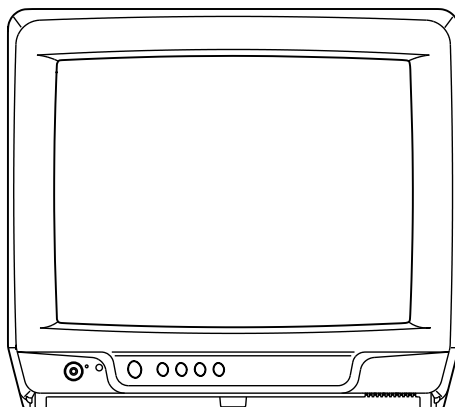


Memorex

MT1136A

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  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
Earphone jack

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

13 inch(335.4mmV):Measured diagonally
Color CRT 90 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

VHF (LOW) 2 ch~ 6 ch

(HIGH) 7 ch~ 13 ch

(CATV) A5 ch~ I ch

J ch~ W+29 ch

GGG ch~ W+84 ch

UHF 14 ch~ 69 ch

Tuning System

Frequency syn.

Voltage syn.

Others

G-8.Preset 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-12.Power Source

120 V AC 50Hz AC 60Hz

G-13.Power Consumption:

65 W at AC 120 V 60 Hz

-- W at DC --- V

Stand by: 6 W at AC 120 V 60 Hz

Per Year: -- kWh / Year

G-14.Dimensions(Approx.) : 362 mm(W) 361 mm(D) 320.5 mm(H)

G-15.Weight(Approx.) Net : 9.5 kg (20.9 lbs)

Gross: 11.0 kg (24.4 lbs)

G-16.Cabinet Material

Cabinet Front: PS 94HB DECABROM

ABS

94V2

NON-DECA

94V0

Back Panel:

PS

94HB

DECABROM

ABS

94V2

NON-DECA

94V0

G-17.Protector:

Power Fuse

GENERAL SPECIFICATIONS

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	<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 <u> </u> Programs	<input checked="" type="checkbox"/> No
Wake Up Timer	<input type="checkbox"/> Yes <u> </u> Programs	<input checked="" type="checkbox"/> 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 type="checkbox"/> Video Input(Front)	<input type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC	
<input type="checkbox"/> Video Input(Rear)	<input type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC	
<input type="checkbox"/> Video Output(Rear)	<input type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC	
<input type="checkbox"/> Audio Input(Front)	<input type="checkbox"/> Phono Jack (RCA ø8.3)		
<input type="checkbox"/> Audio Input(Rear)	<input type="checkbox"/> Phono Jack (RCA ø8.3)		
<input type="checkbox"/> Audio Output(Rear)	<input type="checkbox"/> Phono Jack (RCA ø8.3)		
<input type="checkbox"/> 21 Pin	<input type="checkbox"/> DC Jack(Center +)	<input checked="" 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)	

G-24.Indicator :

<input type="checkbox"/> Power	<input type="checkbox"/> Stand By	<input type="checkbox"/> On Timer	<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 Selec	<input type="checkbox"/> On/Off Timer
<input type="checkbox"/> Hotel Lock	<input type="checkbox"/> Sound 1/2	<input type="checkbox"/> Area Code	<input checked="" type="checkbox"/> CH Tuning
<input type="checkbox"/> Guide CH Set	<input type="checkbox"/> CATV	<input type="checkbox"/> NICAM Auto Off	<input checked="" type="checkbox"/> Picture
<input checked="" type="checkbox"/> V-Chip	<input type="checkbox"/> Control Level	<input type="checkbox"/> Audio	<input checked="" type="checkbox"/> Language
<input checked="" type="checkbox"/> Sound	<input checked="" type="checkbox"/> Color	<input type="checkbox"/> Pin Code Registration	<input type="checkbox"/> Pin Code Registration
<input checked="" type="checkbox"/> Tuning	<input checked="" type="checkbox"/> Brightness	<input checked="" type="checkbox"/> Contrast	
<input type="checkbox"/> Balance	<input checked="" type="checkbox"/> Tint(NTSC Only)	<input checked="" type="checkbox"/> Sharpness	
<input type="checkbox"/> Stereo,Audio Output,Bilingual	<input type="checkbox"/> Bass	<input type="checkbox"/> Treble	
<input type="checkbox"/> Stereo,Audio Output,SAP	<input type="checkbox"/> Back Light		
<input type="checkbox"/> Stereo,Audio Output	<input type="checkbox"/> Picture Menu		
<input type="checkbox"/> CH/AV	<input type="checkbox"/> Mid Night Theater		
<input type="checkbox"/> Sleep Timer	<input type="checkbox"/> GAME		
<input type="checkbox"/> Clock	<input type="checkbox"/> Pin Code	<input type="checkbox"/> Hotel Lock	
<input checked="" type="checkbox"/> Sound Mute	<input checked="" type="checkbox"/> Channel		

G-26.OSD Language

Eng Ger Fre Spa Ita Por Jpn

OSD Language Setting

Eng Ger Fre Spa Ita Por Jpn
Not Applicable

GENERAL SPECIFICATIONS

G-27.Speaker

3 inches Imp. 8 ohm x 1 pcs
 Max 1.0 W (Typical)
 10% 0.8 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: 408 mm(W) 440 mm(D) 380 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: 866 Sets / 40' container

G-30.Accessories

Owner's Manual (W/Guarantee Card) [English/French]
 Channel Film Remote Control Unit
 AC Plug Adapter Battery (UM- 4 x 2)
 Safety Tip Toll Free Insert Sheet
 Guarantee Card Audio-Video Cord (RCA)
 Registration Card Warning Sheet
 Quick Set-Up Sheet Schematic Diagram
 Information Sheet U/V Mixer
 75 ohm Coaxial Cable (Single Shield Double Shield)
 300 ohm to 75 ohm VHF Antenna Adaptor
 21pin Cable Car Cord
 Rod Antenna Din Type France Type
 One Pole Two Pole (F-Type Din Type France Type)
 Loop Antenna (F-Type Din Type France Type)

G-31.Other Features

Auto Degauss Auto Search Full OSD
 Auto Shut Off CH Allocation Premiere
 Canal+ SAP Comb Filter
 CATV Channel Lock Auto CH Memory
 Anti-Theft Just Clock Function Hotel Lock
 Rental Game Position Fastext
 Unitext TopText Closed Caption
 Picture Menu Mid Night Theater V-Chip

G-32.Switch

Front

Power(Tact) Channel Up Volume Up
 System Select Channel Down Volume Down
 Main Power SW Sub Power

Rear

AC/DC TV/CATV Selector
 Degauss Main Power SW

GENERAL SPECIFICATIONS

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-74

Power Source:

D.C 3 V Battery UM - 4 x 2

<input checked="" type="checkbox"/> Power	<input checked="" type="checkbox"/> Quick View	<input 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"/> Mute	<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 Seley	<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	

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.

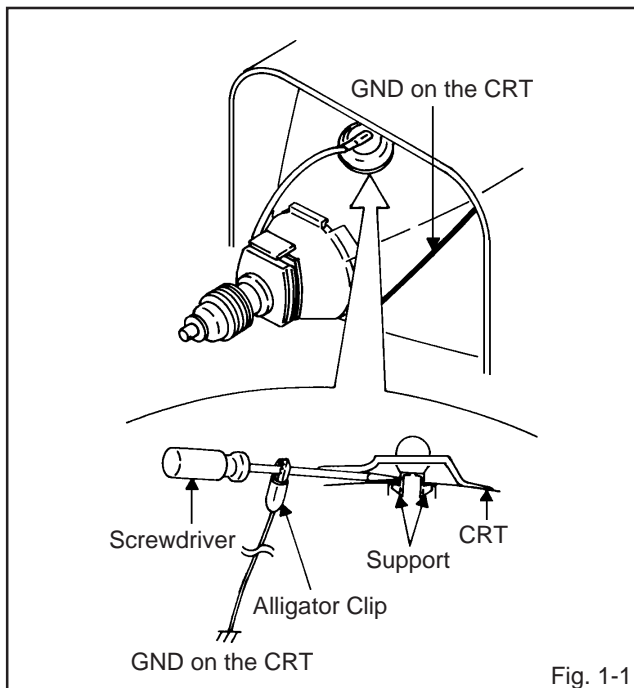


Fig. 1-1

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.)

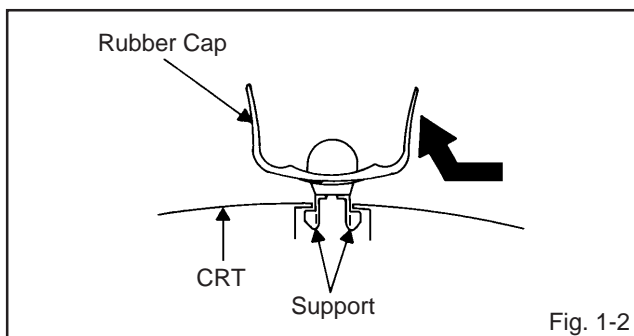


Fig. 1-2

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.)

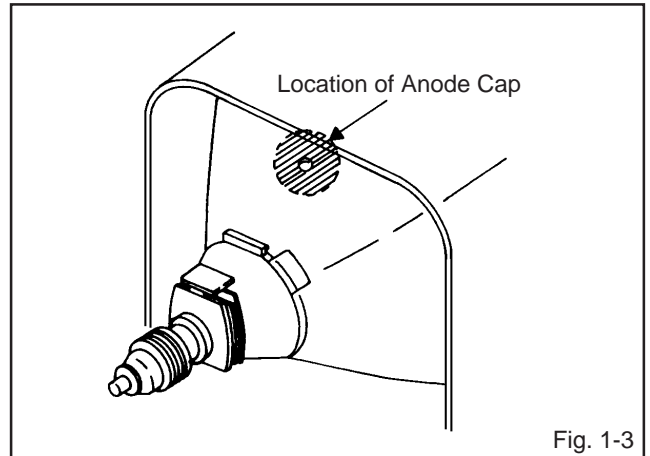


Fig. 1-3

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.)

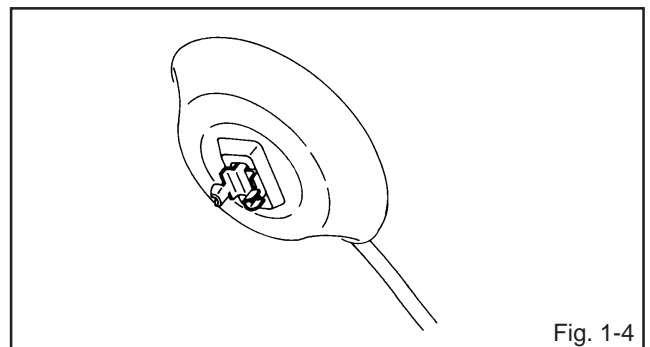


Fig. 1-4

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

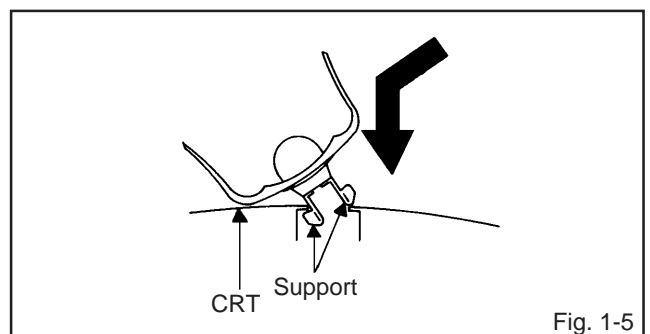


Fig. 1-5

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.

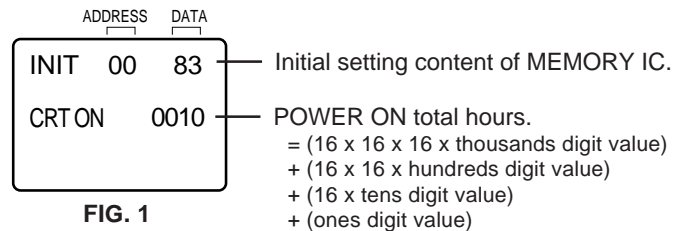


FIG. 1

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	6C	00	00	00	00	00	98	05	0E

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 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.
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 $2.0 \pm 0.05V$.

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

1. Receive the monoscope 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 (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 TINT/SUB COLOR

1. Receive the color bar pattern.
2. Connect the synchro scope to **TP023**.
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. Activate the adjustment mode display of **Fig. 2-4** and press the channel button **(3)** on the remote control.
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.

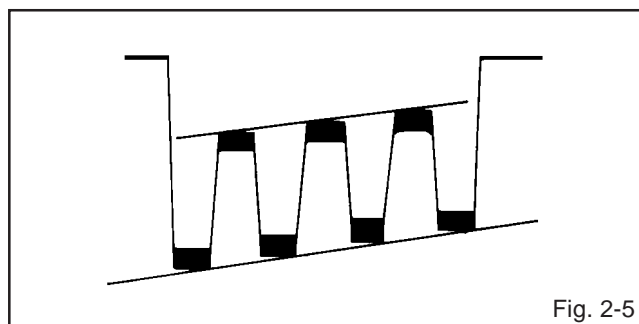


Fig. 2-5

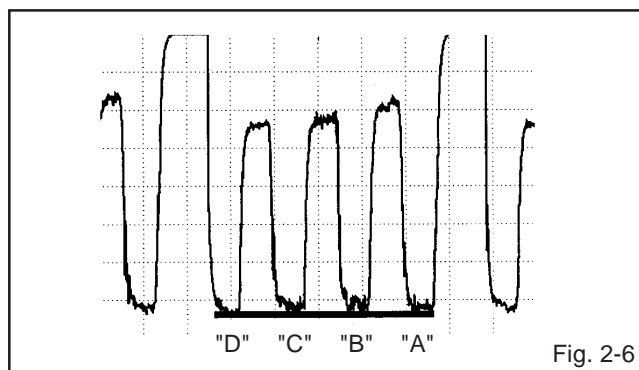


Fig. 2-6

2-6: FOCUS

1. Receive an 70dB monoscope pattern.
2. 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. 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 **(4)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the horizontal line of the color bar comes to approximate center of the CRT. Perform the adjustment of step 5 to step 12.

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

Fig. 2-7

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.

2-9: VERTICAL LINEA

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 **(5)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the VERTICAL LINEA is 14 step.

2-10: 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.

2-11: 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. **(Refer to Fig. 2-8)**

ELECTRICAL ADJUSTMENTS

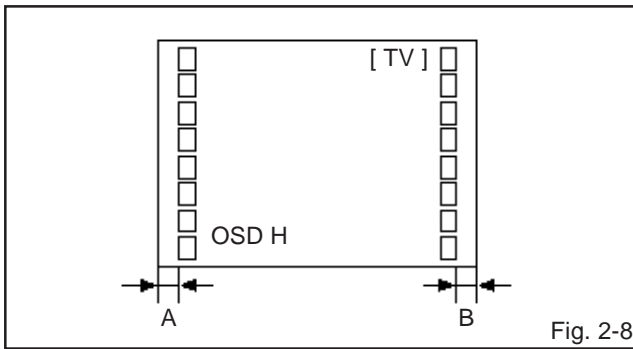


Fig. 2-8

2-12: VCO FREERUN

1. Place the set with Aging Test for more than 10 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 $3.1 \pm 0.05V$.

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.

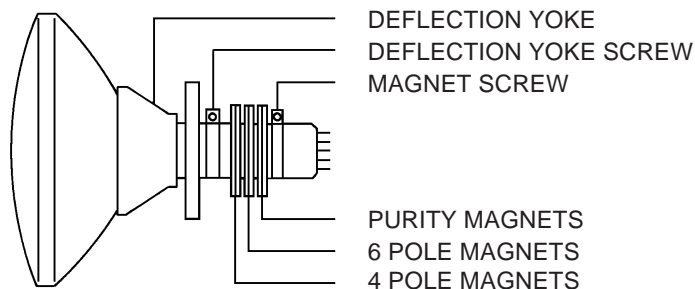


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

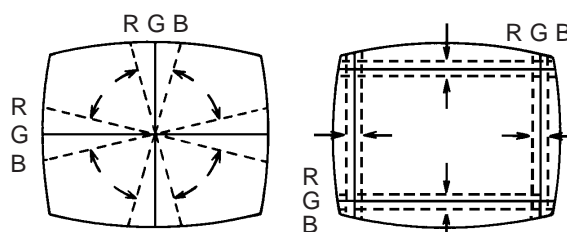
1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

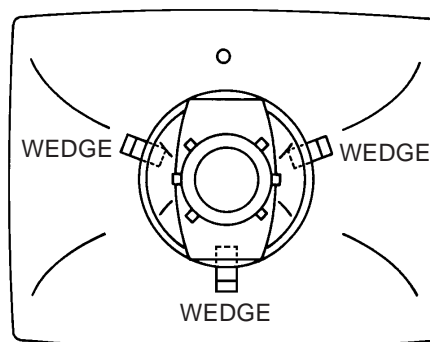
Adjust after performing adjustments in section 3-3.

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

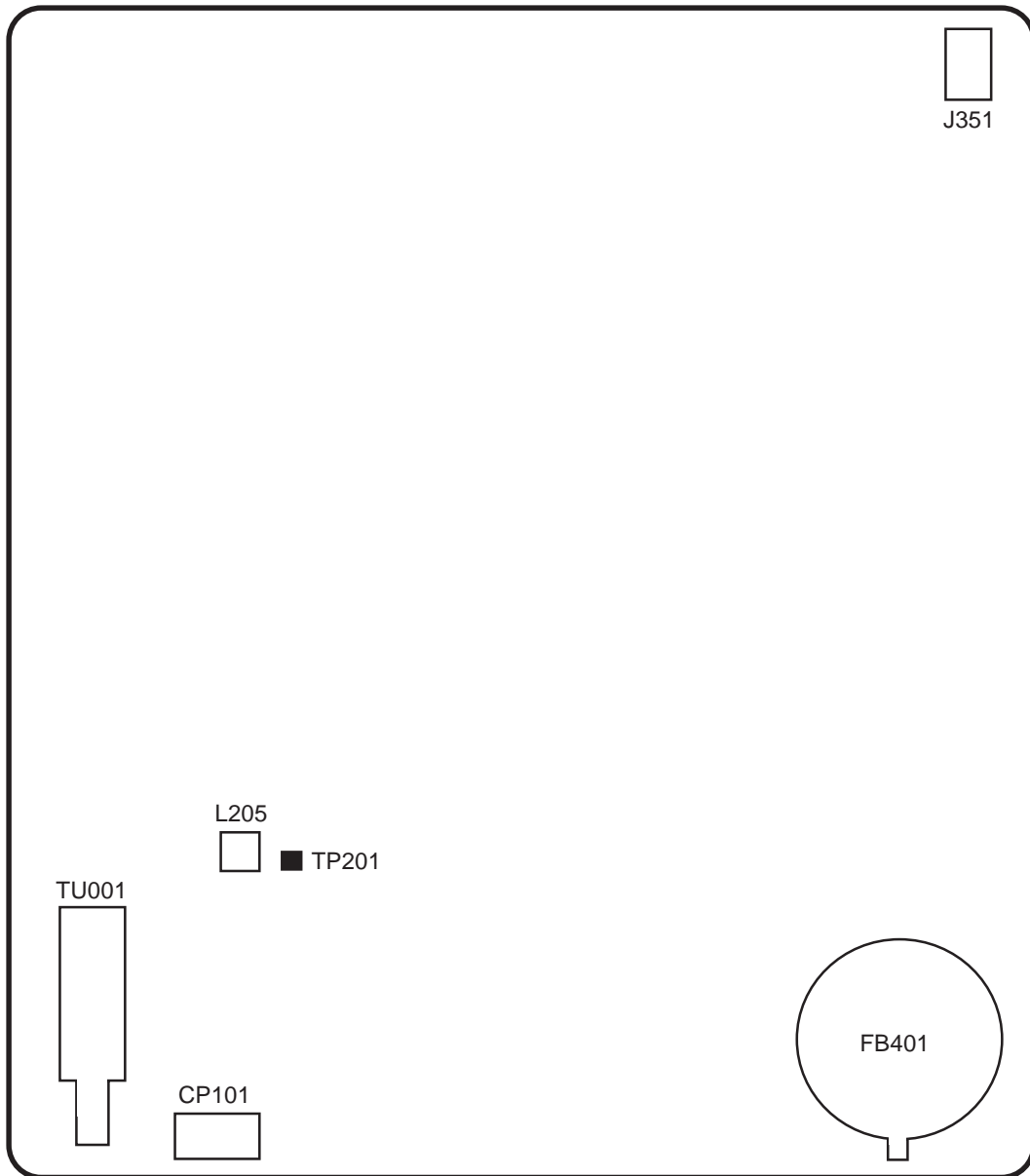
Fig. 3-2-a



WEDGE POSITION

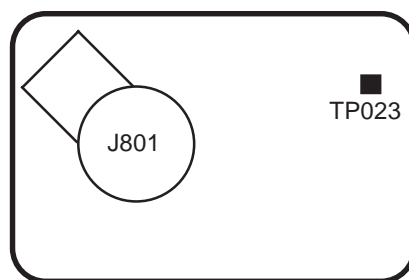
Fig. 3-2-b

MAJOR COMPONENTS LOCATION GUIDE



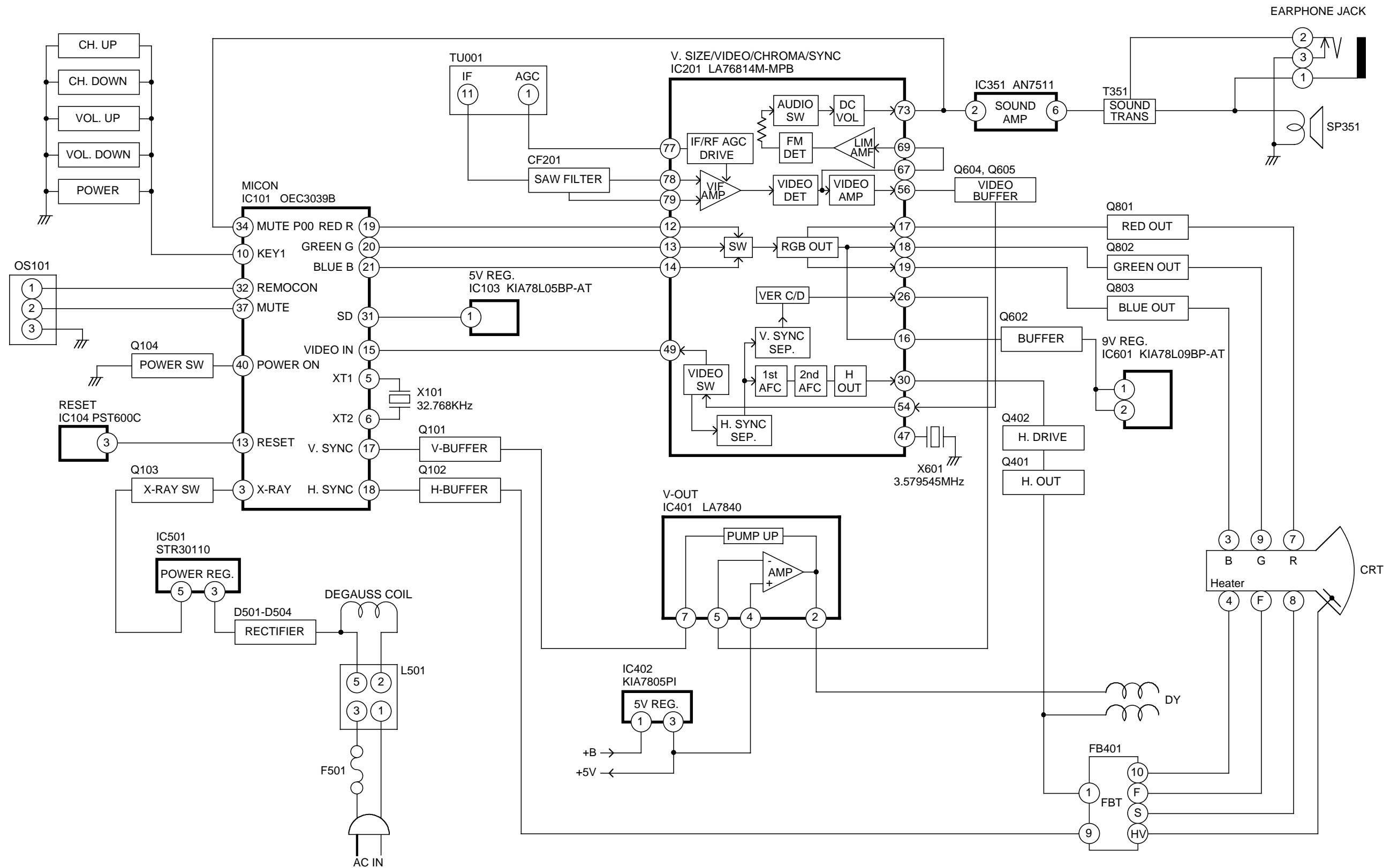
FOCUS VOLUME
SCREEN VOLUME

MAIN

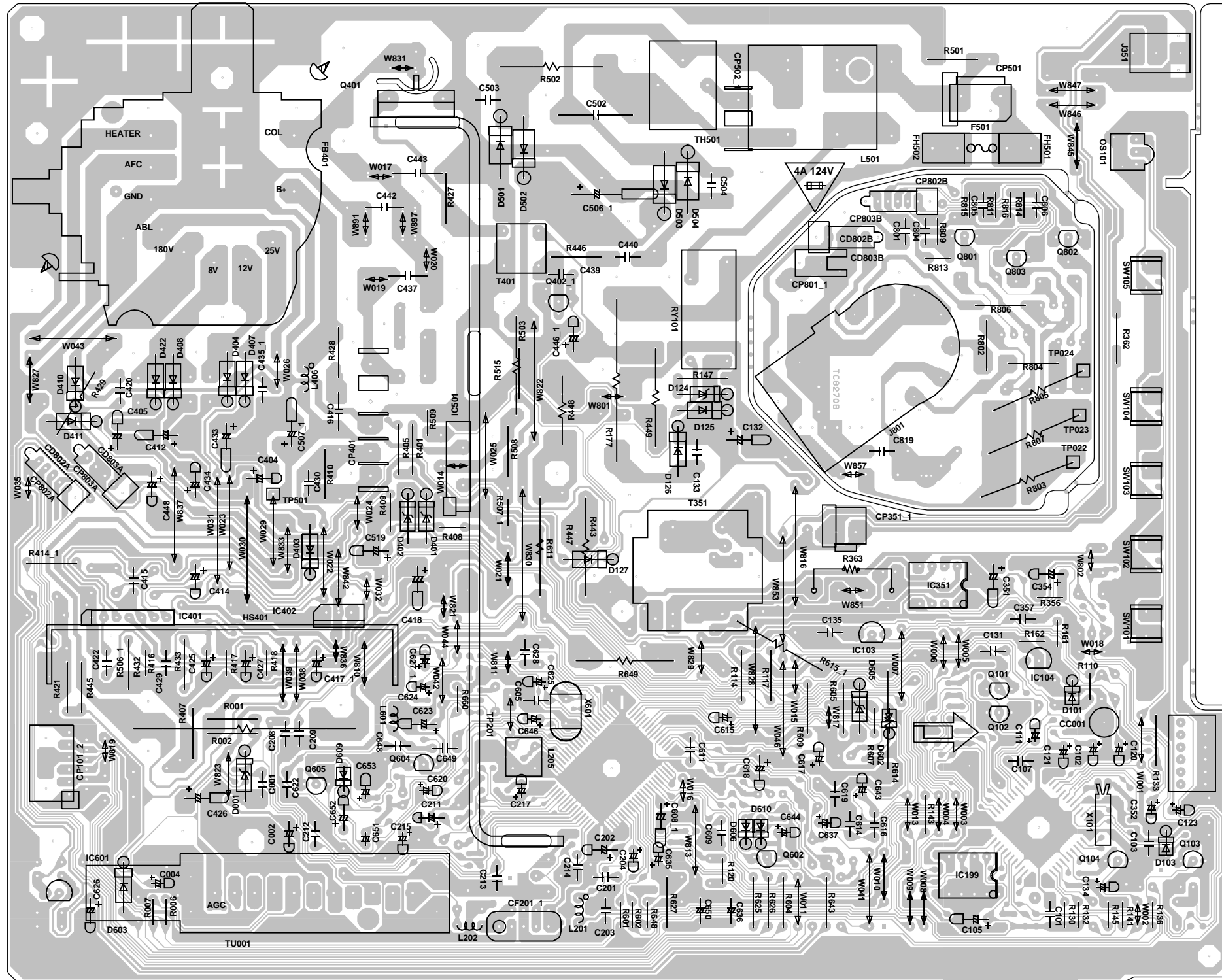


CRT

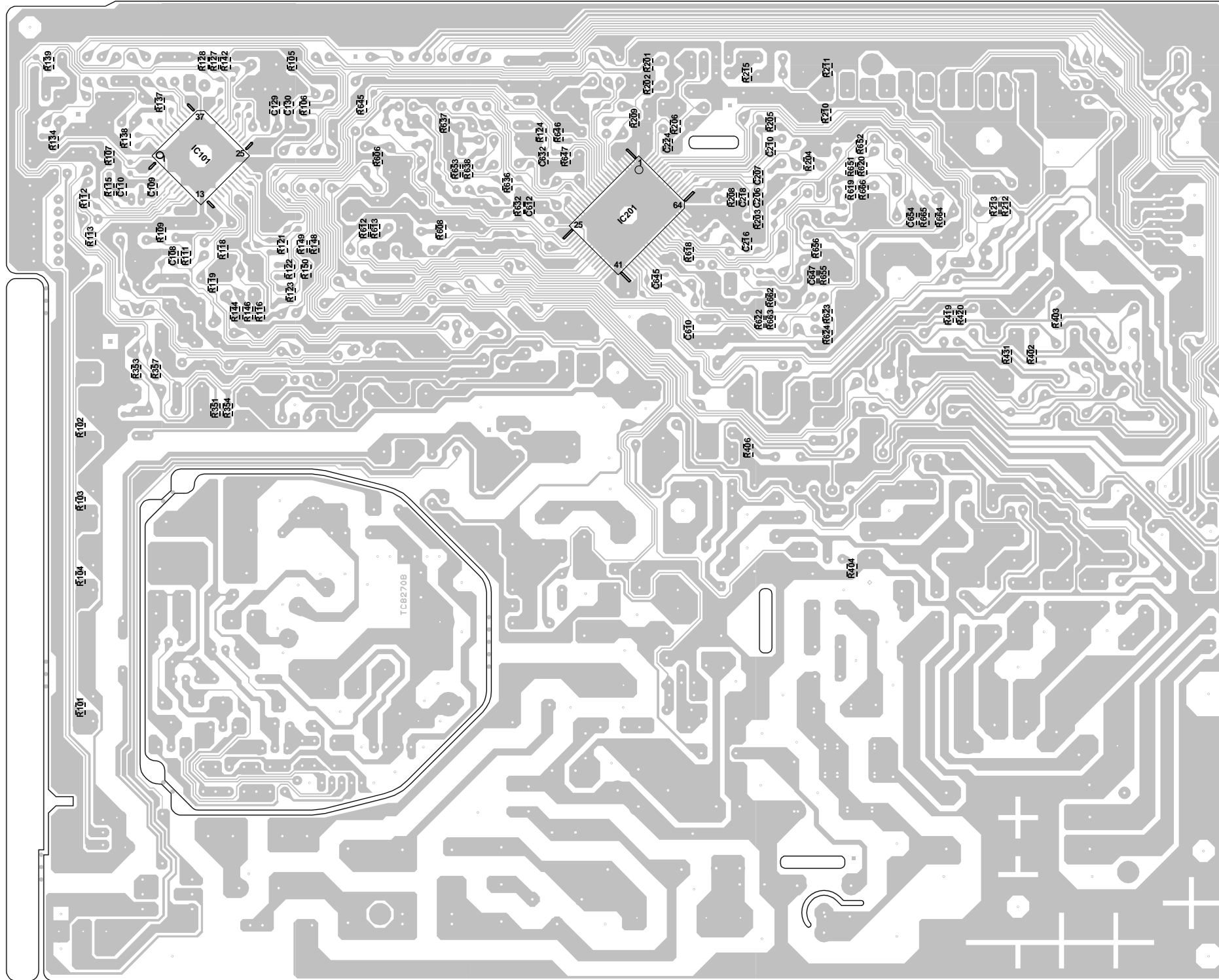
BLOCK DIAGRAM



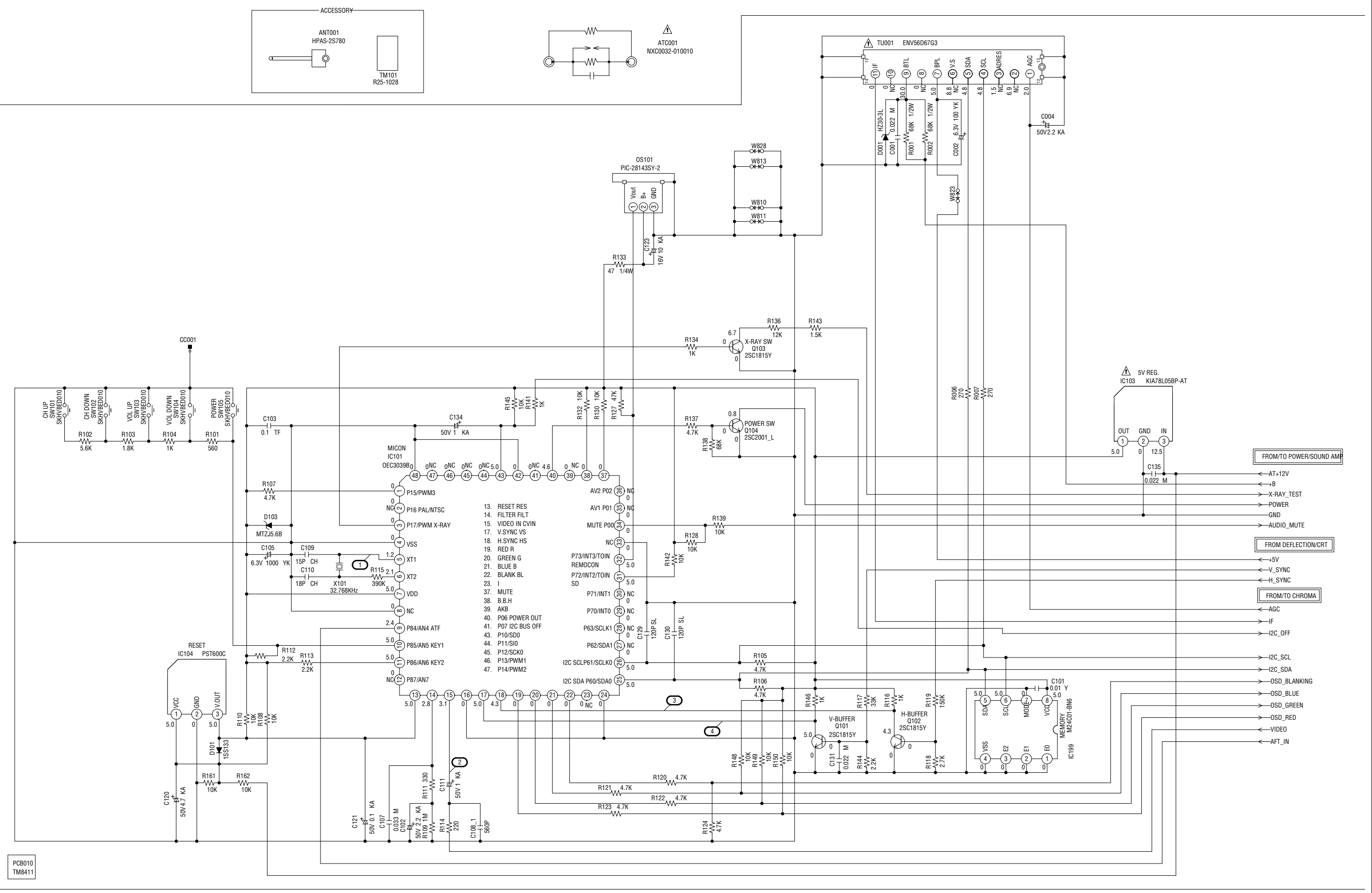
**PRINTED CIRCUIT BOARDS
MAIN/CRT (INSERTED PARTS)
SOLDER SIDE**



PRINTED CIRCUIT BOARDS
MAIN (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.

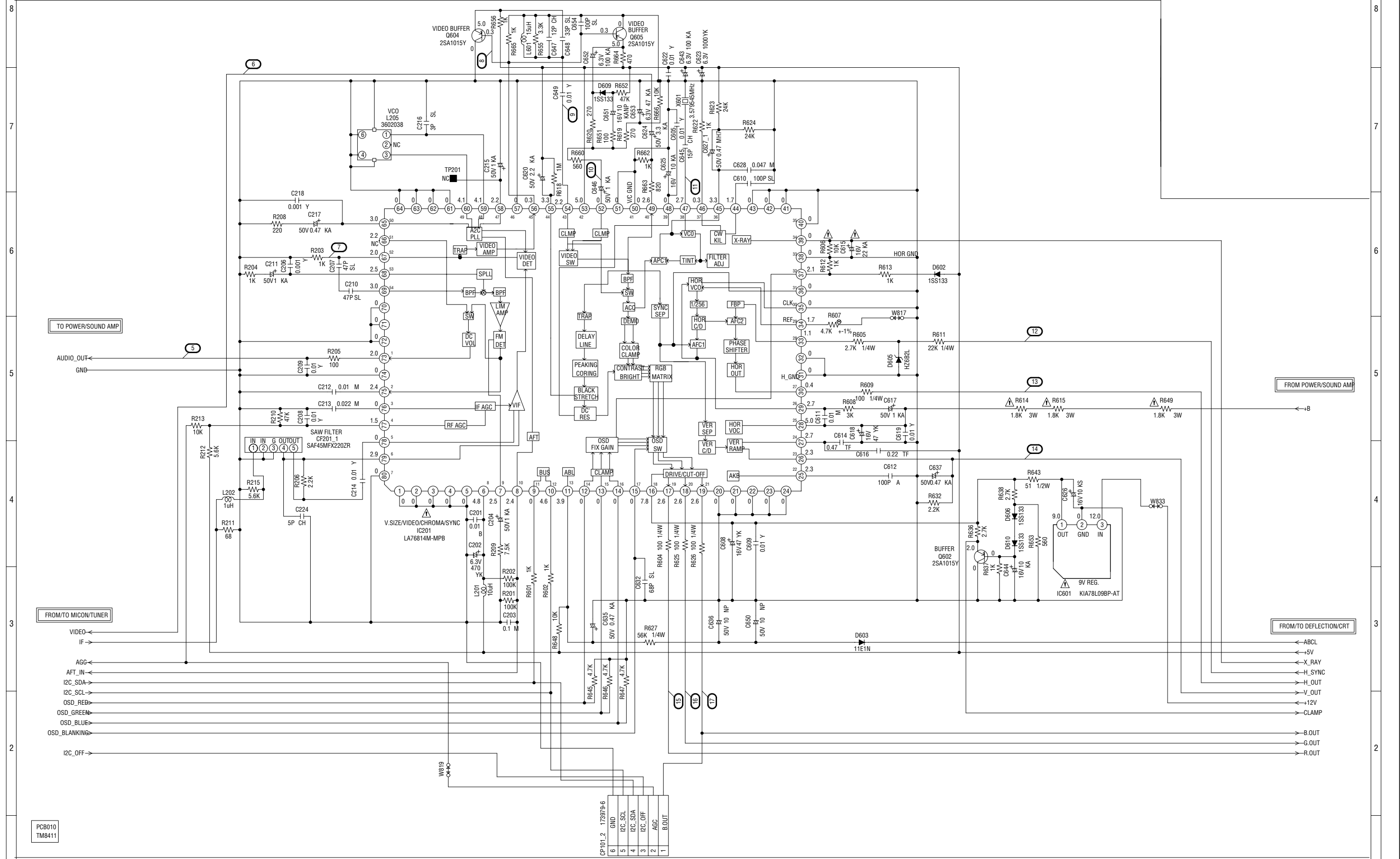
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY 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.

PCB010
TM8411

CHROMA 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.

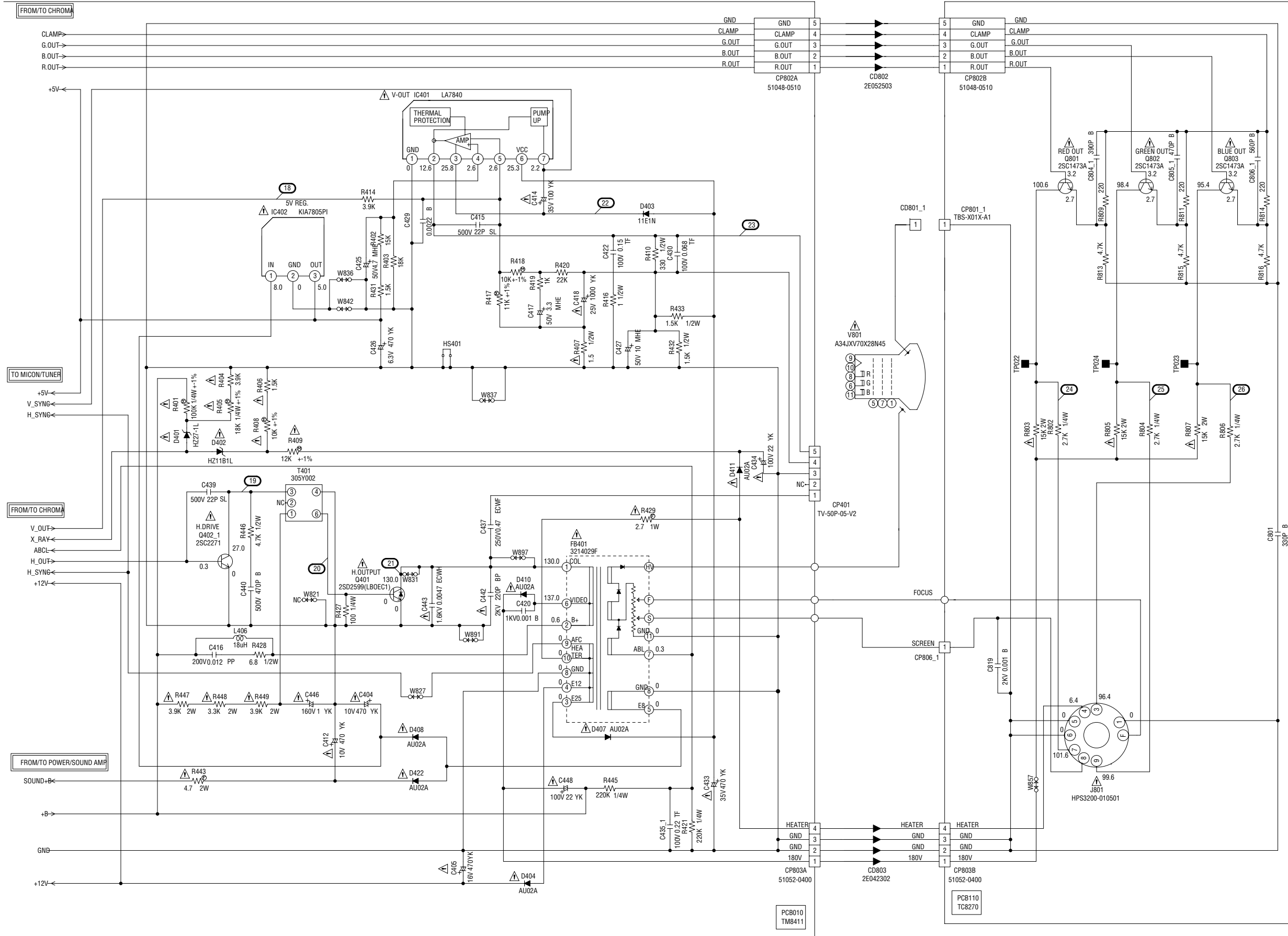
CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

PCB010
TM8411

CP101.2	179979-6
6	GND
5	I2C_SCL
4	I2C_SDA
3	I2C_OFF
2	AGC
1	B.OUT

DEFLECTION/CRT SCHEMATIC DIAGRAM



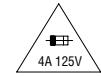
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

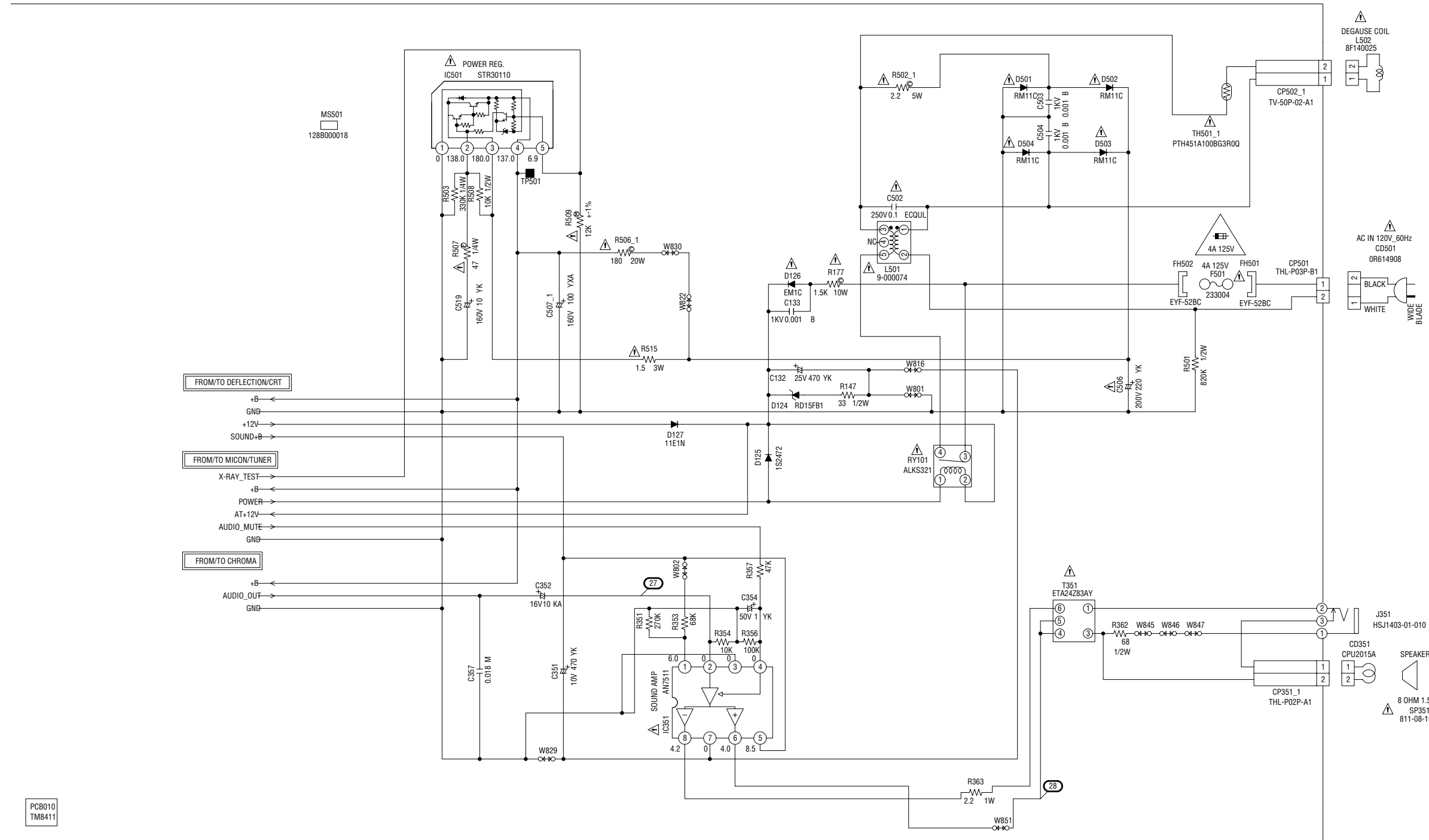
CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

POWER/SOUND AMP SCHEMATIC DIAGRAM



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125V (F501) FUSE.
 ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCENDIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 4A 125V (F501).



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

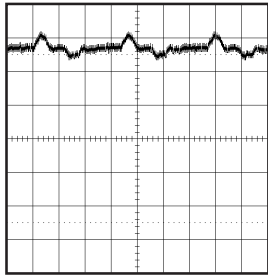
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

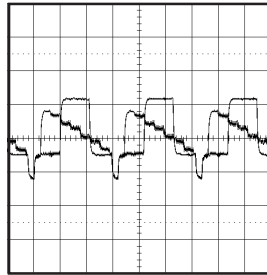
ATTENTION: LES PIECES REPAREES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

WAVEFORMS

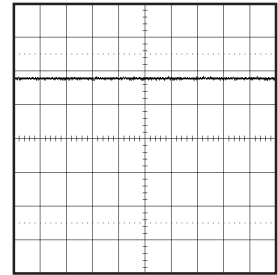
MICON/TUNER



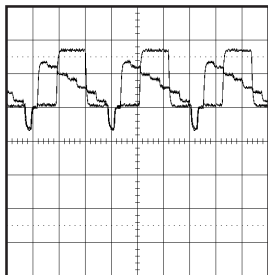
① 200mV. 5ms/div



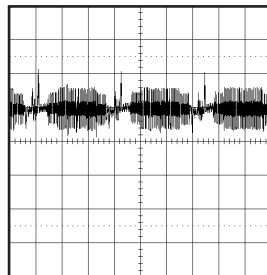
⑥ 0.5V. 20μs/div



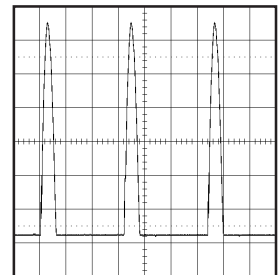
⑪ 1V. 0.5ms/div



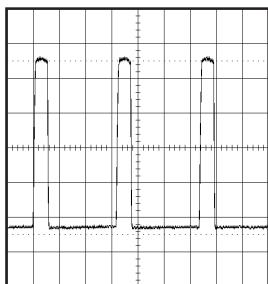
② 0.5V. 20μs/div



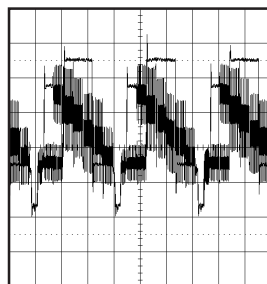
⑦ 0.5V. 20μs/div



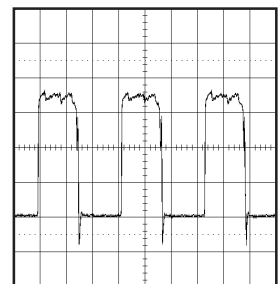
⑫ 20V. 20μs/div



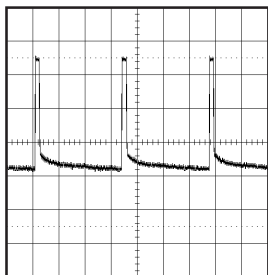
③ 200mV. 20μs/div



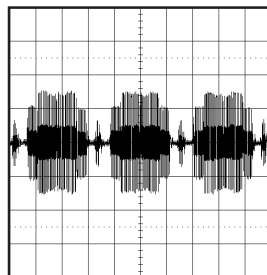
⑧ 0.5V. 20μs/div



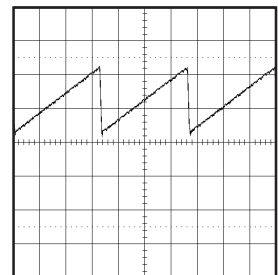
⑬ 200mV. 20μs/div



④ 200mV. 5ms/div

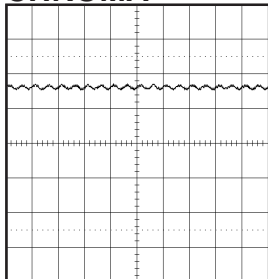


⑨ 200mV. 20μs/div

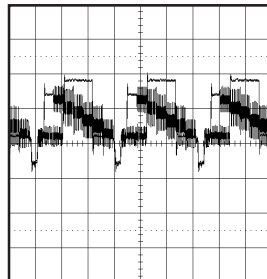


⑭ 0.5V. 5ms/div

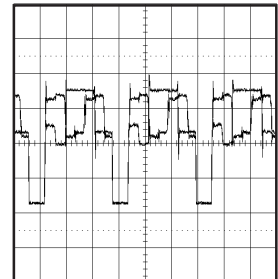
CHROMA



⑤ 0.5V. 2ms/div



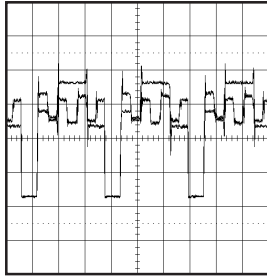
⑩ 0.5V. 20μs/div



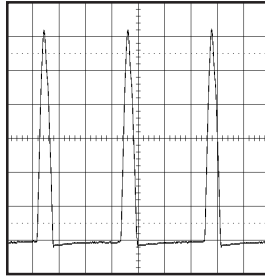
⑮ 1V. 20μs/div

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

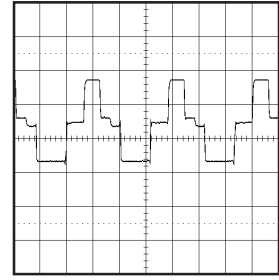
WAVEFORMS



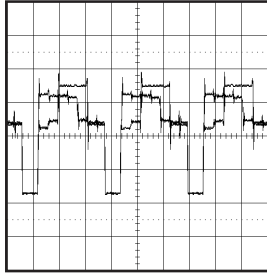
①⑥ 1V. 20 μ s/div



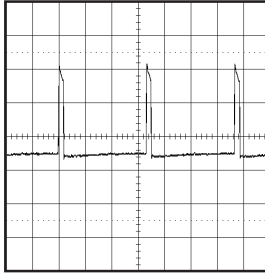
②① 200V. 20 μ s/div



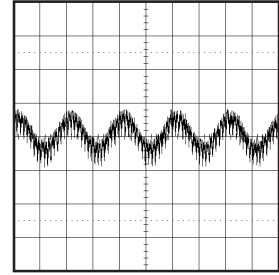
②⑥ 50V. 20 μ s/div



①⑦ 1V. 20 μ s/div



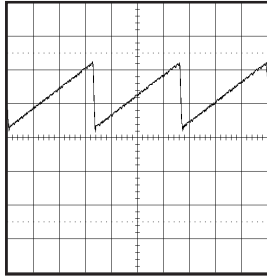
②② 10V. 5ms/div



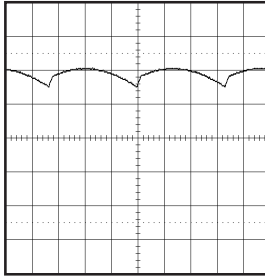
②⑦ 50mV. 0.5ms/div

POWER/SOUND AMP

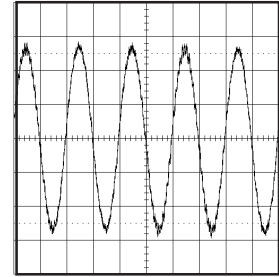
DEFLECTION/CRT



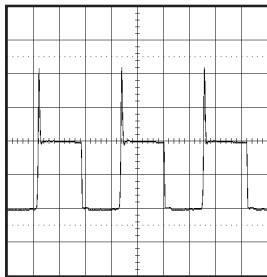
①⑧ 0.5V. 5ms/div



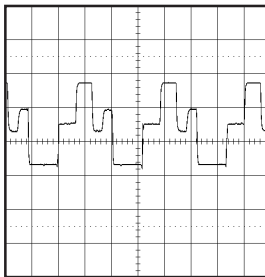
②③ 5V. 5ms/div



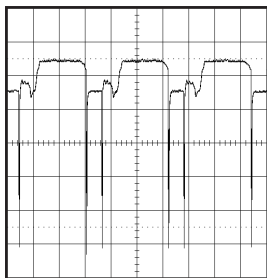
②⑧ 200mV. 0.5ms/div



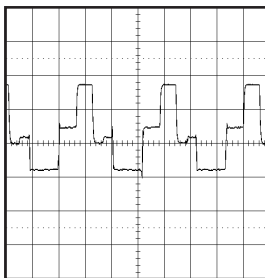
①⑨ 20V. 20 μ s/div



②④ 50V. 20 μ s/div



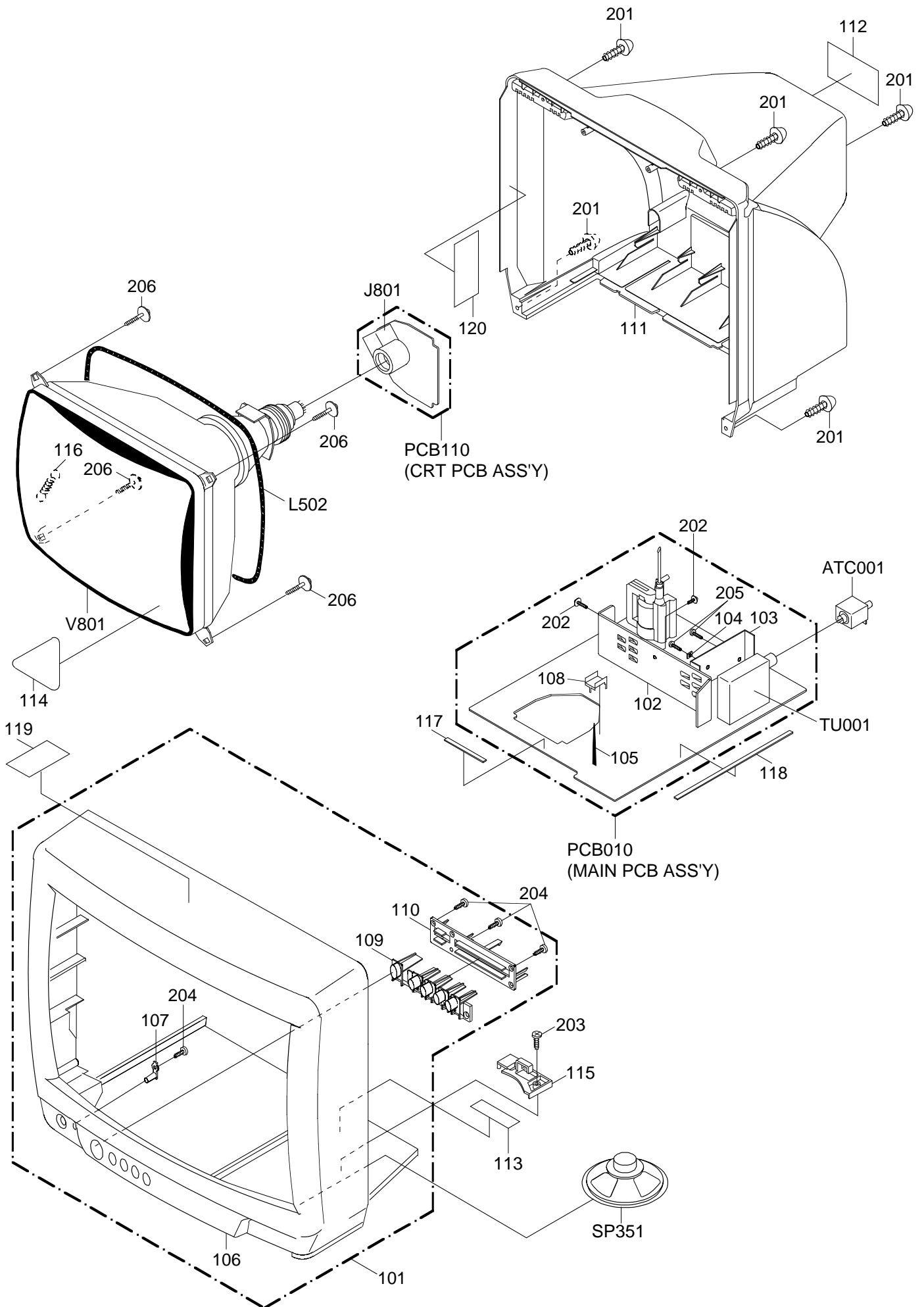
②⑩ 2V. 20 μ s/div



②⑤ 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	A3H202C720	CABINET,FRONT ASS'Y	
102	---	HEAT SINK	
103	---	HEAT SINK	
104	---	METAL SPACER	
105	---	COATING CLIP	
106	701WPJA543	CABINET,FRONT	
107	713WPA0090	GUIDE,REMOCON	
108	---	HEAT SINK	
109	735WPA0381	BUTTON,FRAME	
110	735WPA0382	BUTTON,HOLDER	
111	702WPA0535	CABINET,BACK	
112	722A08A031	SHEET,RATING	
113	7230006818	SHEET,CAUTION	
114	723000A930	FILM,DECORATION	
115	735WPA0396	SPEAKER,HOLDER	
116	741WUA0019	SPRING,EARTH	
117	800WQ00044	FELT SHEET	5x50xT0.5
118	800WQ00045	FELT SHEET	5x150xT0.5
119	722000A023	SHEET,HWC	
120	7220001059	SHEET,CSA WARNING	
201	8117540A64	SCREW,TAPPING (B0)	TRUSS 4x16
202	8117D30A04	SCREW,TAPPING (B0)	WH8 BRAZIER 3x10
203	8110630A24	SCREW,TAP TITE (P)	BRAZIER 3x12
204	8110630A04	SCREW,TAP TITE (P)	BRAZIER 3x10
205	810A130804	SCREW/WASHER (A)	M3x8
206	8121J50B54	SCREW,TAPPING (B0)	GW20 5x28
---	JB5K0100	POLY BAG	
---	J3H20201	INSTRUCTION BOOK	
---	791WHA0023	LAMIFILM BAG	
---	792WHA0225	PACKAGE, TOP	
---	792WHA0226	PACKAGE, BOTTOM	
---	793WCDA568	GIFT BOX	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
RESISTORS			ICS		
△ R177	R5Y2CF152J	R, CEMENT 1.5K OHM 10W	IC101	I53F53039B	IC OEC3039B
R363	R3X1812R2J	R, METAL OXIDE 2.2 OHM 1W	△ IC103	I1K998L050	IC KIA78L05BP-AT
△ R401	R4X5T4104F	R, METAL 100K OHM 1/4W	IC104	I9UJ0T600C	IC PST600C
△ R404	R903N8332J	RC 3.3K OHM 1/8W	IC199	A3H201A015	IC M24C01-BN6
△ R405	R4X5T4183F	R, METAL 18K OHM 1/4W	△ IC201	I03FE76814	IC LA76814M-MPB
△ R406	R903N8152J	RC 1.5K OHM 1/8W	△ IC351	I01DP75110	IC AN7511
△ R407	R635821R5J	R, FUSE 1.5 OHM 1/2W	△ IC401	I03SD78400	IC LA7840
△ R408	R4X5T6103F	R, METAL 10K OHM 1/6W	△ IC402	I1KA978050	IC KIA7805PI
△ R409	R4X5T6123F	R, METAL 12K OHM 1/6W	△ IC501	I2B4901100	IC STR30110
R416	R0L2U2010J	RC 1 OHM 1/2W	△ IC601	I1KJ98L090	IC KIA78L09BP-AT
R417	R425T6113F	R, METAL 11K OHM 1/6W	TRANSISTORS		
R418	R425T6103F	R, METAL 10K OHM 1/6W	Q101	TC5T018154	TRANSISTOR, SILICON 2SC1815Y(TPE2)
△ R429	R655812R7J	R, FUSE 2.7 OHM 1W	Q102	TC5T018154	TRANSISTOR, SILICON 2SC1815Y(TPE2)
△ R443	R6550A4R7J	R, FUSE 4.7 OHM 2W	Q103	TC5T018154	TRANSISTOR, SILICON 2SC1815Y(TPE2)
△ R447	R3X18A392J	R, METAL OXIDE 3.9K OHM 2W	Q104	TCST02001L	TRANSISTOR, SILICON 2SC2001(C)-T_L
△ R448	R3X18A332J	R, METAL OXIDE 3.3K OHM 2W	△ Q401	TDUU025990	TRANSISTOR, SILICON 2SD2599(LBOEC1)
△ R449	R3X18A392J	R, METAL OXIDE 3.9K OHM 2W	△ Q402	TC3T022710	TRANSISTOR, SILICON 2SC2271(D,E)-AE
R501	R21202105K	R, SOLID 1M OHM 1/2W	Q602	TA5T010154	TRANSISTOR, SILICON 2SA1015Y(TPE2)
△ R502	R5Y2CE2R2J	R, CEMENT 2.2 OHM 7W	Q604	TA5T010154	TRANSISTOR, SILICON 2SA1015Y(TPE2)
△ R506	R5Y2CH181J	R, CEMENT 180 OHM 20W	Q605	TA5T010154	TRANSISTOR, SILICON 2SA1015Y(TPE2)
△ R507	R65584470J	R, FUSE 47 OHM 1/4W	△ Q801	TCKT1473A0	TRANSISTOR, SILICON 2SC1473A-TA-(RQ)
△ R509	R4X5T6123F	R, METAL 12K OHM 1/6W	△ Q802	TCKT1473A0	TRANSISTOR, SILICON 2SC1473A-TA-(RQ)
△ R515	R3X28B1R5J	R, METAL 1.5 OHM 3W	△ Q803	TCKT1473A0	TRANSISTOR, SILICON 2SC1473A-TA-(RQ)
△ R606	R903N8103J	RC 10K OHM 1/8W	COILS & TRANSFORMERS		
△ R614	R3X28B182J	R, METAL OXIDE 1.8K OHM 3W	L201	021LA6100K	COIL 10 UH
△ R615	R3X28B182J	R, METAL OXIDE 1.8K OHM 3W	L202	0216731R0K	COIL 1 UH
△ R649	R3X28B182J	R, METAL OXIDE 1.8K OHM 3W	L205	0336020388	COIL, VIDEO IFT 3602038
△ R803	R3X18A153J	R, METAL OXIDE 15K OHM 2W	L406	02186G180M	COIL 18 UH
△ R805	R3X18A153J	R, METAL OXIDE 15K OHM 2W	△ L501	029K000074	COIL, LINE FILTER 9-000074
△ R807	R3X18A153J	R, METAL OXIDE 15K OHM 2W	△ L502	028F140025	COIL, DEGAUSS 8F140025
CAPACITORS			L601	021LA6150K	COIL 15 UH
△ C404	E02LT1471M	CE 470 UF 10V	△ T351	045126001A	TR, SOUND OUT PUT ETA24Z83AY
△ C405	E02LT2471M	CE 470 UF 16V	T401	03305Y002S	TRANS, HORIZONTALDRUVE 305Y002
△ C412	E02LT1471M	CE 470 UF 10V	JACKS		
△ C414	E02LT4101M	CE 100 UF 35V	J351	0602121012	JACK, RCA 3.5 HSJ1403-01-010
C416	P3N1F2123J	CPP 0.012 UF 200V	△ J801	066X120014	SOCKET, CRT HPS3200-010501
△ C418	E02LF3102M	CE 1000 UF 25V	SWITCHES		
△ C433	E02LT4471M	CE 470 UF 35V	SW101	0504201T31	SWITCH, TACT SKHVBED010
△ C434	E02LT8220M	CE 22 UF 100V	SW102	0504201T31	SWITCH, TACT SKHVBED010
△ C437	P411F3474J	CMPP 0.47 UF 250V	SW103	0504201T31	SWITCH, TACT SKHVBED010
△ C442	C01BBP7H2K	CC 220 PF 2KV BP	SW104	0504201T31	SWITCH, TACT SKHVBED010
△ C443	P414F9472H	CMPP 0.0047 UF 1.6KV	SW105	0504201T31	SWITCH, TACT SKHVBED010
△ C446	E02LTB010M	CE 1 UF 160V	P.C.BOARD ASSEMBLIES		
△ C448	E02LT8220M	CE 22 UF 100V	PCB010	A3H202C01A	PCB ASS'Y TM8411B
△ C502	P2122B104M	CMP 0.1 UF 250V	PCB110	A3H202C11A	PCB ASS'Y TC8270B
△ C506	E02LFC221M	CE 220 UF 200V	MISCELLANEOUS		
C507	E02YFB101M	CE 100 UF 160V	ANT001	125C108030	ANTENNA, ROD HPAS-2S780
△ C615	E50HU2220M	CE 22 UF 16V	△ ATC001	0632400008	ANT, UNIT NXC0032-010010
C650	E0EE05100M	CE 10 UF 50V	CD351	06CPU2015A	CORD, CONNECTOR CPU2015A
DIODES			△ CD501	120R614908	CORD, AC 0R614908
D001	D94TA30013	DIODE, ZENER HZ30-3L TD	CD802	122E052503	CORD, JUMPER 2E052503
D101	D1VT001330	DIODE, SILICON 1SS133T-77	CD803	122E042302	CORD, JUMPER 2E042302
D103	D97U05R61B	DIODE, ZENER MTZJ5.6B T-77	CF201	1022T45R71	FILTER, SAW SAF45MFX220ZR
D124	D9201150B1	DIODE, ZENER RD15FB1	CP101	0694260139	CONNECTOR PCB SIDE 173979-6
D125	D1VT024720	DIODE, SILICON 1S2472T-77	CP351	0697U20029	CONNECTOR PCB SIDE THL-P02P-A1
△ D126	D2BT0EM1C0	DIODE, SILICON EM1C V1	CP401	069X450029	CONNECTOR PCB SIDE B05B-DVS
D127	D28T11E1N1	DIODE, SILICON 11E1N-TA1B2	CP501	0697320039	CORD, UX CONNECTOR THL-P03P-B1
△ D401	D94TA27011	DIODE, ZENER HZ27-1L TD	CP502	069W420029	CONNECTOR PCB SIDE TV-50P-02-A1
△ D402	D94TA11B11	DIODE, ZENER HZ11B1L TD	CP801	069W010030	CONNECTOR PCB SIDE TBS-X01X-A1
D403	D28T11E1N1	DIODE, SILICON 11E1N-TA1B2	CP802A	067R005019	WIRE HOLDER 51048-0510
△ D404	D2BTAU02A0	DIODE, SILICON AU02A V0	CP802B	067R005019	WIRE HOLDER 51048-0510
△ D407	D2BTAU02A0	DIODE, SILICON AU02A V0	CP803A	067R104019	WIRE HOLDER 51052-0400
△ D408	D2BTAU02A0	DIODE, SILICON AU02A V0	CP803B	067R104019	WIRE HOLDER 51052-0400
△ D410	D2BTAU02A0	DIODE, SILICON AU02A V0	CUS001	800WF00004	CUSHION-A
△ D411	D2BTAU02A0	DIODE, SILICON AU02A V0	△ F501	081PA04003	FUSE 233004-MB000
△ D422	D2BTAU02A0	DIODE, SILICON AU02A V0	△ FB401	043214029F	TRANSFORMER, FLYBACK 3214029F
△ D501	D2BTRM11C0	DIODE, RECTIFIER RM11C	FH501	06710T0006	HOLDER, FUSE EYF-52BC
△ D502	D2BTRM11C0	DIODE, RECTIFIER RM11C	FH502	06710T0006	HOLDER, FUSE EYF-52BC
△ D503	D2BTRM11C0	DIODE, RECTIFIER RM11C	MS501	128B000018	SHEET 23MICA
△ D504	D2BTRM11C0	DIODE, RECTIFIER RM11C	OS101	077Q014003	REMOTE RECEIVER PIC-28143SY-2
D602	D1VT001330	DIODE, SILICON 1SS133T-77	△ RY101	0560V20115	RELAY ALKS321
D603	D28T11E1N1	DIODE, SILICON 11E1N-TA1B2	△ SP351	070C132014	SPEAKER 811-08-194
D605	D94TA6RB12	DIODE, ZENER HZ6B2L TD	△ TH501	DF20BG3R0Q	DEGAUSS ELEMENT PTH451A100BG3R0Q
D606	D1VT001330	DIODE, SILICON 1SS133T-77	TM101	076R074150	TRANSMITTER R25-1028
D609	D1VT001330	DIODE, SILICON 1SS133T-77	△ TU001	0145S00049	TUNER, UHF-VHF ENV56D67G3
D610	D1VT001330	DIODE, SILICON 1SS133T-77	△ V801	098Y140497	COLOR PICTURE TUBE W/DY A34JXV70X28N45
			X101	100C32R803	CRYSTAL DSVT-200 32.768KHz
			X601	100CT3R505	CRYSTAL HC-49 /C 3.579545MHz

ELECTRICAL REPLACEMENT PARTS LIST

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

CC..... CERAMIC CAPACITOR

CE..... ALUMI ELECTROLYTIC CAPACITOR

CP..... POLYESTER CAPACITOR

CPP..... POLYPROPYLENE CAPACITOR

CPL..... PLASTIC CAPACITOR

CMP..... METAL POLYESTER CAPACITOR

CMPL..... METAL PLASTIC CAPACITOR

CMPP..... METAL POLYPROPYLENE CAPACITOR

SPEC.NO.	M3H2-02C
O/R NO.	K983018