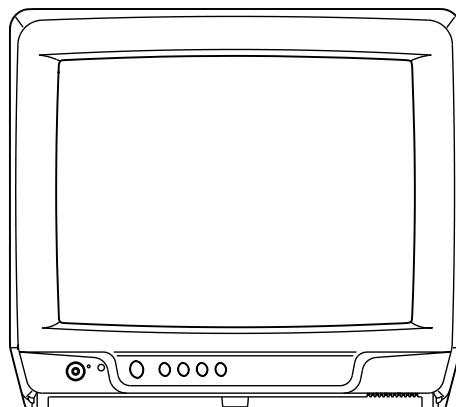


Memorex

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-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:

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-17Protector:

☒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	<u>5</u> °C ~ <u>40</u> °C
Storage	<u>-20</u> °C ~ <u>60</u> °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 _____ Programs	<input checked="" type="checkbox"/> No
Wake Up Timer	<input type="checkbox"/> Yes _____ 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"/> Area Code	<input checked="" type="checkbox"/> CH Tuning
<input type="checkbox"/> Sound 1/2		<input type="checkbox"/> NICAM Auto Off	<input checked="" type="checkbox"/> Picture
<input type="checkbox"/> Guide CH Set		<input type="checkbox"/> Audio	<input checked="" type="checkbox"/> Language
<input type="checkbox"/> CATV		<input type="checkbox"/> Pin Code Registration	<input type="checkbox"/> Pin Code Registration
<input checked="" type="checkbox"/> V-Chip			
<input checked="" type="checkbox"/> Control Level	<input checked="" type="checkbox"/> Sound	<input checked="" type="checkbox"/> Brightness	<input checked="" type="checkbox"/> Contrast
	<input checked="" type="checkbox"/> Color	<input checked="" type="checkbox"/> Tint(NTSC Only)	<input checked="" type="checkbox"/> Sharpness
	<input type="checkbox"/> Tuning	<input type="checkbox"/> Bass	<input type="checkbox"/> Treble
	<input type="checkbox"/> Balance	<input type="checkbox"/> Back Light	
<input type="checkbox"/> Stereo,Audio Output,Bilingual		<input type="checkbox"/> Picture Menu	
<input type="checkbox"/> Stereo,Audio Output,SAP		<input type="checkbox"/> Mid Night Theater	
<input type="checkbox"/> Stereo,Audio Output		<input type="checkbox"/> GAME	
<input type="checkbox"/> CH/AV	<input type="checkbox"/> Clock	<input type="checkbox"/> Pin Code	<input type="checkbox"/> Hotel Lock
<input type="checkbox"/> Sleep Timer	<input checked="" type="checkbox"/> Sound Mute	<input checked="" type="checkbox"/> Channel	

G-26.OSD Language

<input checked="" type="checkbox"/> Eng	<input type="checkbox"/> Ger	<input checked="" type="checkbox"/> Fre	<input checked="" type="checkbox"/> Spa	<input type="checkbox"/> Ita	<input type="checkbox"/> Por	<input type="checkbox"/> Jpn
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OSD Language Setting

<input checked="" type="checkbox"/> Eng	<input type="checkbox"/> Ger	<input type="checkbox"/> Fre	<input type="checkbox"/> Spa	<input type="checkbox"/> Ita	<input type="checkbox"/> Por	<input type="checkbox"/> Jpn
<input type="checkbox"/> 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

<input checked="" type="checkbox"/> Owner's Manual (<input checked="" type="checkbox"/> W/Guarantee Card) [English/French]	
<input type="checkbox"/> Channel Film	<input checked="" type="checkbox"/> Remote Control Unit
<input type="checkbox"/> AC Plug Adapter	
<input type="checkbox"/> Battery (UM- <u>4</u> x <u>2</u>)	<input type="checkbox"/> Toll Free Insert Sheet
<input type="checkbox"/> Safety Tip	<input type="checkbox"/> Audio-Video Cord (RCA)
<input type="checkbox"/> Guarantee Card	<input type="checkbox"/> Warning Sheet
<input type="checkbox"/> Registration Card	<input type="checkbox"/> Schematic Diagram
<input type="checkbox"/> Quick Set-Up Sheet	<input type="checkbox"/> U/V Mixer
<input type="checkbox"/> Information Sheet	<input type="checkbox"/> Double Shield)
<input type="checkbox"/> 75 ohm Coaxial Cable (<input type="checkbox"/> Single Shield	
<input type="checkbox"/> 300 ohm to 75 ohm VHF Antenna Adaptor	<input type="checkbox"/> Car Cord
<input type="checkbox"/> 21pin Cable	
<input checked="" type="checkbox"/> Rod Antenna	
<input checked="" type="checkbox"/> One Pole <input type="checkbox"/> Two Pole (<input checked="" 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 type="checkbox"/> SAP	<input type="checkbox"/> Comb Filter
<input checked="" type="checkbox"/> CATV	<input type="checkbox"/> Channel Lock	<input checked="" type="checkbox"/> Auto CH Memory
<input type="checkbox"/> Anti-Theft	<input type="checkbox"/> Just Clock Function	<input type="checkbox"/> Hotel Lock
<input type="checkbox"/> Rental	<input type="checkbox"/> Game Position	<input type="checkbox"/> Fastext
<input type="checkbox"/> Unitext	<input type="checkbox"/> TopText	<input checked="" type="checkbox"/> Closed Caption
<input type="checkbox"/> Picture Menu	<input type="checkbox"/> Mid Night Theater	<input checked="" type="checkbox"/> V-Chip

G-32.Switch

Front

<input type="checkbox"/> Power(Tact)	<input checked="" type="checkbox"/> Channel Up	<input checked="" type="checkbox"/> Volume Up
<input type="checkbox"/> System Select	<input checked="" type="checkbox"/> Channel Down	<input checked="" type="checkbox"/> Volume Down
<input type="checkbox"/> Main Power SW	<input checked="" type="checkbox"/> Sub Power	

Rear

<input type="checkbox"/> AC/DC	<input type="checkbox"/> TV/CATV Selector
<input type="checkbox"/> Degauss	<input type="checkbox"/> 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 Selecyc	<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.

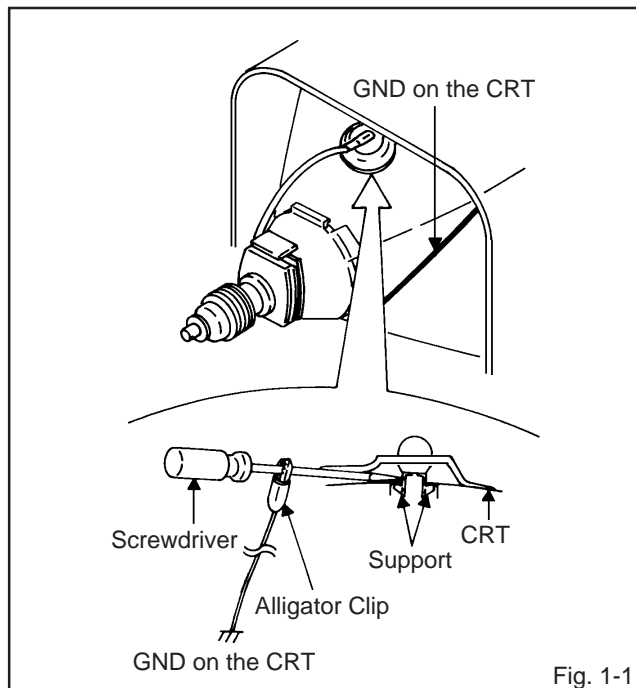


Fig. 1-1

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.)

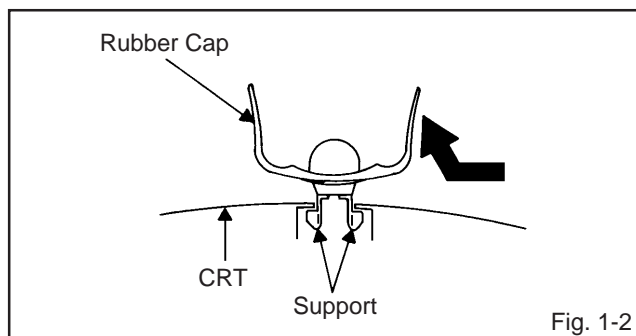


Fig. 1-2

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.)

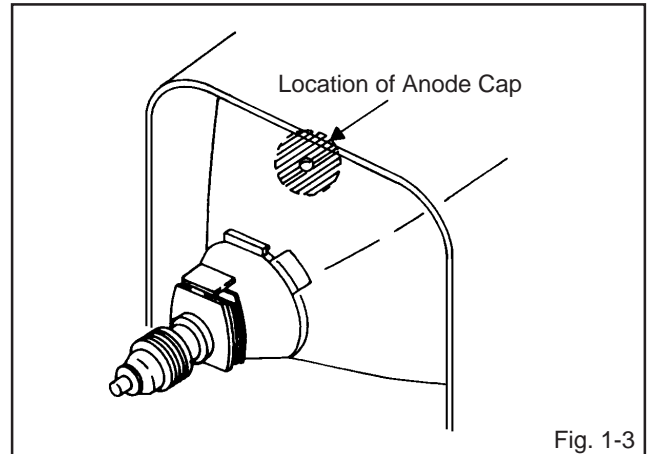


Fig. 1-3

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.)

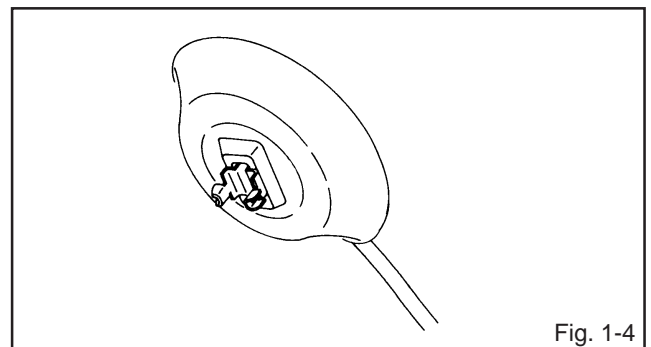


Fig. 1-4

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

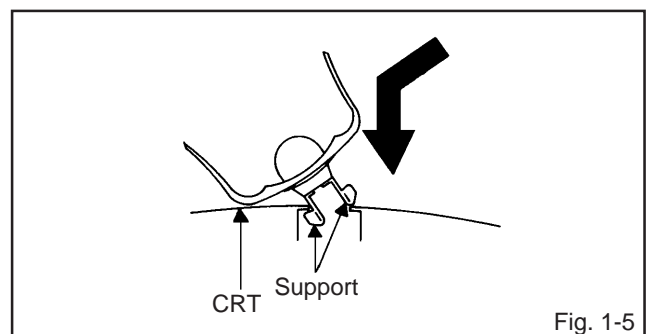


Fig. 1-5

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

SERVICE MODE LIST

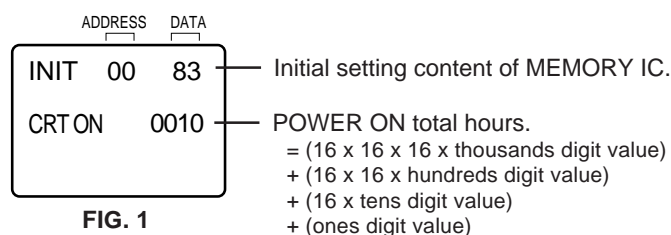
This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.
To enter the Service Mode, press both set key and remote control key for more than 2 seconds.

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.



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.

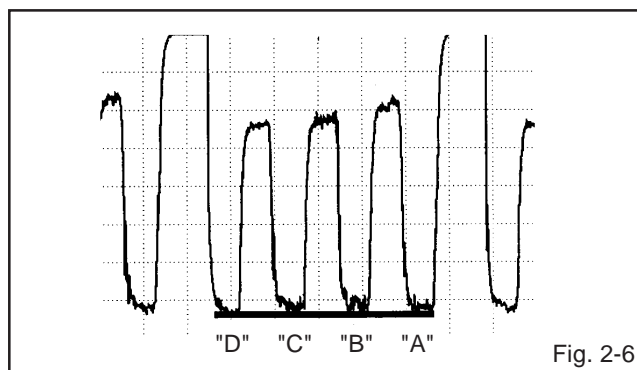
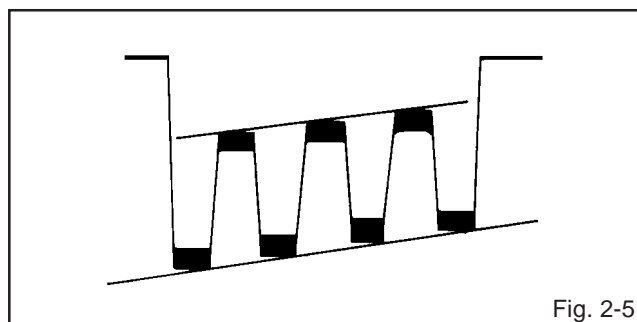
1. BRIGHT
2. CONTRAST
3. COLOR
4. TINT
5. SHARPNESS
6. OSD CONT
- 7.
8. 0. RETURN

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.



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.

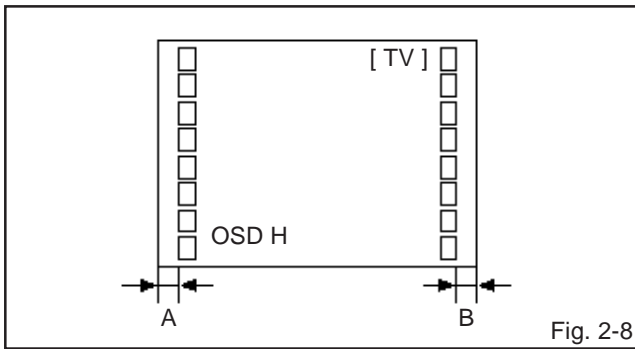
2-10: HORIZONTAL PHASE

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



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.

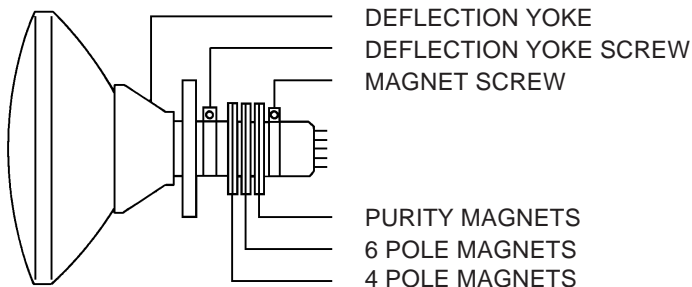


Fig. 3-1

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)**

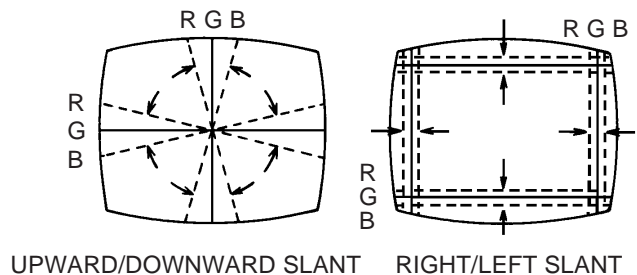


Fig. 3-2-a

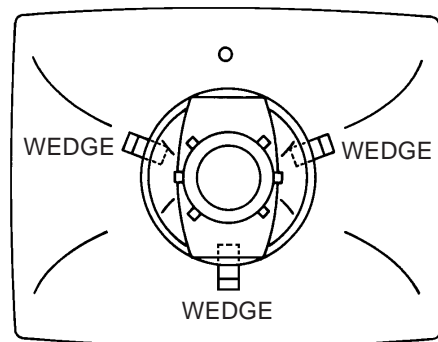
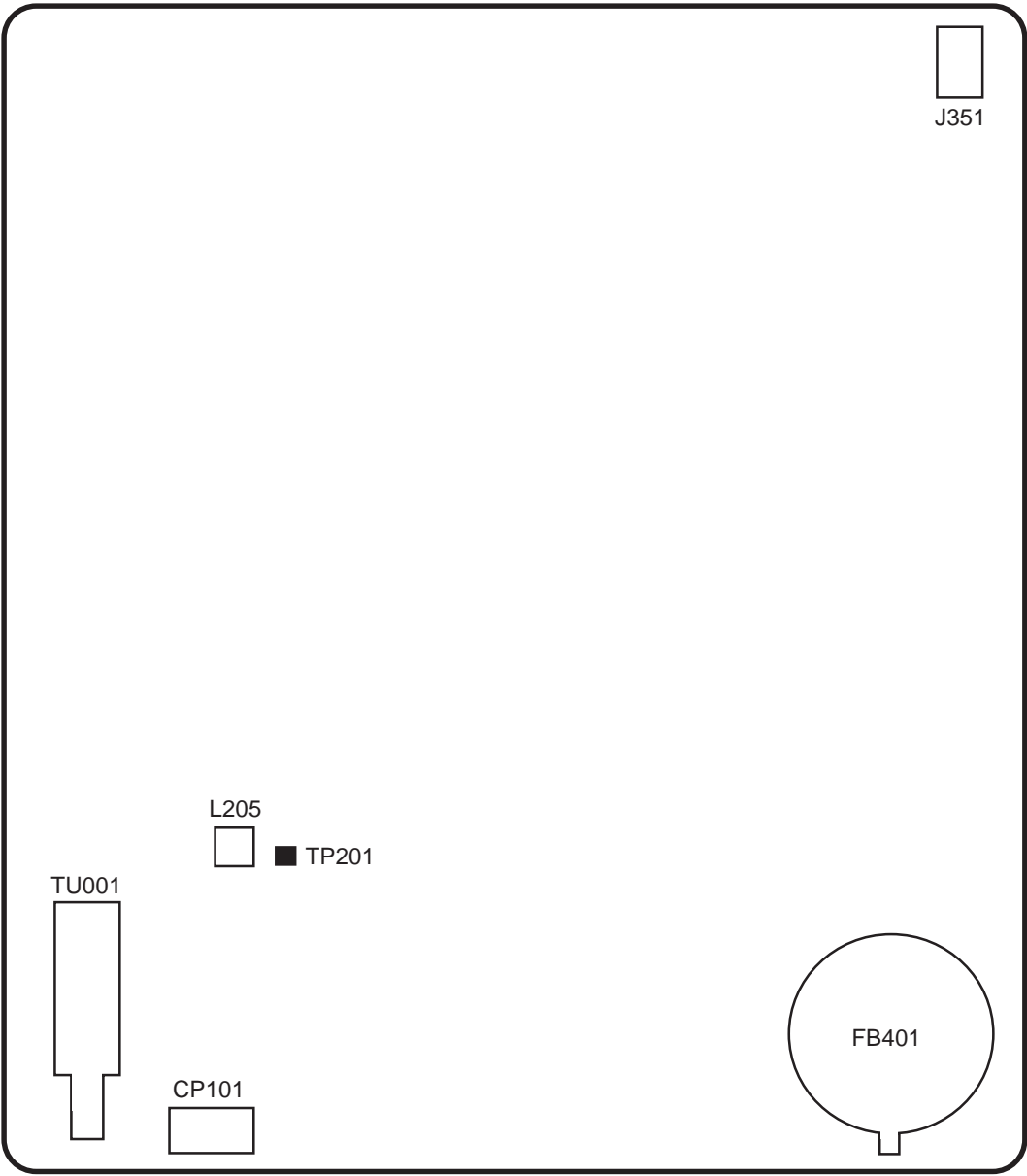


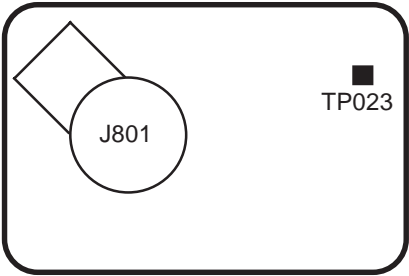
Fig. 3-2-b

MAJOR COMPONENTS LOCATION GUIDE



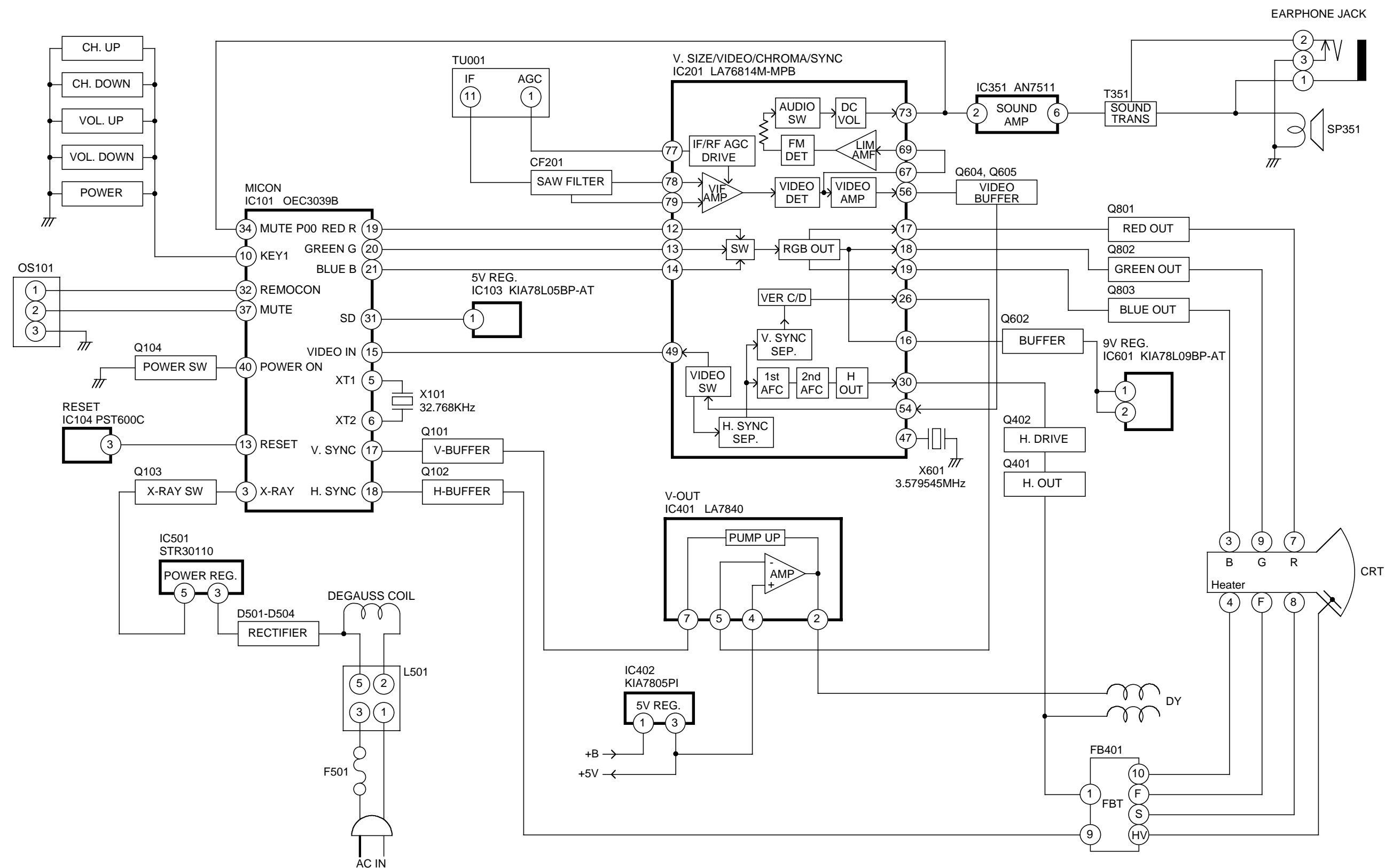
FOCUS VOLUME
SCREEN VOLUME

MAIN

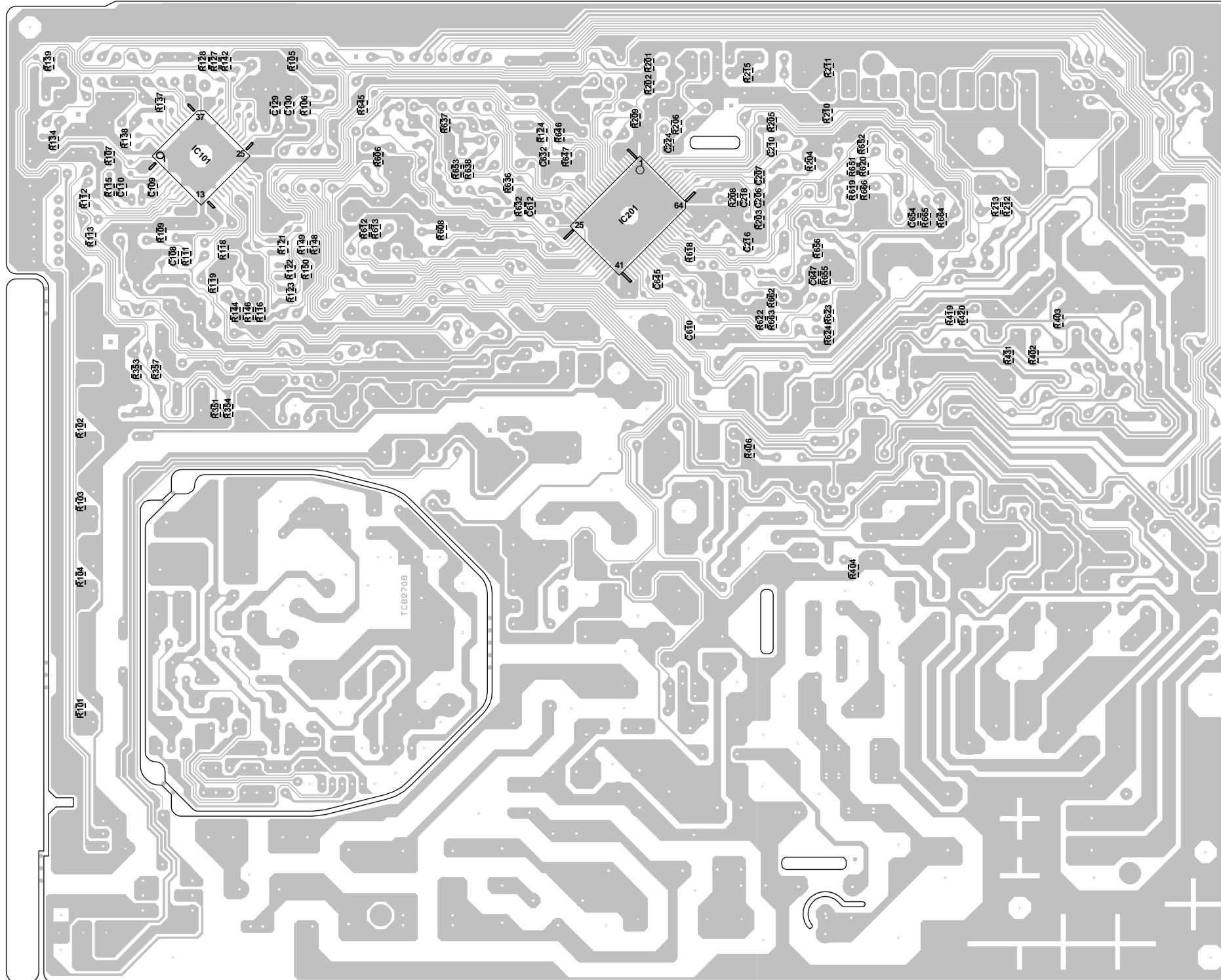


CRT

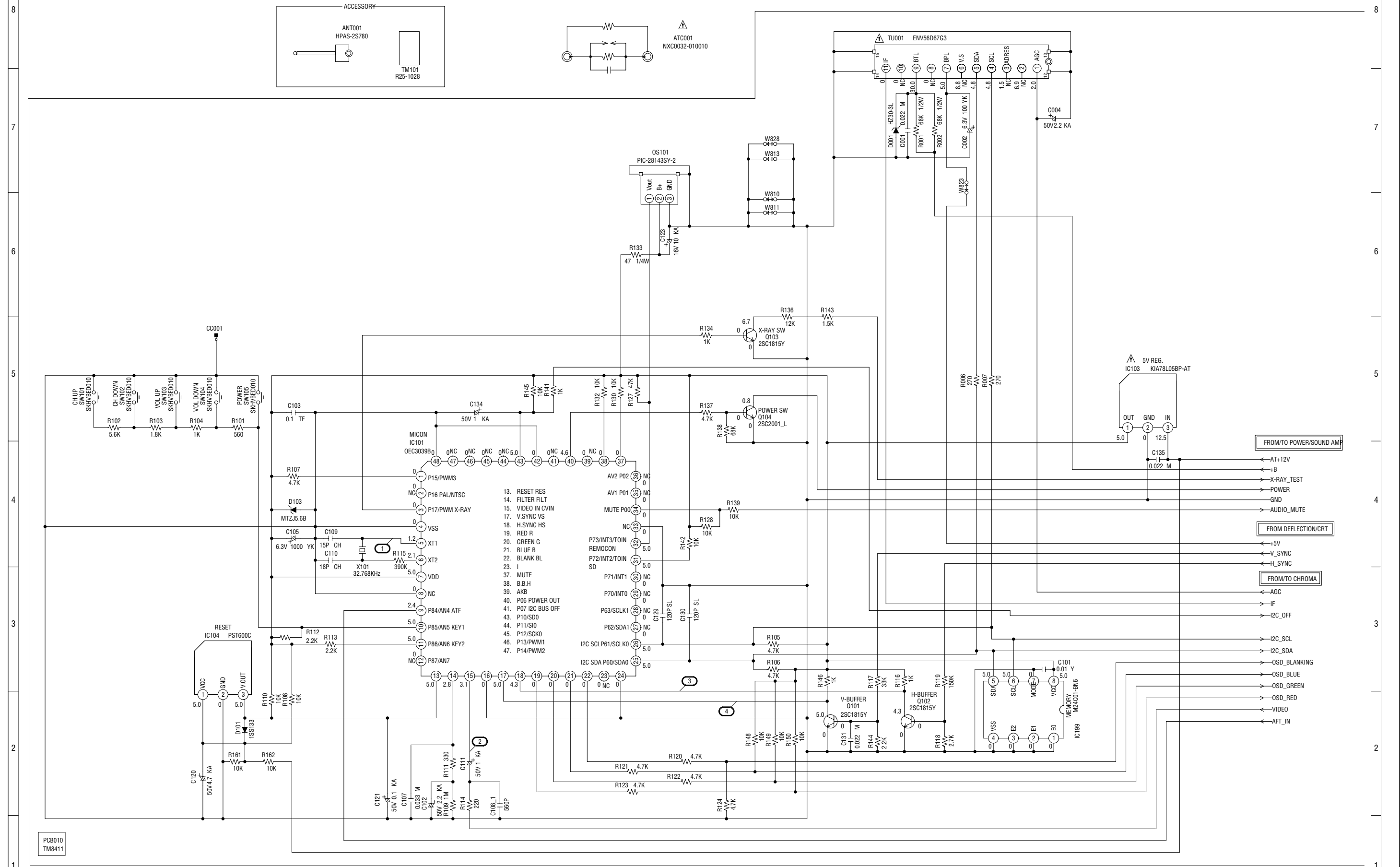
BLOCK DIAGRAM



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



MICON/TUNER SCHEMATIC DIAGRAM



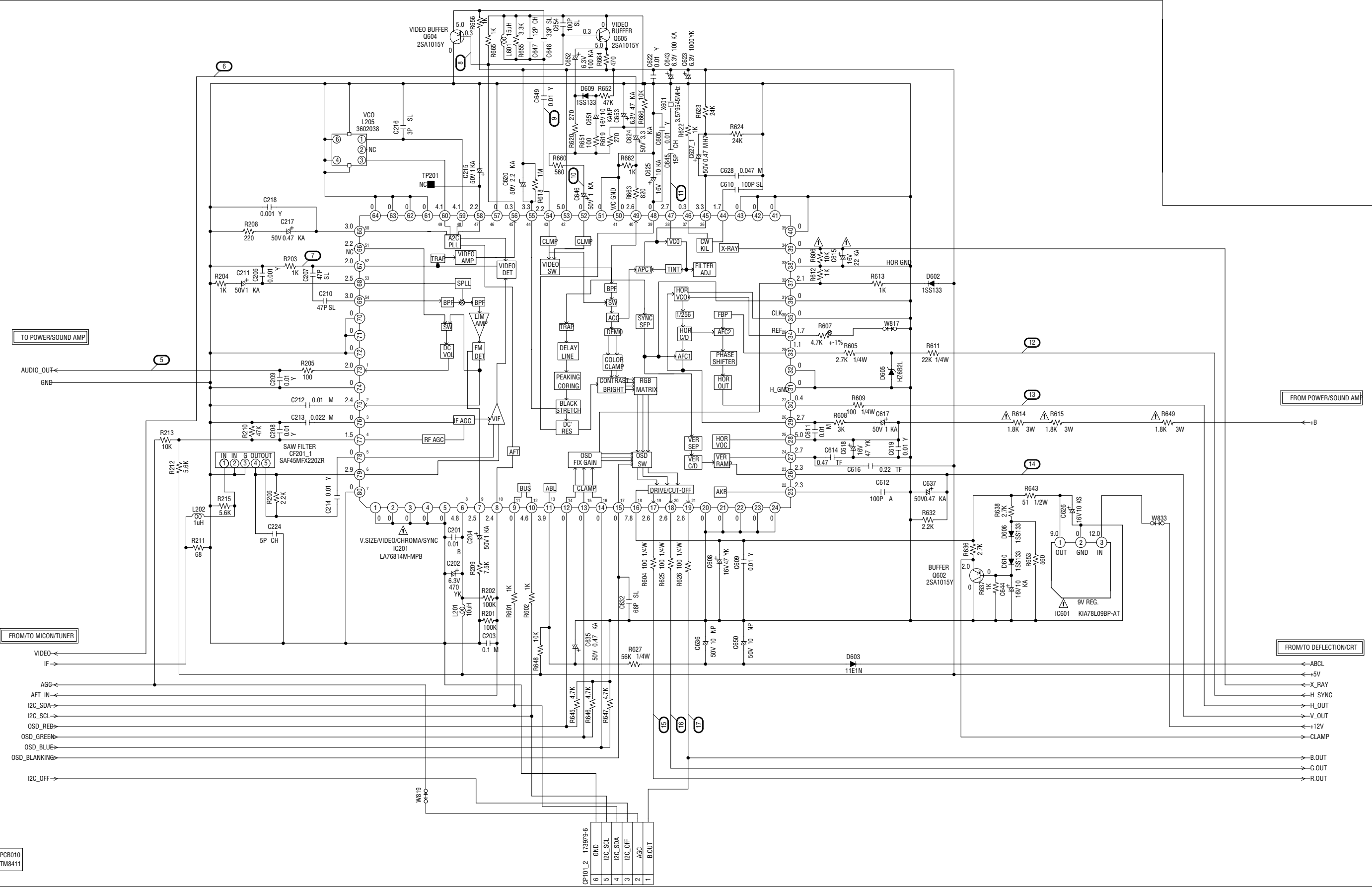
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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 AU POINT DE VUE SÉCURITÉ, N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.


CHROMA SCHEMATIC DIAGRAM



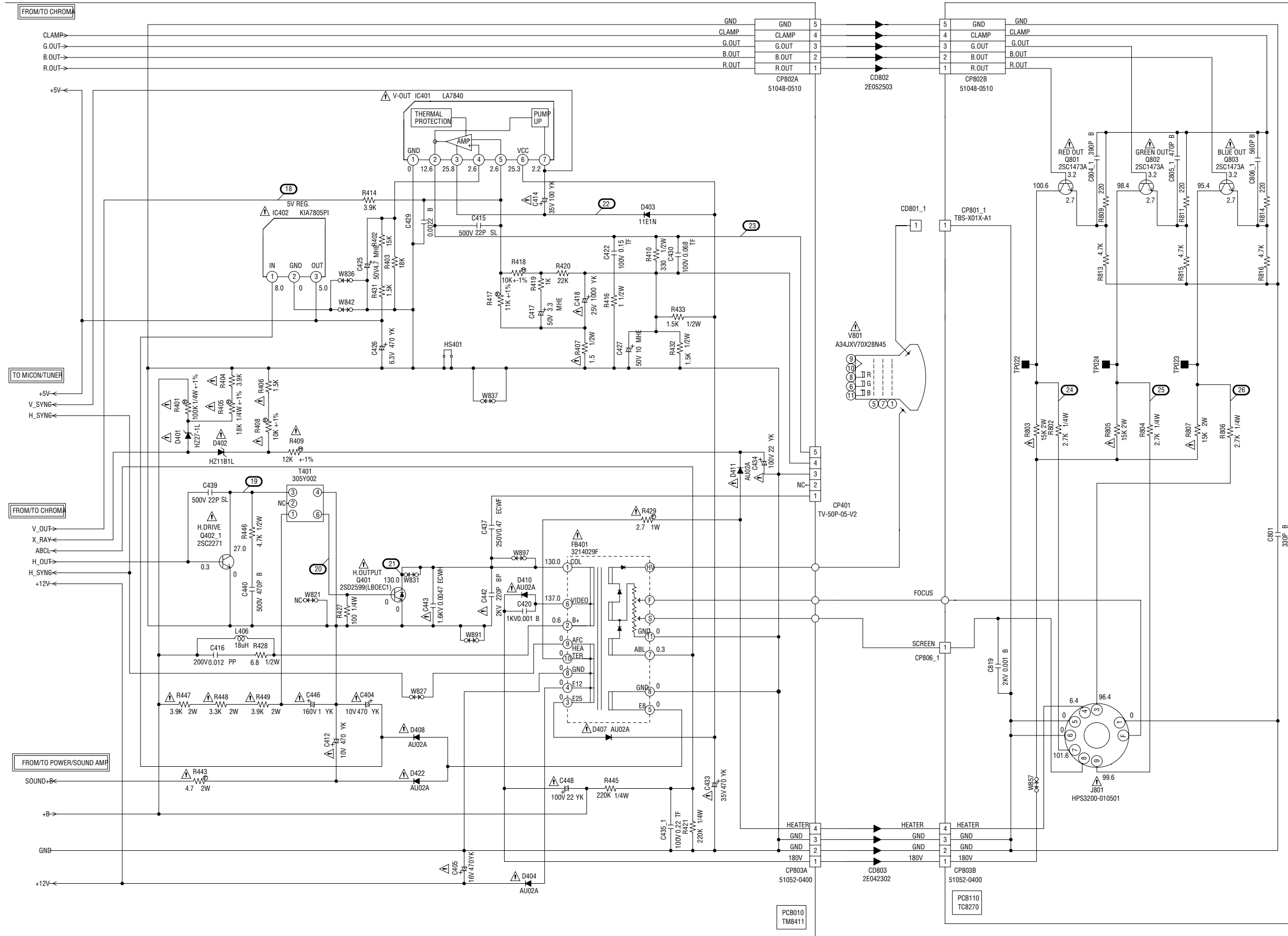
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

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


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.

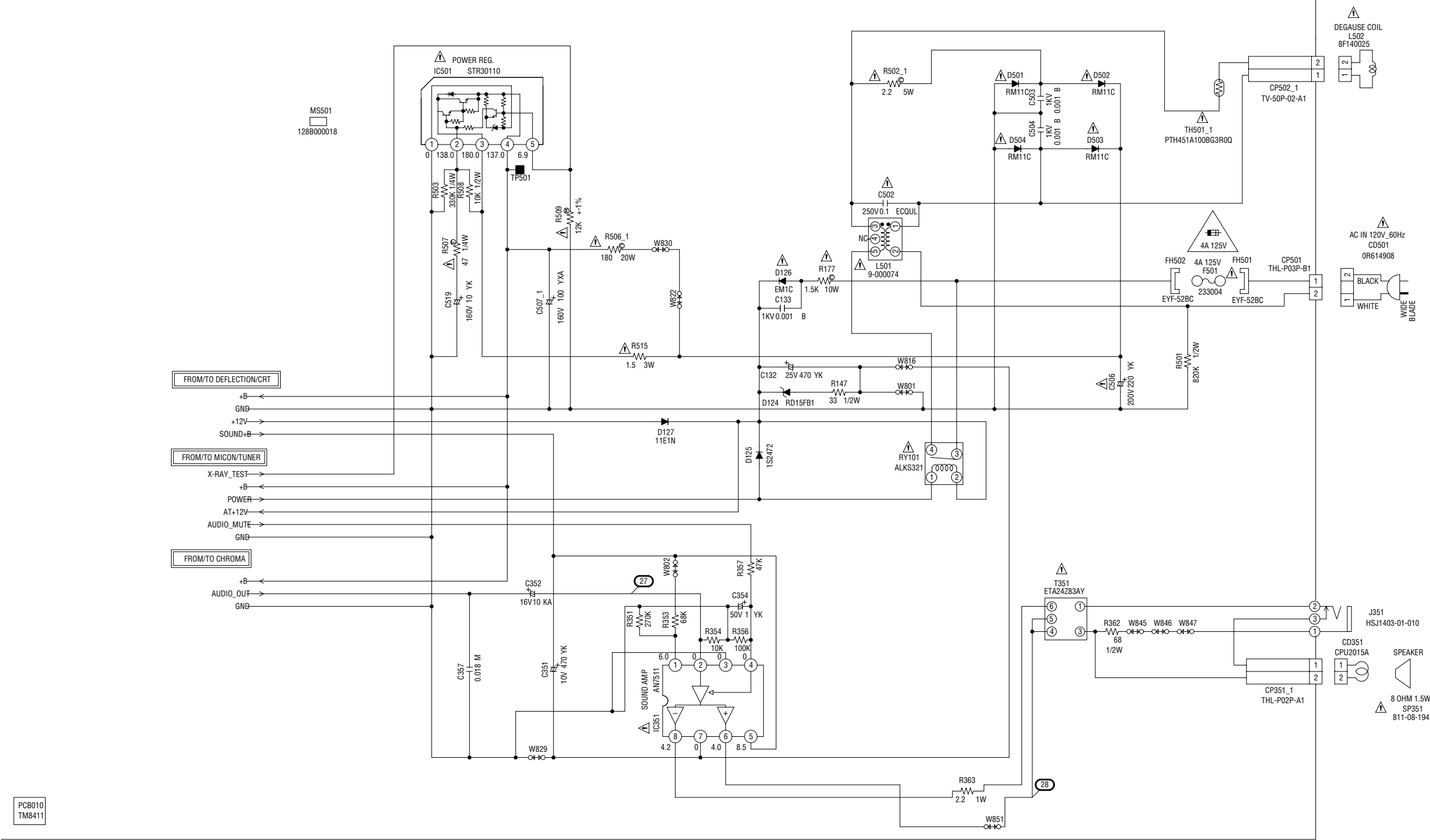
CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY .

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

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 .

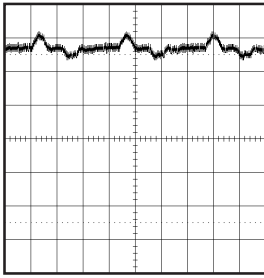
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

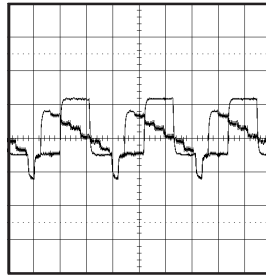
ATTENTION: LES PIECES REPAREES PAR UN  ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES.

WAVEFORMS

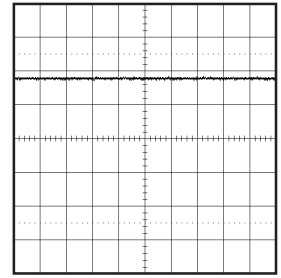
MICON/TUNER



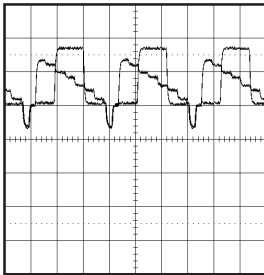
① 200mV. 5ms/div



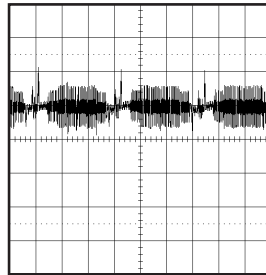
⑥ 0.5V. 20μs/div



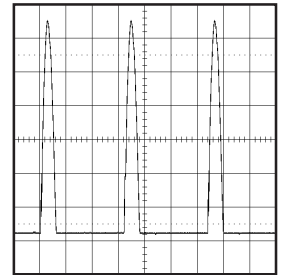
⑪ 1V. 0.5ms/div



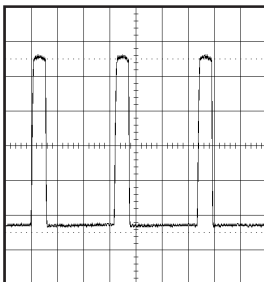
② 0.5V. 20μs/div



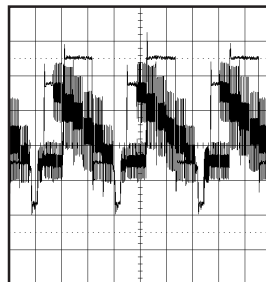
⑦ 0.5V. 20μs/div



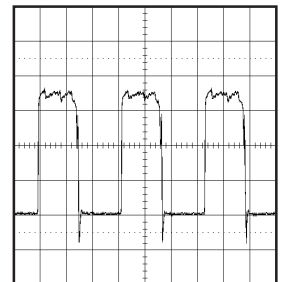
⑫ 20V. 20μs/div



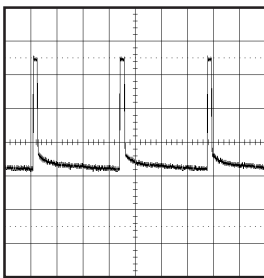
③ 200mV. 20μs/div



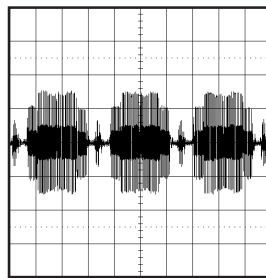
⑧ 0.5V. 20μs/div



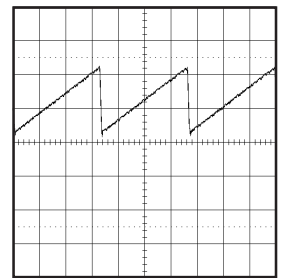
⑬ 200mV. 20μs/div



④ 200mV. 5ms/div

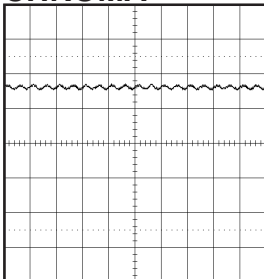


⑨ 200mV. 20μs/div

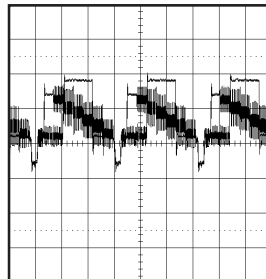


⑭ 0.5V. 5ms/div

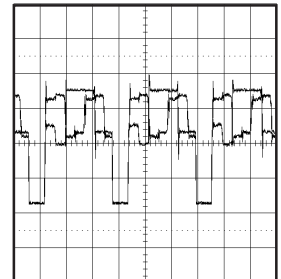
CHROMA



⑤ 0.5V. 2ms/div



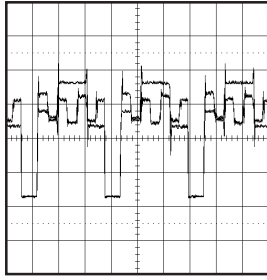
⑩ 0.5V. 20μs/div



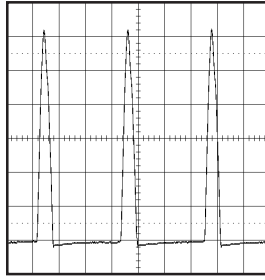
⑮ 1V. 20μs/div

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

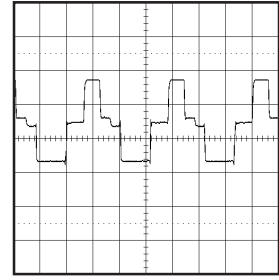
WAVEFORMS



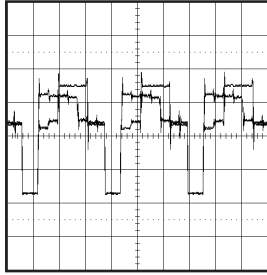
①⑥ 1V. 20μs/div



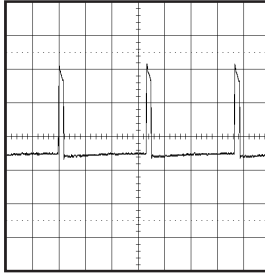
②① 200V. 20μs/div



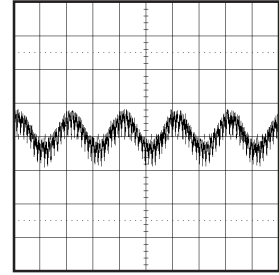
②⑥ 50V. 20μs/div



①⑦ 1V. 20μs/div



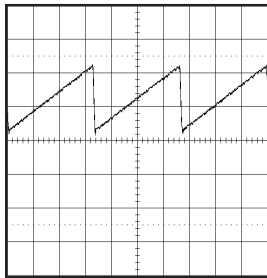
②② 10V. 5ms/div



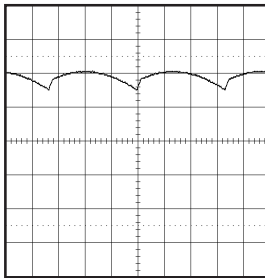
②⑦ 50mV. 0.5ms/div

POWER/SOUND AMP

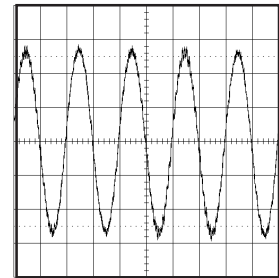
DEFLECTION/CRT



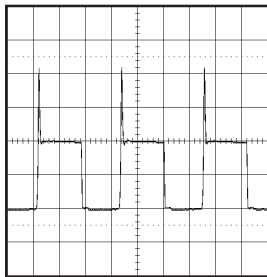
①⑧ 0.5V. 5ms/div



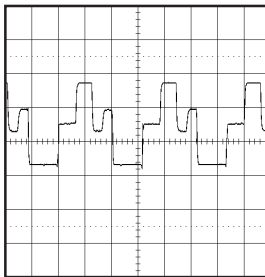
②③ 5V. 5ms/div



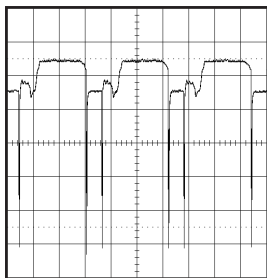
②⑧ 200mV. 0.5ms/div



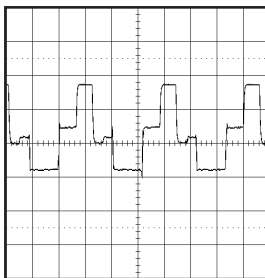
①⑨ 20V. 20μs/div



②④ 50V. 20μs/div



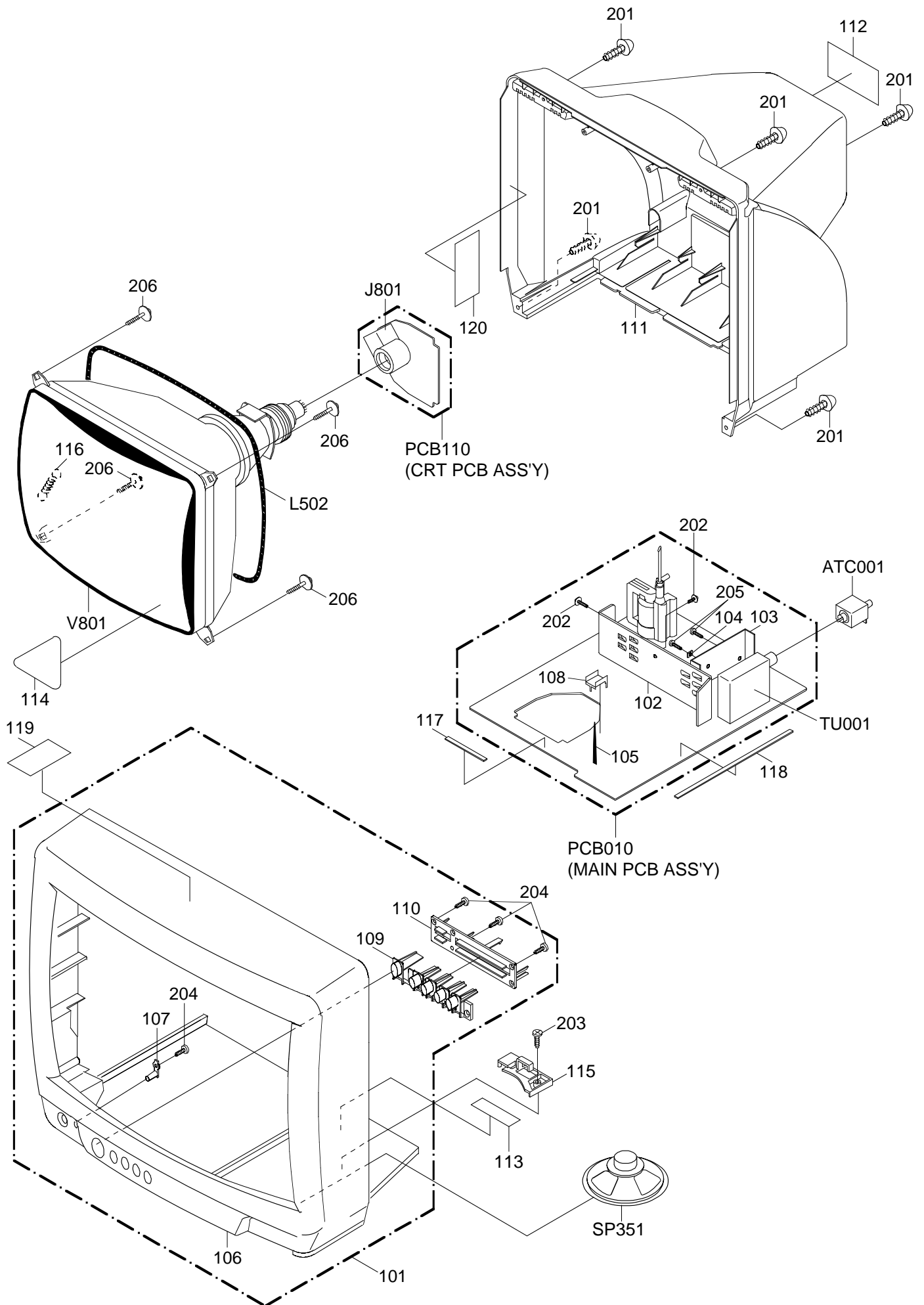
②⑩ 2V. 20μs/div



②⑤ 50V. 20μs/div

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

MECHANICAL EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION			
101	A3H202C720	CABINET,FRONT ASS'Y			
102	---	HEAT SINK			
103	---	HEAT SINK			
104	---	METAL SPACER			
105	---	COATING CLIP			
106	701WPAJA543	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