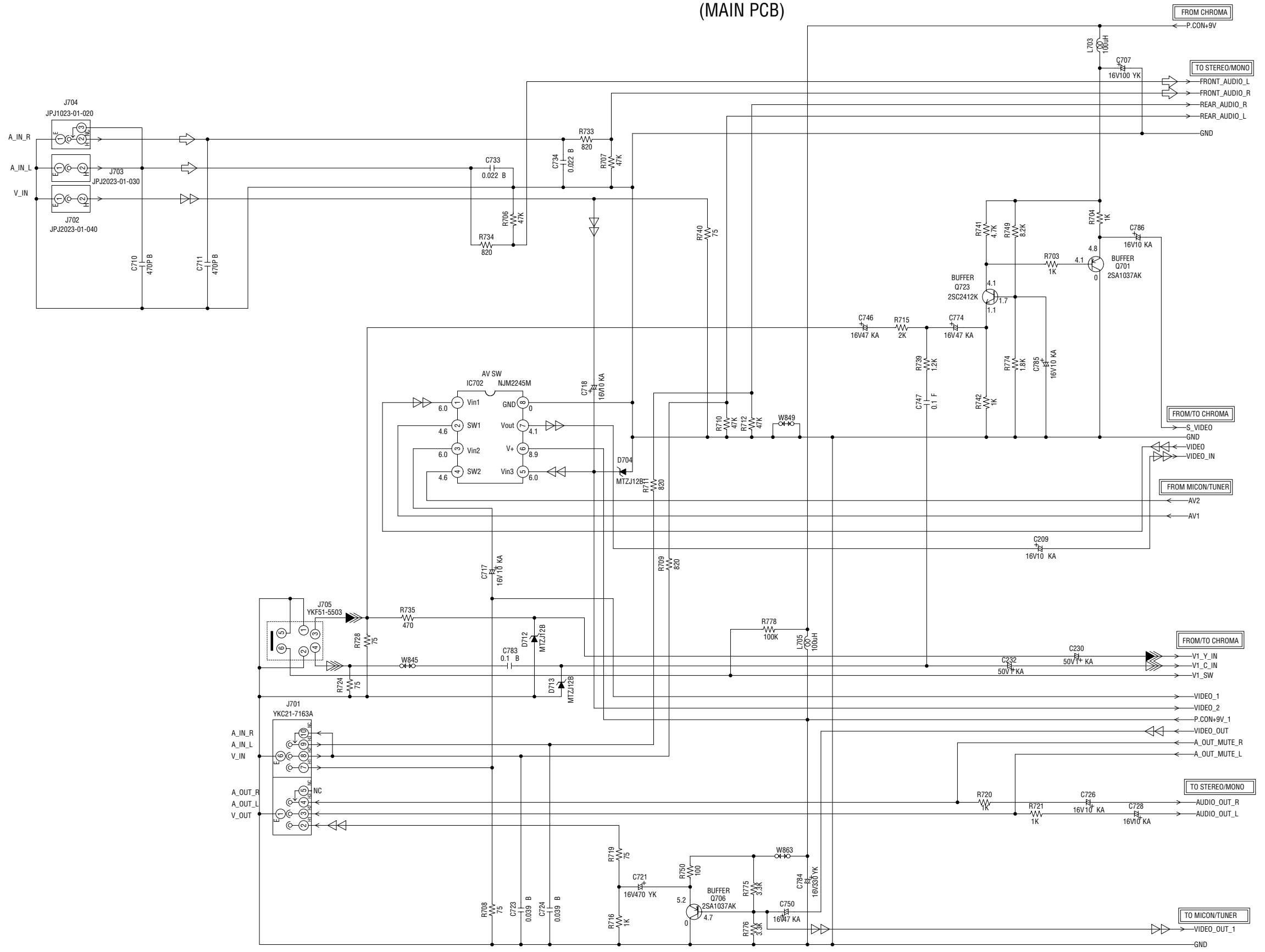
CAUTION: SINCE THESE PARTS MARKED BY \triangle ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN \triangle ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

\triangle AUDIO SIGNAL

PCB010
TM9442

JACK/SOUND SCHEMATIC DIAGRAM (MAIN PCB)



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.

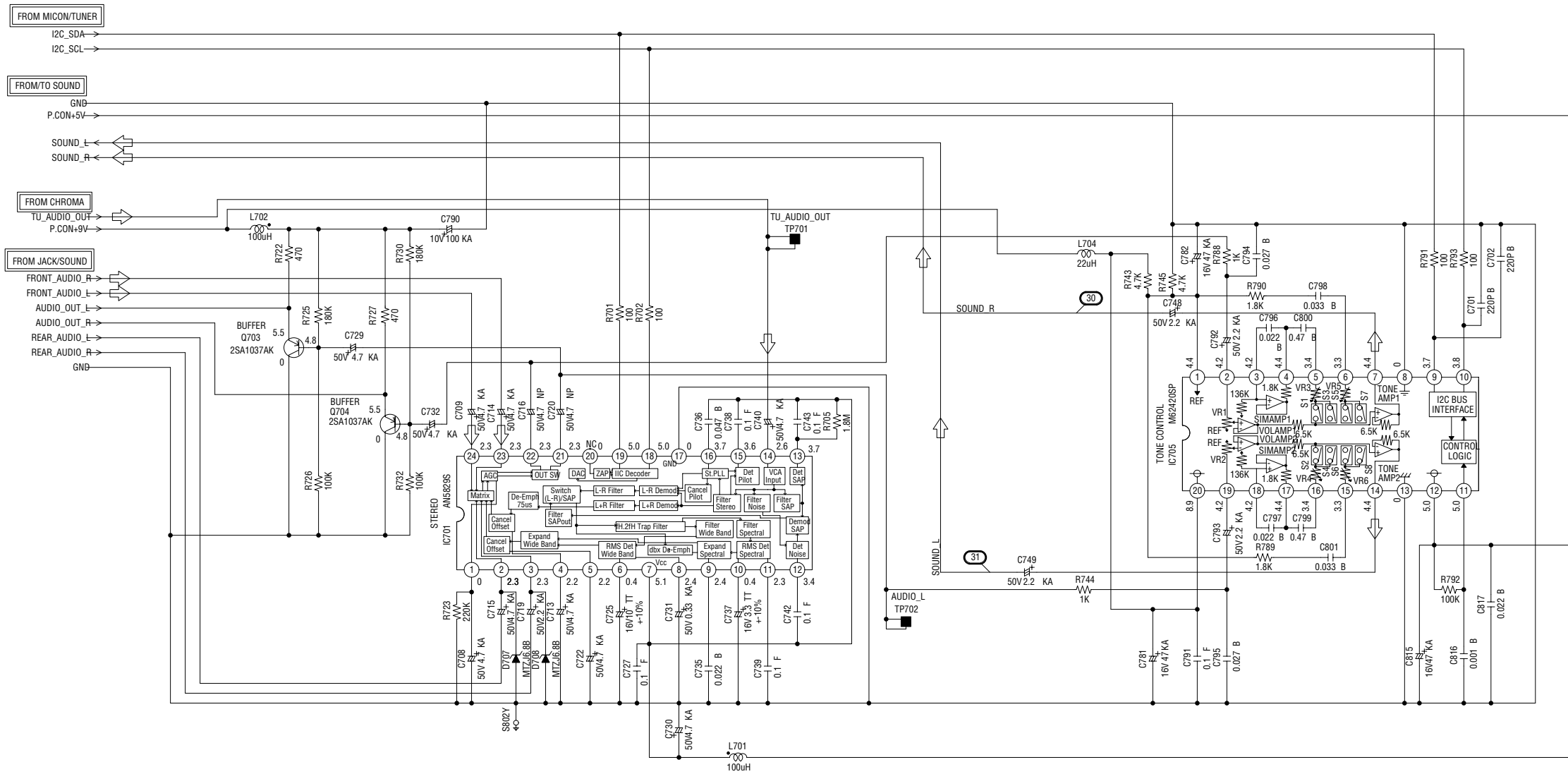
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLS DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

- AUDIO SIGNAL
- TUNER VIDEO SIGNAL
- LUMINANCE SIGNAL
- COLOR SIGNAL

PCB010
TM9442

STEREO/MONO SCHEMATIC DIAGRAM (MAIN PCB)



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

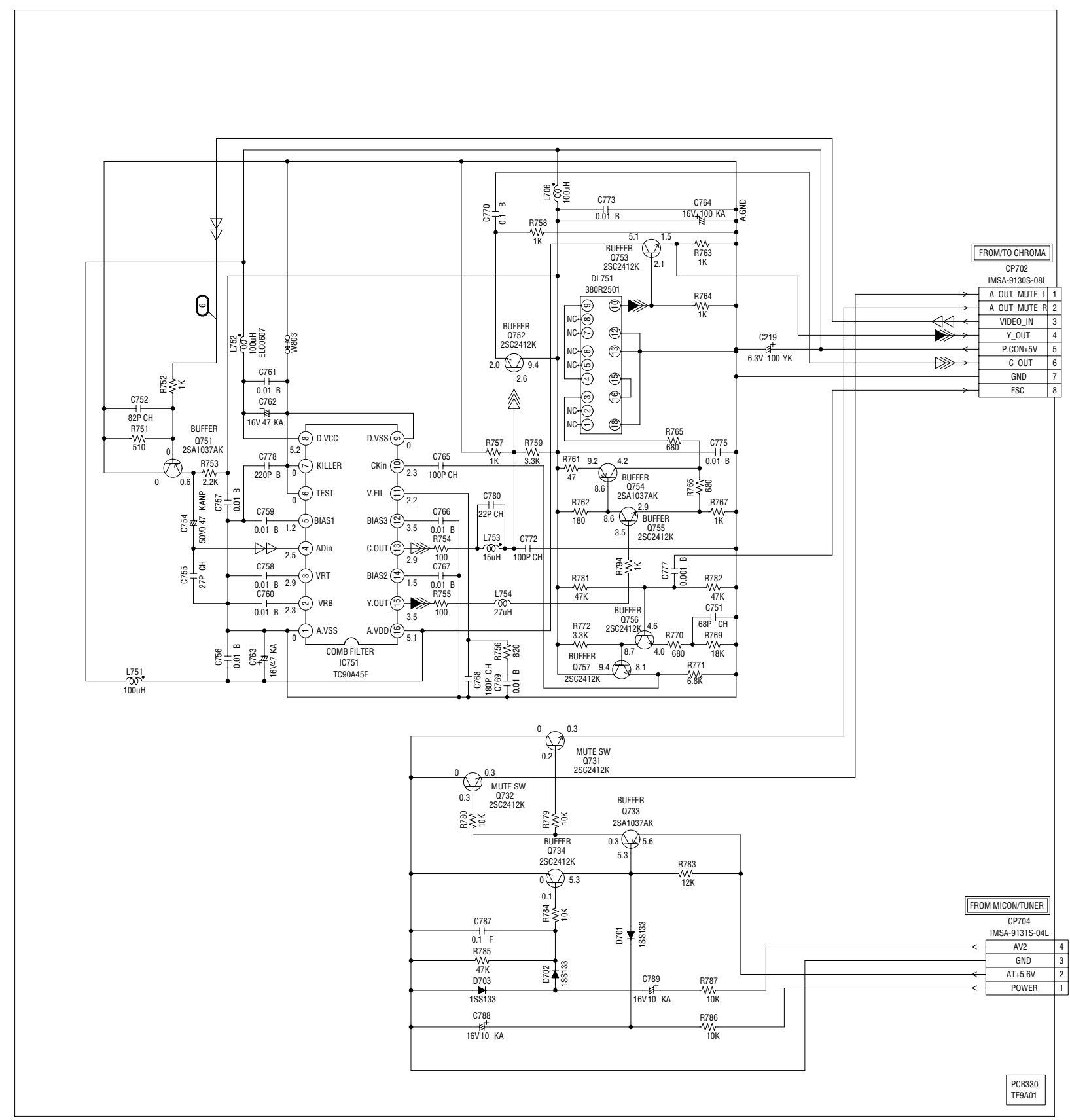
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

← AUDIO SIGNAL

PC8010
TM9442

COMB/FILTER SCHEMATIC DIAGRAM

(COMB PCB)



FROM/TO CHROMA	
CP702	IMSA-9130S-08L
A_OUT_MUTE_L	1
A_OUT_MUTE_R	2
VIDEO_IN	3
Y_OUT	4
P.CON+5V	5
C_OUT	6
GND	7
FSC	8

FROM MICON/TUNER	
CP704	IMSA-9131S-04L
AV2	4
GND	3
AT+5.6V	2
POWER	1

TUNER VIDEO SIGNAL
 LUMINANCE SIGNAL
 COLOR SIGNAL

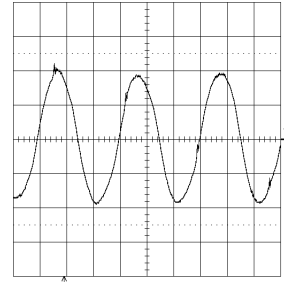
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

PCB330
TE9A01

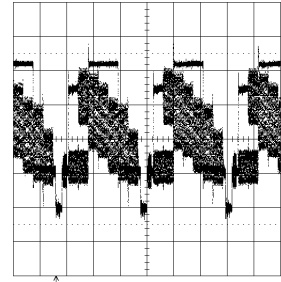
WAVEFORMS

MICON/TUNER

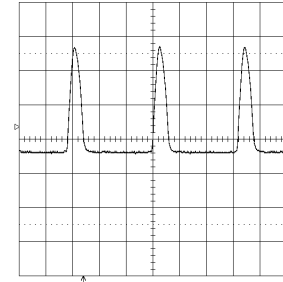


① 0.5V 10 μ s/div

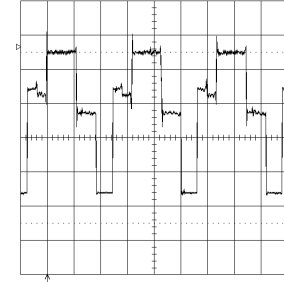
COMB/FILTER



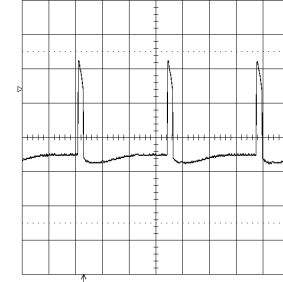
⑥ 0.5V 20 μ s/div



⑫ 10V 20 μ s/div

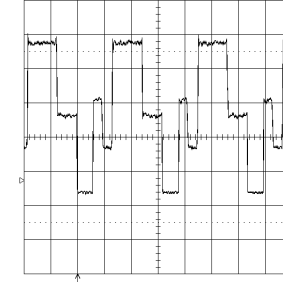


⑰ 1V 20 μ s/div

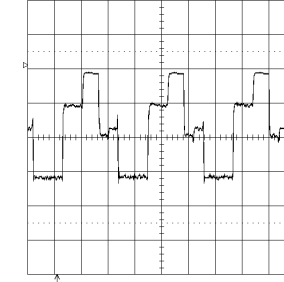


⑳ 10V 5ms/div

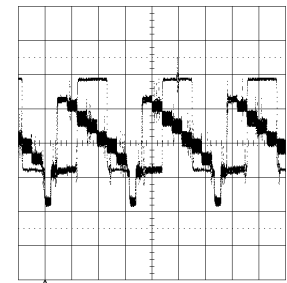
DEFLECTION/CRT



⑳ 1V 20 μ s/div

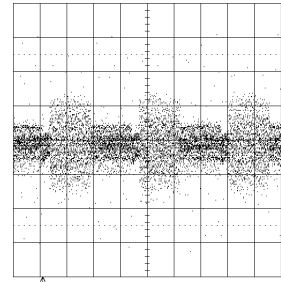


㉔ 50V 20 μ s/div

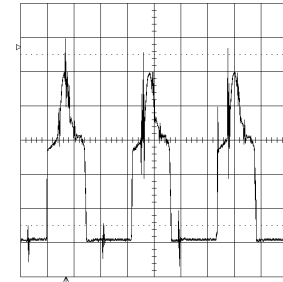


② 0.5V 20 μ s/div

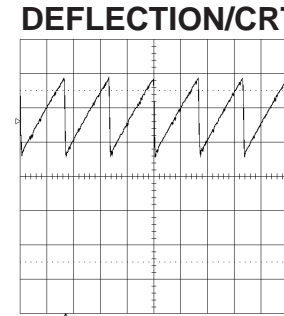
CHROMA



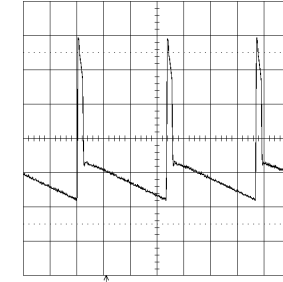
⑦ 200mV 5ms/div



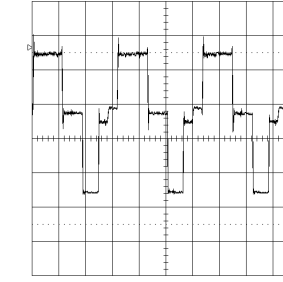
⑬ 200mV 20 μ s/div



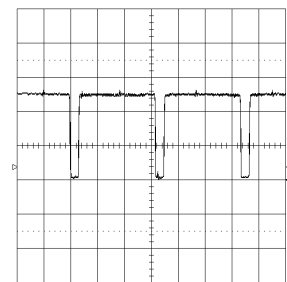
⑱ 0.5V 10ms/div



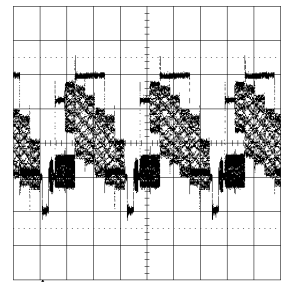
㉓ 10V 5ms/div



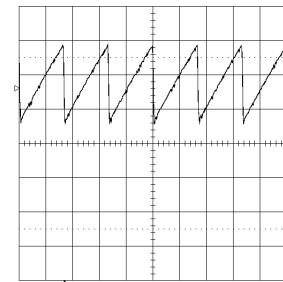
㉔ 1V 20 μ s/div



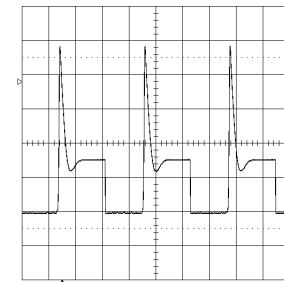
③ 2V 20 μ s/div



⑧ 0.5V 20 μ s/div

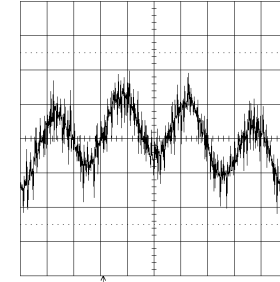


⑭ 0.5V 10ms/div

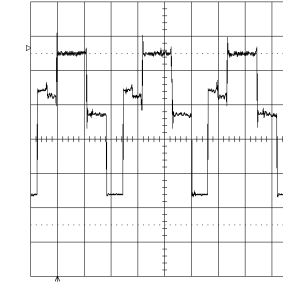


⑲ 50V 20 μ s/div

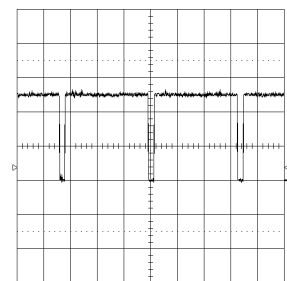
STEREO/MONO



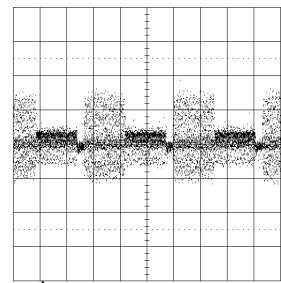
⑳ 50mV 0.2ms/div



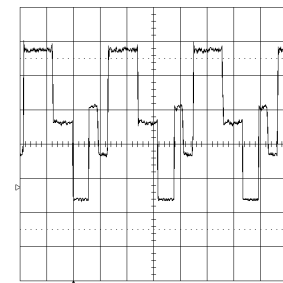
㉕ 1V 20 μ s/div



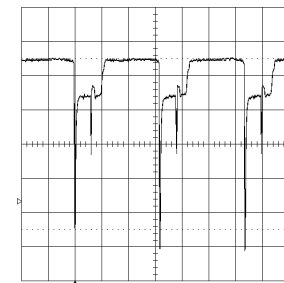
④ 2V 5ms/div



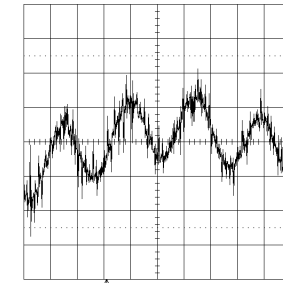
⑨ 50mV 5ms/div



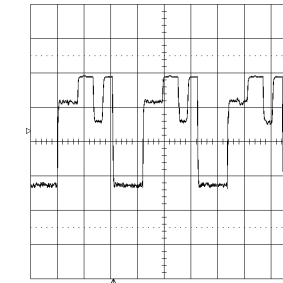
⑮ 1V 20 μ s/div



㉐ 2V 20 μ s/div

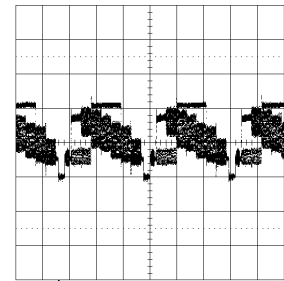


㉑ 50mV 0.2ms/div

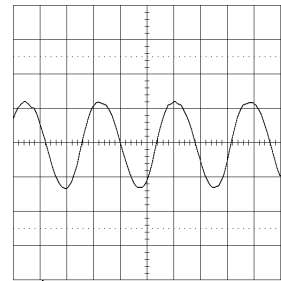


㉖ 50V 20 μ s/div

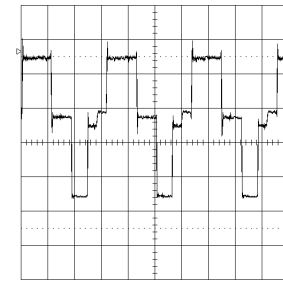
CHROMA



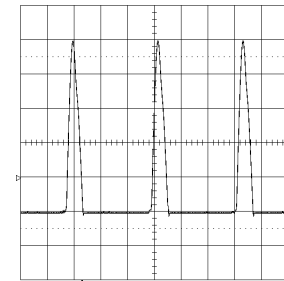
⑤ 0.5V 20 μ s/div



⑪ 100mV 0.1 μ s/div

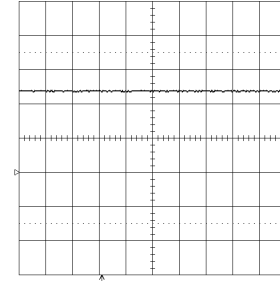


⑯ 1V 20 μ s/div

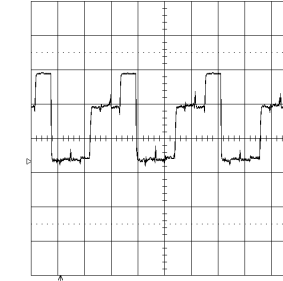


㉑ 200V 20 μ s/div

TV POWER



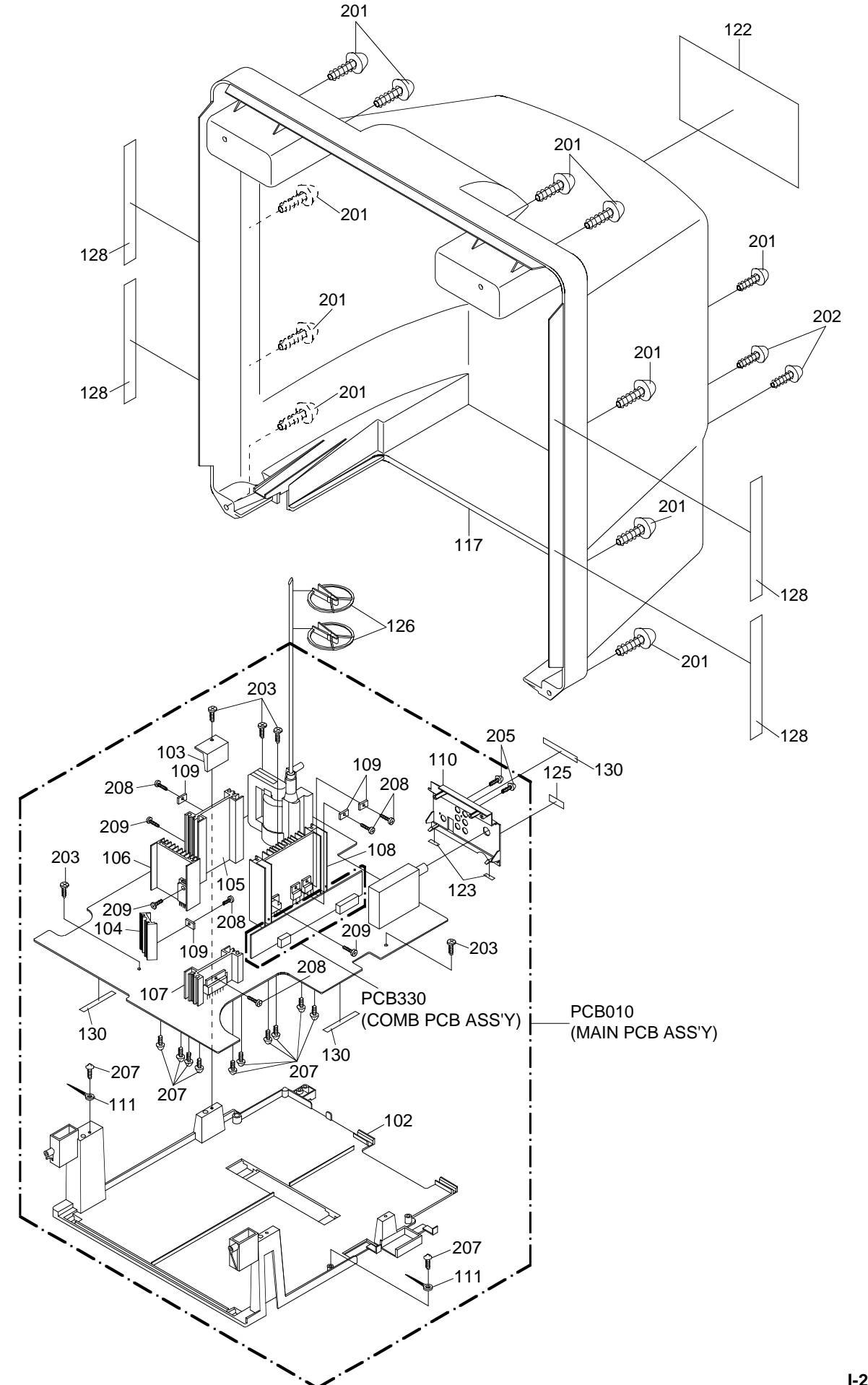
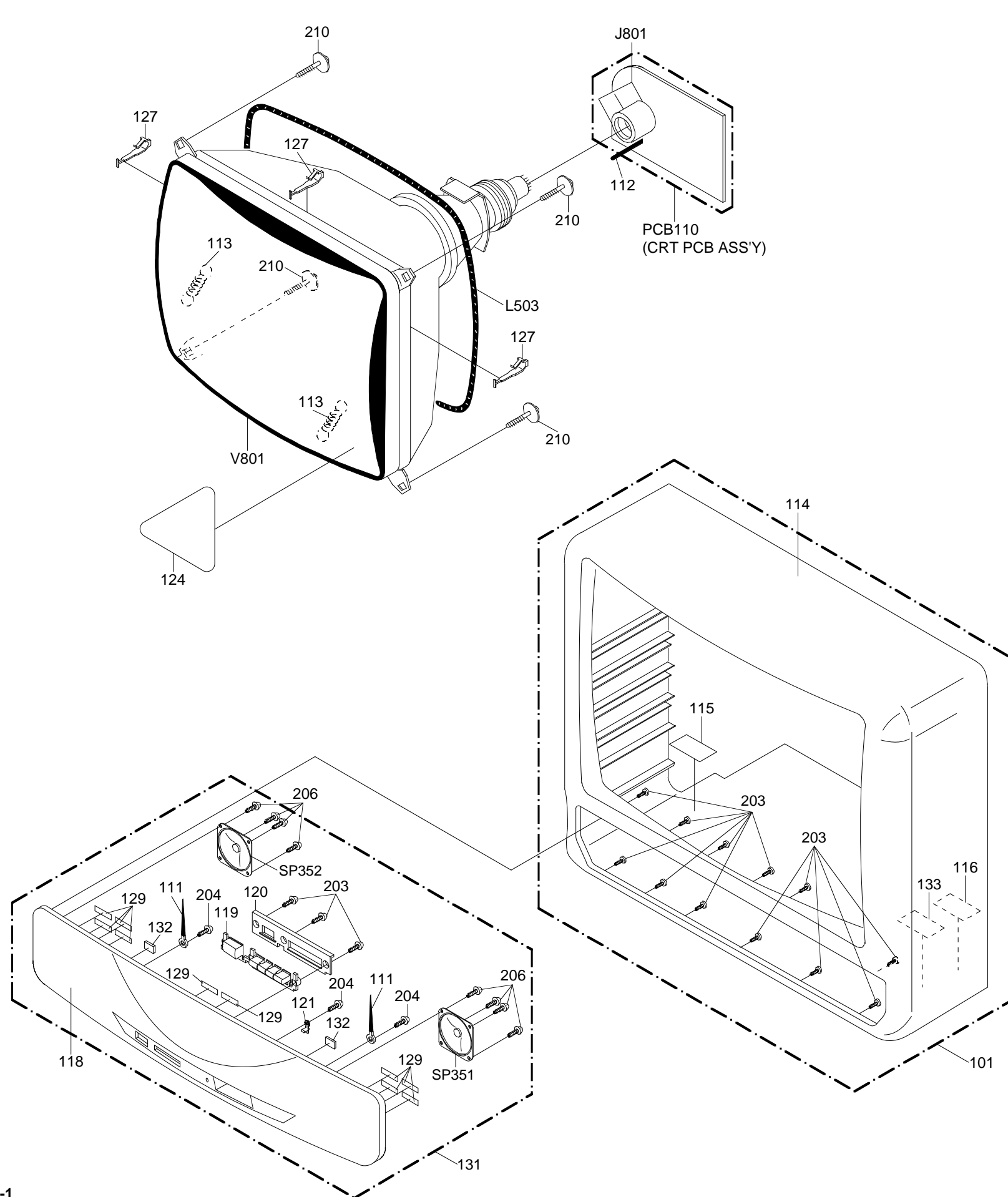
㉒ 50V 0.2ms/div



㉗ 50V 20 μ s/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	A3I401B720	CABINET,FRONT ASS'Y
102	761WPA0184	HOLDER,DECK
103	761WPA0185	HOLDER,M/PCB
104	----	HEAT SINK
105	----	HEAT SINK
106	----	HEAT SINK
107	----	HEAT SINK
108	----	HEAT SINK
109	----	METAL SPACER
110	771WPA0238	PLATE,JACK
111	8995034000	CORD CLIP UL CO.
112	----	COATING CLIP
113	741WUA0016	SPRING,EARTH
114	701APJ0079	CABINET,FRONT
115	7240001041	SHEET,CSA WARNING
116	7230006856	SHEET,CAUTION
117	702APA0110	CABINET,BACK
118	711WPJ0036	PANEL,FRONT
119	735WPA0443	BUTTON,FRAME
120	735WPA0444	BUTTON,BASE
121	713WPA0082	GUIDE,REMOCON
122	722A080006	SHEET,RATING
123	800WQ00030	FELT SHEET 12x20xT0.5
124	7230006935	FILM,DECORATION
125	724WNA0007	SHEET,PVC
126	759WPA0006	HOLDER,ANODE WIRE
127	762WPA0010	HOLDER,CRT WIRE
128	800WQ00038	FELT SHEET
129	800WQ00052	FELT SHEET
130	800WQ00044	FELT SHEET
131	A3I401B890	PANEL ASS'Y
132	800WFA0031	CUSHION 30x14xT3
133	7220001109	SHEET,HWC
201	8117540B04	SCREW,TAPPING(B0) TRUSS 4x20
202	8110630A24	SCREW,TAP TITE(P) BRAZIER 3x12
203	8110630A04	SCREW,TAP TITE(P) BRAZIER 3x10
204	8110630804	SCREW,TAP TITE(P) BRAZIER 3x8
205	8110230A02	SCREW,TAP TITE(P) BIND 3x10
206	8110330A04	SCREW,TAP TITE(P) FLAT 3x10
207	8109630802	SCREW,TAP TITE(B) BRAZIER 3x8
208	810A130804	SCREW/WASHER(A) M3x8
209	810B130A04	SCREW/WASHER(B) M3x10
210	8111J50D05	SCREW,TAPPING (A) GW22 5x35
---	791AHA0020	LAMIFILM,BAG
---	792AHA0079	PACKAGE,TOP
---	792AHA0080	PACKAGE,BOTTOM
---	793ACD0476	GIFT BOX
---	JB5K0100	POLY BAG
---	J3I40101	INSTRUCTION BOOK

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION		
RESISTORS			DIODES				
△ R001	R3X181273J	R,METAL OXIDE	27K OHM 1W	△ D402	D94TA11B11	DIODE,ZENER	HZ11B1L TD
R390	R001T6221J	RC	220 OHM 1/6W	D403	D28T11E1N1	DIODE,SILICON	11E1N-TA1B2
R391	R001T6221J	RC	220 OHM 1/6W	△ D404	D28TELS6N6	DIODE,RECTIFIER	10ELS6N-TA1B2
△ R401	R4X5T4104F	R,METAL	100K OHM 1/4W	D406	D28T10ELS6	DIODE,RECTIFIER	10ELS6TA1B2
△ R402	R3K181102J	R,METAL	1K OHM 1W	△ D407	D2BTRU2AM0	DIODE,SILICON	RU2AM V1
△ R404	R801R7472J	RC	4.7K OHM 1/10W	△ D408	D28TELS6N6	DIODE,RECTIFIER	10ELS6N-TA1B2
△ R405	R4X5T6183F	R,METAL	18K OHM 1/6W	D409	D1VT001330	DIODE,SILICON	1SS133T-77
△ R406	R801R7822J	RC	8.2K OHM 1/10W	△ D410	D28TELS6N6	DIODE,RECTIFIER	10ELS6N-TA1B2
△ R407	R426T21R5F	R,METAL	1.5 OHM 1/2W	△ D411	D28TELS6N6	DIODE,RECTIFIER	10ELS6N-TA1B2
△ R408	R4X5T6123F	R,METAL	12K OHM 1/6W	D412	DCBFMV3FU0	DIODE	FMV-3FULF027-102
△ R409	R4X5T6622F	R,METAL	6.2K OHM 1/6W	△ D413	D28T11E1N1	DIODE,SILICON	11E1N-TA1B2
△ R415	R3X181102J	R,METAL OXIDE	1K OHM 1W	D415	D97U01301B	DIODE,ZENER	MTZJ13B T-77
△ R421	R001T4223J	RC	22K OHM 1/4W	△ D501	D2BTRM11C0	DIODE,RECTIFIER	RM11C
△ R423	R65581010J	R,FUSE	1 OHM 1W	△ D502	D2BTRM11C0	DIODE,RECTIFIER	RM11C
△ R424	R4X5T6123F	R,METAL	12K OHM 1/6W	△ D503	D2BTRM11C0	DIODE,RECTIFIER	RM11C
△ R429	R6558A5R6J	R,FUSE	5.6 OHM 2W	△ D504	D2BTRM11C0	DIODE,RECTIFIER	RM11C
△ R434	R0L2U21R5J	RC	1.5 OHM 1/2W	△ D505	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
△ R440	R5X2CE332J	R,CEMENT	3.3K OHM 7W	D506	D28T10ELS6	DIODE,RECTIFIER	10ELS6TA1B2
R442	R001T6225J	RC	2.2M OHM 1/6W	△ D507	D2BTRU2AM0	DIODE,SILICON	RU2AM V1
R500	ROG3K2275K	RC	2.7M OHM 1/2W +-10%	D508	D28TELS6N6	DIODE,RECTIFIER	10ELS6N-TA1B2
△ R501	R5X2CE1R2J	R,CEMENT	1.2 OHM 7W	△ D509	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
△ R505	R3X28B473J	R,METAL OXIDE	47K OHM 3W	△ D510	D2BTRU2AM0	DIODE,SILICON	RU2AM V1
△ R526	R3X181R47J	R,METAL	0.47 OHM 1W	D511	D28TQS04N0	DIODE,SCHOTTKY	11EQS04N-TA1B2
△ R529	R4X5T6302F	R,METAL	3K OHM 1/6W	△ D514	D28X10ELS6	DIODE,RECTIFIER	10ELS6-TA2B5
△ R542	R336810R1J	R,METAL	0.1 OHM 1W	D516	D1VT001330	DIODE,SILICON	1SS133T-77
△ R606	R801R7103J	RC	10K OHM 1/10W	D517	D1VT001330	DIODE,SILICON	1SS133T-77
△ R804	R3X18A123J	R,METAL OXIDE	12K OHM 2W	D518	D1VT001330	DIODE,SILICON	1SS133T-77
△ R806	R3X18A123J	R,METAL OXIDE	12K OHM 2W	D519	D1VT001330	DIODE,SILICON	1SS133T-77
△ R808	R3X10A123J	R,METAL	12K OHM 2W	D520	D1VT001330	DIODE,SILICON	1SS133T-77
				D521	D1VT001330	DIODE,SILICON	1SS133T-77
				D528	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
				D602	D1VT001330	DIODE,SILICON	1SS133T-77
				D603	D28T11E1N1	DIODE,SILICON	11E1N-TA1B2
				D605	D94TA6RB12	DIODE,ZENER	HZ6B2L TD
				D606	D1VT001330	DIODE,SILICON	1SS133T-77
				D607	D1VT001330	DIODE,SILICON	1SS133T-77
				D608	D1VT001330	DIODE,SILICON	1SS133T-77
				D610	D1VT001330	DIODE,SILICON	1SS133T-77
				D701	D1VT001330	DIODE,SILICON	1SS133T-77
				D702	D1VT001330	DIODE,SILICON	1SS133T-77
				D703	D1VT001330	DIODE,SILICON	1SS133T-77
				D704	D97001201B	DIODE,ZENER	MTZJ12B
				D707	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
				D708	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
				D712	D97U01201B	DIODE,ZENER	MTZJ12B T-77
				D713	D97U01201B	DIODE,ZENER	MTZJ12B T-77
				D801	D1VT001330	DIODE,SILICON	1SS133T-77
				D802	D1VT001330	DIODE,SILICON	1SS133T-77
				D803	D1VT001330	DIODE,SILICON	1SS133T-77
CAPACITORS							
C354	P1S300473J	CP	0.047 UF 50V				
C355	E62FF2102M	CE	1000 UF 16V				
C356	E62FF2102M	CE	1000 UF 16V				
C363	P1S300473J	CP	0.047 UF 50V				
C374	E62FF3102M	CE	1000 UF 25V				
△ C402	C01BBP713K	CC	0.001 UF 2KV BP				
△ C404	E02LT2471M	CE	470 UF 16V				
△ C405	E02LT2471M	CE	470 UF 16V				
C412	P411F3105J	CMPP	1 UF 250 V ECWF				
C413	P411F3105J	CMPP	1 UF 250 V ECWF				
△ C414	E5EZF4101M	CE	100 UF 35V				
△ C418	E5EZF3222M	CE	2200 UF 25V				
C421	P3N1F5333J	CPP	0.033 UF 630V				
C431	C034BN7H3K	CC	0.0022UF 2KV BN				
△ C433	E02LF4471M	CE	470 UF 35V				
△ C434	E02LT8220M	CE	22 UF 100V				
C437	P447F2564J	CMPP	0.56 UF 200V FHS				
△ C443	P4N8FJ183H	CMPP	C 0.018 UF 1.25KV				
△ C446	E5EZTB010M	CE	1 UF 160V				
△ C448	E02LT8220M	CE	22 UF 100V				
C501	E0EL02471M	CE	470 UF 16V				
△ C502	C13HB07H3K	CC	0.0022UF 2KV B				
△ C503	C13HB07H3K	CC	0.0022UF 2KV B				
△ C505	P2122B224M	CMPP	0.22 UF 250V ECQUL				
△ C507	E52SFC681M	CE	680 UF 200V				
△ C510	E5EZF4101M	CE	100 UF 35V				
C514	C01BBP7K3K	CC	0.0027UF 2KV BP				
C517	C01BBP7B3K	CC	0.0012UF 2KV BP				
C519	E52E0C101M	CE	100 UF 200V				
△ C521	E62D0C221M	CE	220 UF 200V				
△ C526	E5EZF1471M	CE	470 UF 10V				
△ C531	E5EZF2102M	CE	1000 UF 16V				
C532	C034E0JH3M	CC	0.0022UF 125V MX				
△ C540	E5EZF4B47M	CE	4.7 UF 160V				
△ C541	E62DFB470M	CE	47 UF 160V				
C560	C01BBP7H3K	CC	0.0022UF 2KV BP				
△ C615	E50HU2220M	CE	22 UF 16 V				
C707	E0EL02101M	CE	100 UF 16V				
C808	C130B0713K	CC	0.001 UF 2KV B				
DIODES							
D001	D94TA30013	DIODE,ZENER	HZ30-3L TD				
D101	D1VT001330	DIODE,SILICON	1SS133T-77				
D102	D28T11E1N1	DIODE,SILICON	11E1N-TA1B2				
D103	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77				
D201	D1VT001330	DIODE,SILICON	1SS133T-77				
D202	D1VT001330	DIODE,SILICON	1SS133T-77				
△ D401	D94TA27011	DIODE,ZENER	HZ27-1L TD				
				IC101	I53F53041A	IC	OEC3041A
				IC104	I9UJ0T600C	IC	PST600C
				IC199	A31401B015	IC	M24C01-BN6
				△ IC201	I03FE814B0	IC	LA76814BM-MPB
				IC202	I0QF022830	IC	NJM2283M
				△ IC351	I03SP46000	IC	LA4600
				△ IC401	I03SD78410	IC	LA7841
				△ IC402	I07K9A05T0	IC	BA05T
				△ IC501	I2BT066260	IC	STR-F6626
				△ IC502	I1KA978050	IC	KIA7805PI
				△ IC506	000210001R	PHOTO COUPLER	ON3171R
				△ IC601	I1KA978090	IC	KIA7809PI
				IC701	I01FF58290	IC	AN5829S
				IC702	I0QF02245M	IC	NJM2245M
				IC705	I06DF62420	IC	M62420SP
				IC751	I05FE90A45	IC	TC90A45F
TRANSISTORS							
				Q101	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S
				Q102	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S
				Q103	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S
				Q104	TNYJ050001	COMPOUND TRANSISTOR	DTC114TKAT146
				Q105	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S
				Q201	TNYJ050001	COMPOUND TRANSISTOR	DTC114EKAT146
				Q202	TNYJ050001	COMPOUND TRANSISTOR	DTC114TKAT146
				Q204	TNYJ050001	COMPOUND TRANSISTOR	DTC114TKAT146
				Q351	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S
				Q352	T8YJ2412K0	TRANSISTOR,SILICON	2SC2412KT146 R,S

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
TRANSISTORS			JACKS		
Q353	T8YJ2412K0	TRANSISTOR,SILICON	△ J801	066C130017	SOCKET,CATHODE RAY TUBE CVT3275-5101
Q401	TDKU023350	TRANSISTOR,SILICON	SWITCHES		
△ Q402	TC3Q026210	TRANSISTOR,SILICON	SW101	0504201T31	SWITCH,TACT SKHVBED010
Q403	TPYTD03001	COMPOUND TRANSISTOR	SW102	0504201T31	SWITCH,TACT SKHVBED010
Q404	TCST009450	TRANSISTOR,SILICON	SW103	0504201T31	SWITCH,TACT SKHVBED010
Q405	TB3001134R	TRANSISTOR,SILICON	SW104	0504201T31	SWITCH,TACT SKHVBED010
△ Q501	TC3T034680	TRANSISTOR,SILICON	SW105	0504201T31	SWITCH,TACT SKHVBED010
△ Q502	TA3T1371A0	TRANSISTOR,SILICON	VARIABLE RESISTORS		
△ Q503	TC304160E0	TRANSISTOR,SILICON	VR401	V126213BT2	VOLUME,SEMI FIXED RH0684C13R
Q504	TCST02001L	TRANSISTOR,SILICON	VR402	V1262L3BT6	VOLUME,SEMI FIXED RH063LCN3R
Q507	TCST009450	TRANSISTOR,SILICON	VR403	V1262Q2BT6	VOLUME,SEMI FIXED RH063LCS2R
Q602	T6YJ1037K0	TRANSISTOR,SILICON	VR502	V1263L2BTC	VOLUME,SEMI FIXED RH063MCN2R
Q604	T6YJ1037K0	TRANSISTOR,SILICON	P.C.BOARD ASSEMBLIES		
Q605	T6YJ1037K0	TRANSISTOR,SILICON	PCB010	A3I403B01A	PCB ASS'Y TM9442A
Q701	T6YJ1037K0	TRANSISTOR,SILICON	PCB110	A3I402B11A	PCB ASS'Y TC9301A
Q703	T6YJ1037K0	TRANSISTOR,SILICON	PCB330	A3I402B33A	PCB ASS'Y TE9A01A
Q704	T6YJ1037K0	TRANSISTOR,SILICON	MISCELLANEOUS		
Q706	T6YJ1037K0	TRANSISTOR,SILICON	B401	024AT03655	CORE,BEADS BL01RN1-A63T6
Q723	T8YJ2412K0	TRANSISTOR,SILICON	B502	024AT03482	CORE,BEADS BL02RN2-R62T4
Q731	T8YJ2412K0	TRANSISTOR,SILICON	B504	024AT03655	CORE,BEADS BL01RN1-A63T6
Q732	T8YJ2412K0	TRANSISTOR,SILICON	B505	024AT03655	CORE,BEADS BL01RN1-A63T6
Q733	T6YJ1037K0	TRANSISTOR,SILICON	CD351	06CH14405A	CORD,CONNECTOR CH14405A
Q734	T8YJ2412K0	TRANSISTOR,SILICON	△ CD501	120R614917	CORD,AC 0R614917
Q751	T6YJ1037K0	TRANSISTOR,SILICON	CD801	06CP82035A	CORD,CONNECTOR CP82035A
Q752	T8YJ2412K0	TRANSISTOR,SILICON	CD802	122E055308	CORD,CONNECTOR 2E055308
Q753	T8YJ2412K0	TRANSISTOR,SILICON	CD803	122E045501	CORD,JUMPER 2E045501
Q754	T6YJ1037K0	TRANSISTOR,SILICON	CD805	06CP82035A	CORD,CONNECTOR CP82035A
Q755	T8YJ2412K0	TRANSISTOR,SILICON	CF201	102E245R71	FILTER,SAW M1958M
Q756	T8YJ2412K0	TRANSISTOR,SILICON	CP101	069Q160058	CONNECTOR PCB SIDE W-D2506#01
Q757	T8YJ2412K0	TRANSISTOR,SILICON	CP351	069W14T290	CONNECTOR PCB SIDE TID-X04P-Z1BK
△ Q801	TC3Q040750	TRANSISTOR,SILICON	CP401	069X460029	CONNECTOR PCB SIDE B06B-DVS-L
△ Q802	TC3Q040750	TRANSISTOR,SILICON	CP501	0697320039	CORD,UX CONNECTOR THL-P03P-B1
△ Q803	TC3Q040750	TRANSISTOR,SILICON	CP502	069W420029	CONNECTOR PCB SIDE TV-50P-02-A1
△ Q810	TCYT1740S0	TRANSISTOR,SILICON	CP601	069J180038	CONNECTOR PCB SIDE IMSA-9130B-08
△ Q811	TCYT1740S0	TRANSISTOR,SILICON	CP702	069J180048	CONNECTOR PCB SIDE IMSA-9130S-08L
△ Q812	TCYT1740S0	TRANSISTOR,SILICON	CP703	069J140038	CONNECTOR PCB SIDE IMSA-9130B-04
COILS & TRANSFORMERS			CP704	069J140028	CONNECTOR PCB SIDE IMSA-9131S-04L
L201	021LA6100K	COIL	CP804	069W010010	CONNECTOR PCB SIDE 005P-2100
L202	021673R47M	COIL	CP805	069W320018	CONNECTOR PCB SIDE TS-80P-02-V1
	02167FR47K	COIL	CP806	069W320018	CONNECTOR PCB SIDE TS-80P-02-V1
L205	0336020388	COIL,VIDEO IFT	CP802A	067R005019	WIRE HOLDER 51048-0510
L401	022100031A	COIL,LINEARITY	CP802B	067R005019	WIRE HOLDER 51048-0510
L402	02D8000012	TIB PIN PHASE COIL	CP803A	067R104019	WIRE HOLDER 51052-0400
L403	02C8000004	SIDE PIN MODURATOR COIL	CP803B	067R104019	WIRE HOLDER 51052-0400
△ L501	029F000065	COIL,LINE FILTER	CUS001	800WF00004	CUSHION-A
△ L502	029X000065	COIL,LINE FILTER	DL751	10380R2501	DELAY EQ 380R2501
△ L503	028R320004	COIL,DEGAUSS	△ F501	081PA6R302	FUSE 23706.3
L504	02A1281872	CORE,TRIDAL	△ F502	080PA2R501	FUSE 23302.5-MB000
L505	021U6D390K	COIL	△ FB401	043232005R	TRANSFORMER,FLYBACK 3232005R
L601	021LA6150K	COIL	FH501	06710T0006	HOLDER,FUSE EYF-52BC
L701	021673101K	COIL	FH502	06710T0006	HOLDER,FUSE EYF-52BC
	02167F101J	COIL	FH503	06710T0006	HOLDER,FUSE EYF-52BC
L702	021673101K	COIL	FH504	06710T0006	HOLDER,FUSE EYF-52BC
	02167F101J	COIL	△ ICP502	083PC04002	MICRO FUSE 251004
L703	021LA6101K	COIL	△ ICP505	083PC03002	MICRO FUSE 251003
L704	021LA6220K	COIL	OS101	077Q014003	REMOTE RECEIVER PIC-28143SY-2
L705	021LA6101K	COIL	△ RY501	0560Q10114	RELAY SDT-SS-109DM
L706	021673101K	COIL	SP351	070W036001	SPEAKER MSF-30SB05
	02167F101J	COIL	SP352	070W036001	SPEAKER MSF-30SB05
L751	021673101K	COIL	△ TH501	DF20G3R0Q0	DEGAUSS ELEMENT PTH451C460BG3R0Q140T
	02167F101J	COIL	TM101	07660CS010	TRANSMITTER SBBD00031A
L752	02167H101K	COIL	△ TU001	0145K00050	TUNER UHF-VHF TECC1040PG31A
L753	021673150K	COIL	△ V801	0985320602	CRT W/DY A81AGZ50X06
	02167F150J	COIL	X101	100C32R803	CRYSTAL DSVT-200
L754	021LA6270K	COIL	X601	100CT3R505	CRYSTAL HC-49/C
L801	02167D101K	COIL	RESISTOR		
L802	02167D470K	COIL	RC..... CARBON RESISTOR		
L803	02167D470K	COIL	CAPACITORS		
L804	02167D470K	COIL	CC..... CERAMIC CAPACITOR		
T401	045019005J	TRANS HORIZONTAL DRIVE	CE..... ALUMI ELECTROLYTIC CAPACITOR		
△ T501	048142060W	TRANSFORMER,SWITCHING	CP..... POLYESTER CAPACITOR		
JACKS			CPP..... POLYPROPYLENE CAPACITOR		
J701	060Q471003	RCA JACK	CPL..... PLASTIC CAPACITOR		
J702	0602401031	RCA JACK	CMP..... METAL POLYESTER CAPACITOR		
J703	0602401032	RCA JACK	CMPL..... METAL PLASTIC CAPACITOR		
J704	0602421013	RCA JACK	CMPP..... METAL POLYPROPYLENE CAPACITOR		
J705	063Q700002	JACK	YKFC21-7163A		
			JPJ2023-01-040		
			JPJ2023-01-030		
			JPJ1023-01-020		
			YKF51-5503		

SPEC.NO.	M3I4-01B
O/R NO.	A993530



MT2325

SERVICE MANUAL

COLOR TELEVISION RECEIVER

**REVISION 1
MFR'S VERSION B**

MFR'S VERSION	SPEAKER
A	MSF-30SB05
B	MSF-30SB05-1

DIFFERENCES

Alteration of SPEAKER.

REF.NO	MFR'S VERSION A		MFR'S VERSION B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
SP351	070W036001	SPEAKER MSF-30SB05	070W036003	SPEAKER MSF-30SB05-1
SP352	070W036001	SPEAKER MSF-30SB05	070W036003	SPEAKER MSF-30SB05-1
R361	R801R7151J	RC 150 OHM 1/10W	R801R7101J	RC 100 OHM 1/10W
R362	R801R7151J	RC 150 OHM 1/10W	R801R7101J	RC 100 OHM 1/10W
PCB010	A3I403B01A	MAIN PCB ASS'Y TM9442A	A3I403B01B	MAIN PCB ASS'Y TM9442A

MAIN PCB's are not interchangeable.

SPEC.NO.	M3I4-01B
O/R NO.	A9X3519