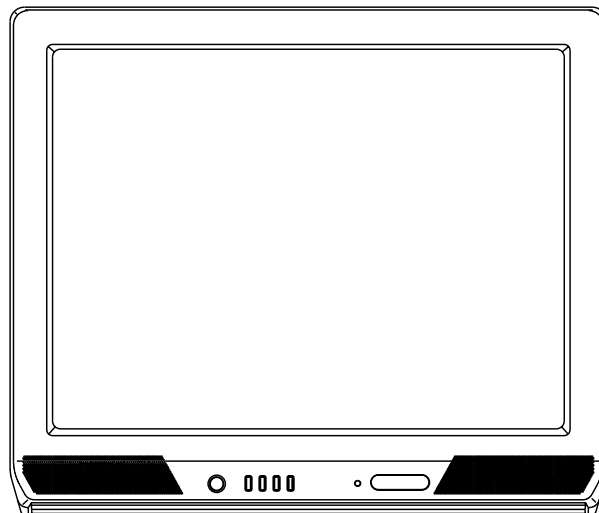


DURABRAND

DBTV2501 SERIES A

SERVICE MANUAL

COLOR TELEVISION RECEIVER



**ORIGINAL
MFR'S VERSION A**

DURABRAND

DBTV2501 SERIES A

SERVICE MANUAL







COLOR TELEVISION RECEIVER

**ORIGINAL 1
MFR'S VERSION B**

MFR'S VERSION	CRT
A	A63AHC26X
B	A63ADT15*08

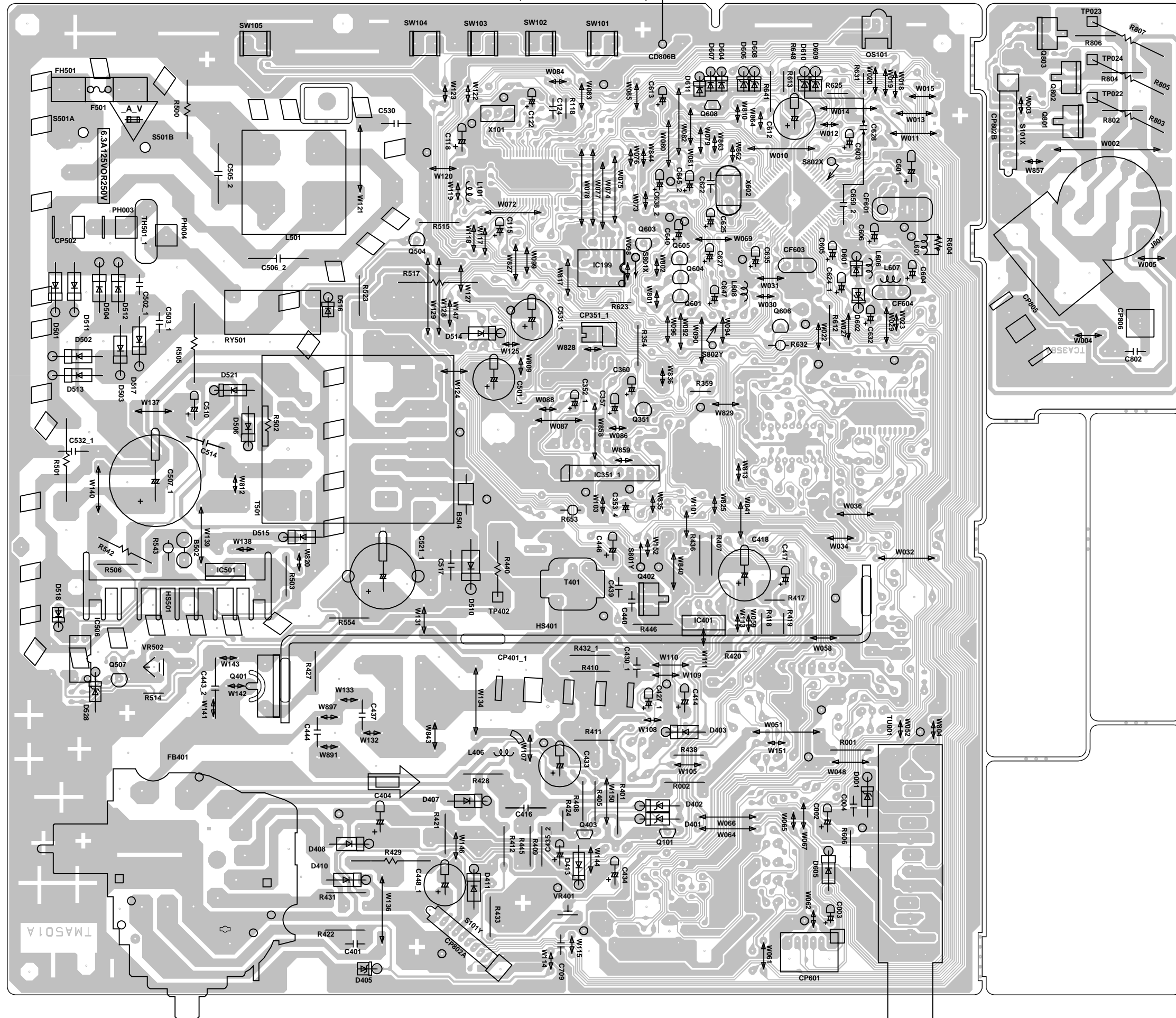
Change of CRT

ELECTRICAL REPLACEMENT PARTS LIST

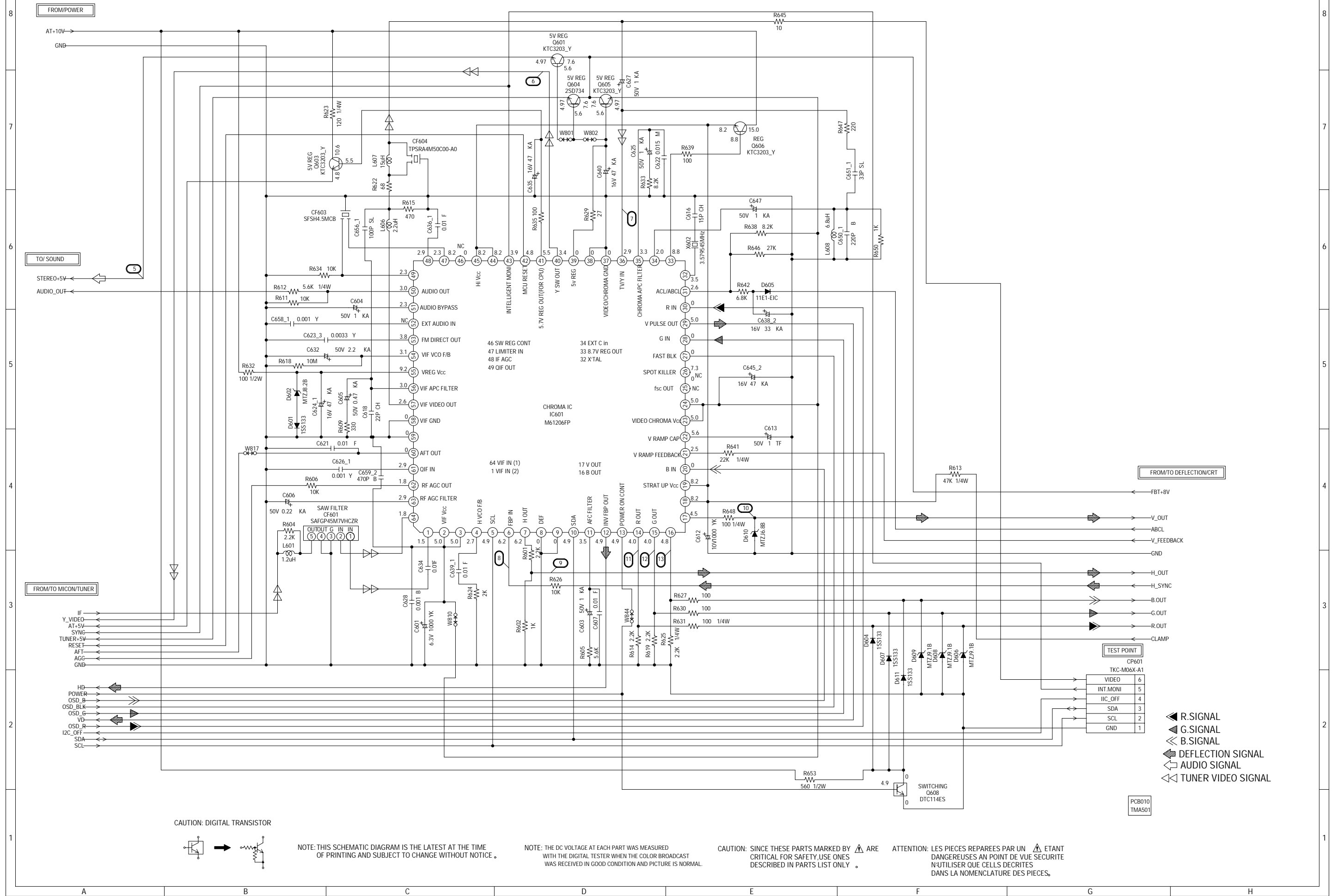
REF. NO.	MFR'S VERSION A		MFR'S VERSION B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
 R406	R903N8332J	RC 3.3K OHM 1/8W	R903N8100J	RC 10 OHM 1/8W
 R408	R4X5T6183F	R,METAL 18K OHM 1/6W	R4X5T6273F	R,METAL 27K OHM 1/6W
R410			R002T2821J	RC 820 OHM 1/2W
R411	R002T2561J	RC 560 OHM 1/2W	R002T2102J	RC 1K OHM 1/2W
R412			R002T2271J	RC 270 OHM 1/2W
R413	R002T2681J	RC 680 OHM 1/2W		DEL
 R415	R3X181471J	R,METAL OXIDE 470 OHM 1W		DEL
R416	R0L2U2102J	RC 1K OHM 1/2W		DEL
R418	R002T4223J	RC 22K OHM 1/4W	R002T4273J	RC 27K OHM 1/4W
R419	R002T4182J	RC 1.8K OHM 1/4W	R002T4122J	RC 1.2K OHM 1/4W
R420	R002T4103J	RC 10K OHM 1/4W	R002T4682J	RC 6.8K OHM 1/4W
 R429	R6558A1R8J	R,FUSE 1.8 OHM 2W	R6558A2R7J	R,FUSE 2.7 OHM 2W
R432			R002T2821J	RC 820 OHM 1/2W
R433			R002T2271J	RC 270 OHM 1/2W
R438			R002T2151J	RC 150 OHM 1/2W
R553	R903N8182J	RC 1.8K OHM 1/8W	R903N8472J	RC 4.7K OHM 1/8W
R613			R002T4473J	RC 47K OHM 1/4W
R638	R903N8103J	RC 10K OHM 1/8W	R903N8822J	RC 8.2K OHM 1/8W
C401			C0JTB0512K	CC 100 PF 500V B
C427			E50HU5100M	CE 10 UF 50V
C444			C0JLYR713K	CC 0.001 UF 2KV YR
VR401			V1163H3BTC	VOLUME,SEMI FIXED EVNCYAA03BE3
PCB010	A3K004G01A	MAIN PCB ASS'Y TMA501A	A3K004I010K	MAIN PCB ASS'Y (VERSION B) TMA501A
C809	CS0KW04W2M	CC 820 PF 50V W	CS0KW04U2M	CC 680 PF 50V W
C810	CS0KW04S2M	CC 560 PF 50V W	CS0KB04Q2K	CC 470 PF 50V B
C811	CS0KW04U2M	CC 680 PF 50V W	CS0KW04S2M	CC 560 PF 50V W
PCB110	A3K004G11G	CRT PCB ASS'Y TCA358A	A3K004I110K	CRT PCB ASS'Y (VERSION B) TCA358A
CD804			06CU34002A	CORD CONNECTOR SM1198-002-1A
 DY801	027M062505	DY 7M062505		DEL
K001	129A000010	WEDGE 8115529		DEL
K002	129A000010	WEDGE 8115529		DEL
K003	129A000010	WEDGE 8115529		DEL
MG801	026A062704	MAGNET,CONVERGENCE 29MMSTAR		DEL
 V801	0984250502	CRT A63AHC26X	0984250503	CRT W/DY A63ADT15*08

MAIN PCB's and CRT PCB's are not interchangeable.

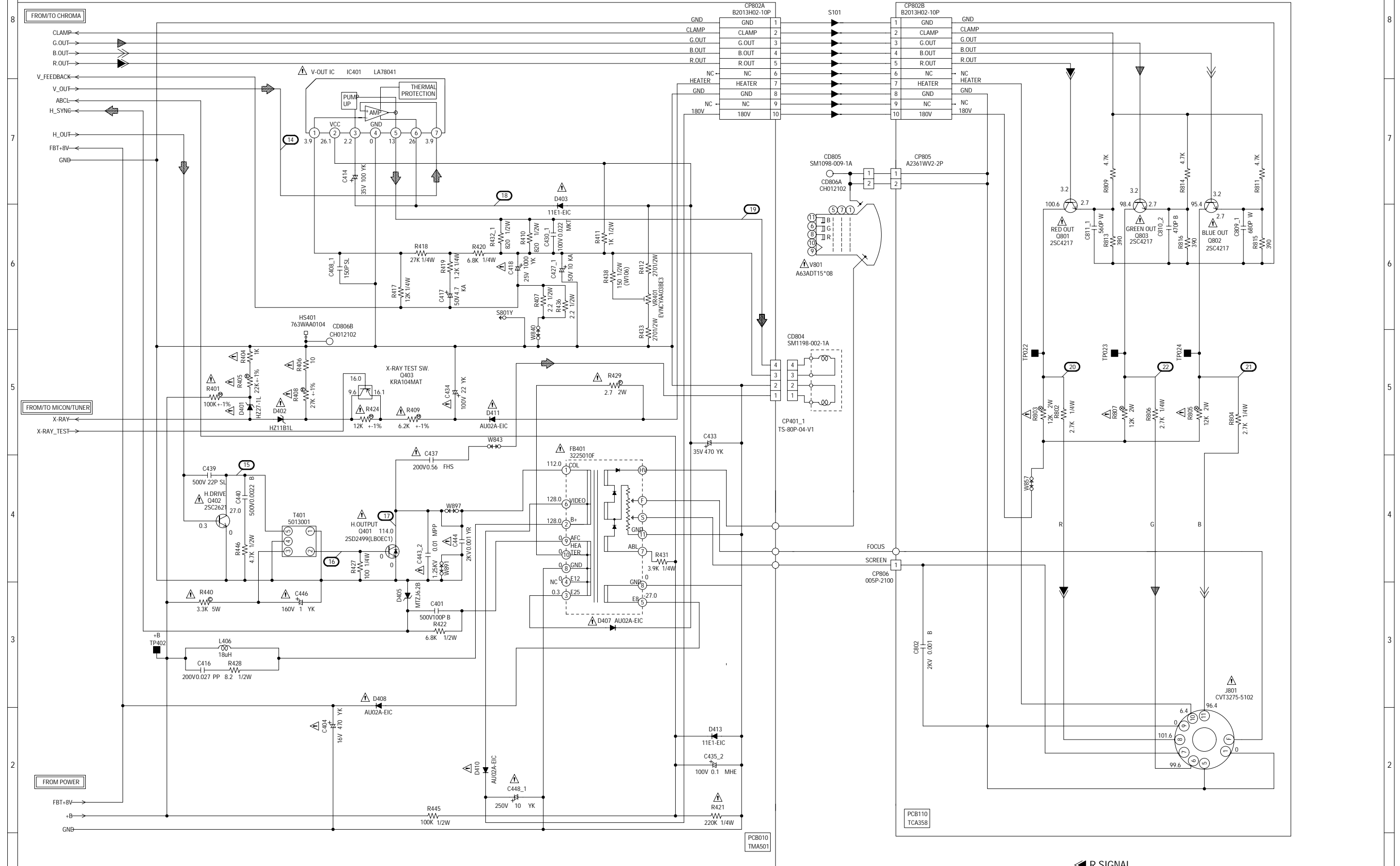
SOLDER SIDE
(MFR'S VERSION B)



CHROMA SCHEMATIC DIAGRAM (MAIN PCB) (MFR'S VERSION B)




DEFLECTION/CRT SCHEMATIC DIAGRAM (MAIN PCB) (MFR'S VERSION B)




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

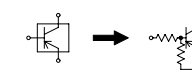
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP
IS NON POLAR ONE.

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.

CAUTION: DIGITAL TRANSISTOR



- ◀ R.SIGNAL
- ◀ G.SIGNAL
- ◀ B.SIGNAL
- ◀ DEFLECTION SIGNAL

SPEC.NO.	M3K0-04I
O/R NO.	A173518

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

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	TV System	CRT	CRT Size / Visual Size		25 inch / 626mmV	
			CRT Type		Normal	
			Deflection		100 degree	
			Magnetic Field	BV/BH	+0.45G/0.18G	
		Color System				NTSC
		Speaker				2Speaker
			Position		Front	
			Size		1.5 x 2.7 Inch	
			Impedance		4 ohm	
		Sound Output	MAX	0.75 + 0.75 W		
			10%(Typical)	0.5 + 0.5 W		
			NTSC3.58+4.43 /PAL60Hz			No
G-2	Tuning System	Broadcasting System		US System M		
		Tuner and	System	1Tuner		
		Receive CH	Destination	Others		
			Tuning System	F-Synth		
			Input Impedance	VHF/UHF 75 ohm		
			CH Coverage	2 - 69, 4A, A-5 - A-1, A - I, J - W, W+1 - W+84		
		Intermediate	Picture(FP)	45.75MHz		
		Frequency	Sound(FS)	41.25MHz		
			FP-FS	4.50MHz		
		Preset CH			No	
		Stereo/Dual TV Sound			No	
		Tuner Sound Muting			Yes	
G-3	Power	Power Source	AC	120V AC 60Hz		
			DC			
		Power Consumption	at AC			
			Stand by (at AC)	110 W at AC 120 V 60 Hz		
			Per Year	8 W at AC 120 V 60 Hz		
	Protector	Power Fuse	-- kWh/Year			
G-4	Regulation	Safety	Yes			
		Radiation	UL /CSA			
		X-Radiation	FCC /DOC			
			DHHS/HWC			
G-5	Temperature	Operation	+5oC ~ +40oC			
		Storage	-20oC ~ +60oC			
G-6	Operating Humidity			Less then 80% RH		
G-7	On Screen Display	Menu	Yes			
		Menu Type	Character			
		Picture	Yes			
			Contrast	Yes		
			Brightness	Yes		
			Color	Yes		
			Tint	Yes		
			Sharpness	Yes		
		Audio				
			Bass	No		
			Treble	No		
			Balance	No		
			BBE On/Off	No		
			Stable Sound On/Off	No		
		CH Set Up				
			TV/CATV	Yes		
			CH Program	Yes		
			Add/Erase	Yes		
		Language				
		V-chip				
			CH Label	No		
			Favorite CH	No		
			Color Stream DVD/DTV	No		
		Control Level				
			Volume	Yes		
			Brightness	Yes		
			Contrast	Yes		
			Color	Yes		
			Tint (NTSC Only)	Yes		
			Sharpness	Yes		
			Tuning	No		
			Bass	No		
			Treble	No		
			Balance	No		
			Back Light	No		
		Stereo,Audio Output,SAP				
		Video				
		Color Stream				
		Channel(TV/Cable)	Yes			
		CH Label	No			
		Sleep Timer	Yes			
		Sound Mute	Yes			
		V-chip Rating	Yes			

GENERAL SPECIFICATIONS

G-8	OSD Language	OSD Language Setting		English	French	Spanish
G-9	Clock and Timer	Sleep Timer	Max Time	120 Min		
			Step	10 Min		
		On/Off Timer	Program(On Tim / Off Tim)	No		
		Wake Up Timer		No		
		Timer Back-up (at Power Off Mode)	more than	--	Min	Sec
G-10	Remote Control	Unit		RC-DW		
		Glow in Dark Remocon		No		
		Format		NEC		
		Custom Code		86-05 h		
		Power Source	Voltage(D.C)	3V		
			UM size x pcs	UM-4 x 2 pcs		
		Total Keys		26 Keys		
		Keys	Power	Yes		
			1	Yes		
			2	Yes		
			3	Yes		
			4	Yes		
			5	Yes		
			6	Yes		
			7	Yes		
			8	Yes		
			9	Yes		
			0	Yes		
			100		No	
			CH Up	Yes		
			CH Down	Yes		
			Volume Up	Yes		
			Volume Down	Yes		
			TV/Caption/Text	Yes		
			CH1/CH2	Yes		
			TV/Video(TV/AV)		No	
			CH RTN/CH ENT(Quick View)	Yes		
			Sleep	Yes		
			RE Call(Call)	Yes		
			Reset	Yes		
			Menu	Yes		
			Enter	Yes		
			Mute	Yes		
			Exit		No	
			MTS(Audio Select)		No	
			Set +	Yes		
			Set -	Yes		
		Multi Brand Keys	CH Up(VCR)		No	
			CH Down(VCR)		No	
			Pause/Still		No	
			TV/VCR(VCR)		No	
			Code		No	
			FF		No	
			Rew		No	
			Rec		No	
			Play		No	
			Stop		No	
			TV		No	
			VCR		No	
			Cable		No	

GENERAL SPECIFICATIONS

G-11	Features	Auto Degauss		Yes
		Auto Shut Off		Yes
		Canal+		No
		CATV		Yes
		Anti-theft		No
		Rental		No
		Memory(Last CH)		Yes
		Memory(Last Volume)		Yes
		V-Chip		Yes
		Type		USA,ORION Type
		BBE		No
		Auto Search		No
		CH Allocation		No
		SAP		No
		Channel Lock		No
		Just Clock Function		No
		Game Position		No
		CH Label		No
		VM Circuit		No
		Full OSD		No
		Premiere		No
		Comb Filter		No
				____ Lines
		Auto CH Memory		Yes
		Hotel Lock		No
		Closed Caption		Yes
		Stable Sound		No
		Favorite CH		No
G-12	Accessories	Owner's Manual	Language	English /French
			w/Guarantee Card	Yes
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	
			Terminal	
		Loop Antenna		No
			Terminal	
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Dew/AHC Caution Sheet		No
		AC Plug Adapter		No
		Quick Set-up Sheet		No
		Battery		No
			UM size x pcs	
			OEM Brand	No
		AC Cord		No
		AV Cord (2Pin-1Pin)		No
		Registration Card		No
		PTB Sheet		No
		300 ohm to 75 ohm Antenna Adapter		No

GENERAL SPECIFICATIONS

G-13	Interface	Switch	Front	Power	Yes
				System Select	No
				Main Power SW	No
				Sub Power	No
				Channel Up/Reset	Yes
				Channel Down/Enter	Yes
				Volume Up/Set Up	Yes
				Volume Down/Set Down	Yes
				Menu: Vol Up + Vol Down	Yes
			Rear	AC/DC	No
				TV/CATV Selector	No
				Degauss	No
				Main Power SW	No
		Indicator		Power	No
				Stand-by	No
				On Timer	No
		Terminals	Front	Video Input	No
				Audio Input	No
				Other Terminal	No
			Rear	Video Input(Rear1)	No
				Video Input(Rear2)	No
				Audio Input(Rear1)	No
				Audio Input(Rear2)	No
				Video Output	No
				Audio Output	No
				Euro Scart	No
				Color Stream	No
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				VHF/UHF Antenna Input	F Type
				AC Outlet	No
G-14	Set Size	Approx. W x D x H (mm)		618 x 504 x 525	
G-15	Weight	Net (Approx.)		27kg (59.9 lbs)	
		Gross (Approx.)		29Kg (64.3 lbs)	
G-16	Carton	Master Carton			No
			Content		---- Sets
			Material		-- /--
			Dimensions W x D x H(mm)		-- x -- x --
			Description of Origin		No
		Gift Box			Yes
			Material		Double/White
			Dimensions W x D x H(mm)		689 x 577 x 620
			Design		As per Buyer's
			Description of Origin		Yes
		Drop Test			Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
			Height (cm)		31
				Container Stuffing	
G-17	Cabinet Material	Cabinet Front		PS 94V0 DECABROM	
		Cabinet Rear		PS 94V0 DECABROM	

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.

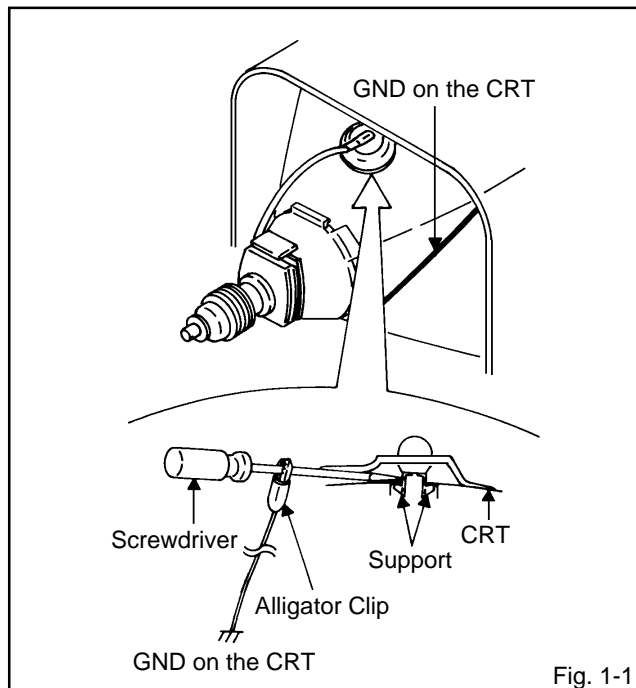


Fig. 1-1

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.)

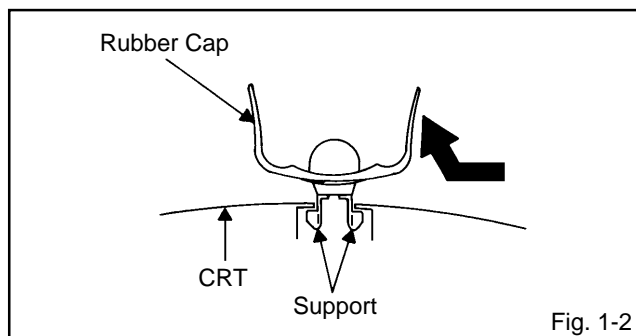


Fig. 1-2

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.)

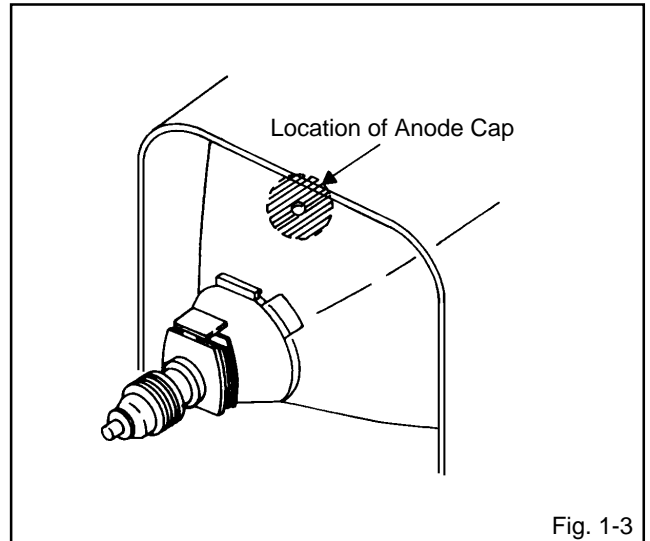


Fig. 1-3

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.)

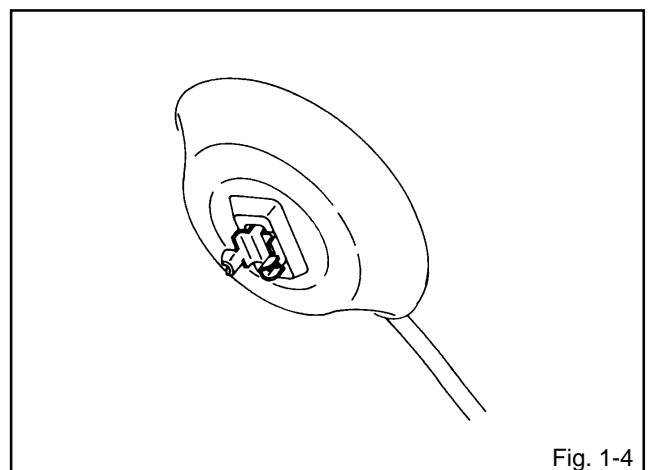
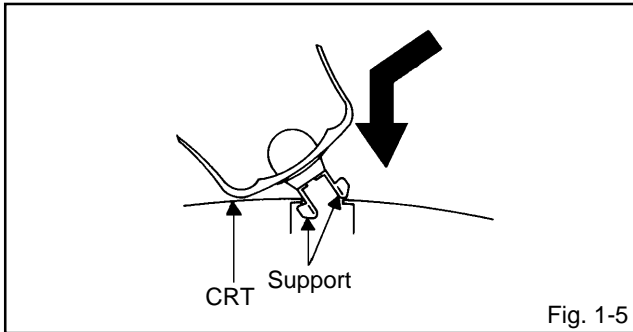


Fig. 1-4

DISASSEMBLY INSTRUCTIONS

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

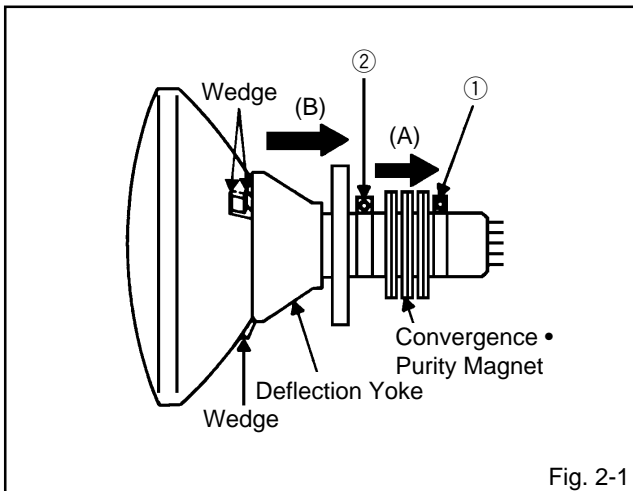


5. Confirm that the Support is securely connected.
6. Put on the Rubber Cap without moving any parts.

2. REMOVAL OF DEFLECTION YOKE

(Refer to Fig. 2-1)

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



INSTALLATION

Install new Deflection Yoke in reverse steps of REMOVAL.

NOTE

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

SERVICE MODE LIST

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.
To enter the Service Mode, press both set key and remote control key for more than 1 second.

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 1 second.
3. After the confirmation of using hours, turn off the power.

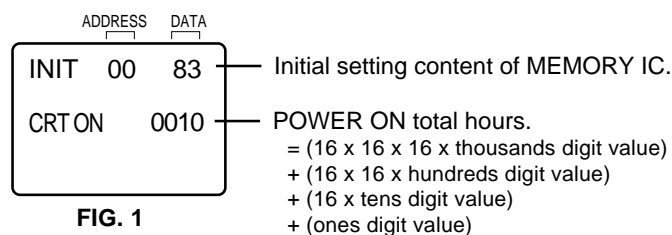


FIG. 1

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.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A
70	A0	5A	A2	39	02	63	24	3A	A1	21	FF

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 1 second. ADDRESS and DATA should appear as FIG 1.
3. 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.
4. Press ENTER to select DATA. When DATA is selected, it will "blink".
5. Again, step through the DATA using SET + or - until required DATA value has been selected.
6. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
7. Repeat steps 3 to 6 until all data has been checked.
8. 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.

Prepare the following measurement tools for electrical adjustments.

1. Synchro Scope
2. Digital Voltmeter

On-Screen Display Adjustment

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

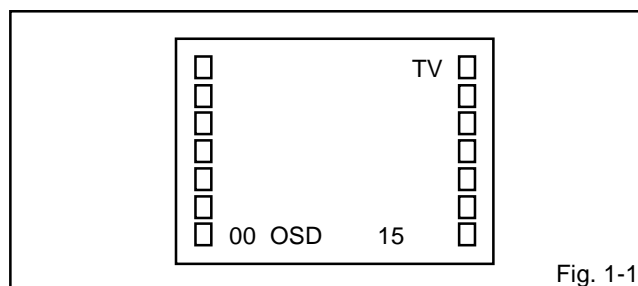


Fig. 1-1

2. Use the channel UP/DOWN button or channel button **(0-9)** on the remote control to select the options shown in **Fig. 1-2**.
3. Press the MENU button on the remote control to end the adjustments.

NO.	FUNCTION	NO.	FUNCTION
00	OSD H	13	BRIGHTNESS
01	CUT OFF	14	CONTRAST
02	RF AGC	15	COLOR
03	VIF VCO	16	TINT
04	H VCO	17	SHARPNESS
05	H PHASE	18	FM LEVEL
06	V SIZE	19	LEVEL
07	V SHIFT	20	SEPARATION 1
08	R DRIVE	21	SEPARATION 2
09	B DRIVE	22	TEST MONO
10	R BIAS	23	TEST STEREO
11	G BIAS	24	X-RAY TEST
12	B BIAS		

Fig. 1-2

2. BASIC ADJUSTMENTS

2-1: RF AGC DELAY

1. Receive an 60dB monoscope pattern.
2. Connect the digital voltmeter to **R606**.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(02)** on the remote control to select "RF AGC".
4. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is $2.65 \pm 0.05V$.

2-2: CUT OFF

1. Adjust the unit to the following settings.
R.DRIVE=74, B.DRIVE=56, R.BIAS=68, G.BIAS=85, B.BIAS=64, BRIGHTNESS=135, CONTRAST=100.
2. Place the set with Aging Test for more than 15 minutes.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(01)** on the remote control to select "CUT OFF".
4. Adjust the **Screen Volume** until a dim raster is obtained.

2-3: FOCUS

1. Receive the monoscope pattern.
2. Turn the Focus Volume fully counterclockwise once.
3. Adjust the **Focus Volume** until picture is distinct.

2-4: WHITE BALANCE

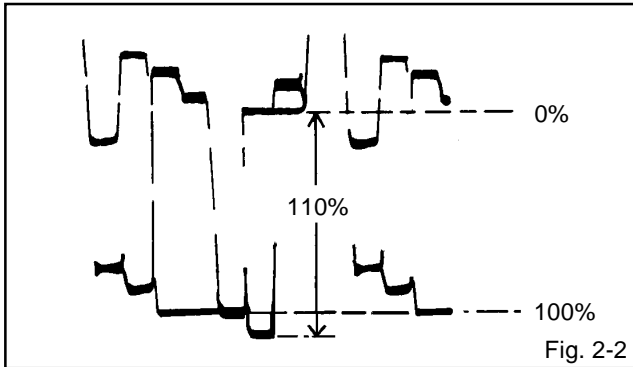
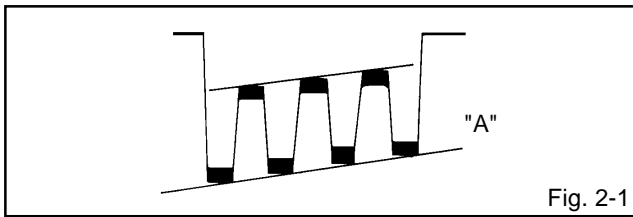
NOTE: Adjust after performing CUT OFF adjustment.

1. Place the set with Aging Test for more than 10 minutes.
2. Receive the color bar pattern.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(10)** on the remote control to select "R.BIAS".
5. Using the VOL. UP/DOWN button on the remote control, adjust the R.BIAS.
6. Press the CH. UP/DOWN button on the remote control to select the "R.DRIVE", "B.DRIVE", "G.BIAS" or "B.BIAS".
7. Using the VOL. UP/DOWN button on the remote control, adjust the R.DRIVE, B.DRIVE, G.BIAS or B.BIAS.
8. Perform the above adjustments 6 and 7 until the white color is looked like a white.

2-5: SUB TINT/SUB COLOR

1. Receive the color bar pattern. (RF Input)
2. Connect the oscilloscope to **TP024**.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(16)** on the remote control to select "TINT".
4. Press the VOL. UP/DOWN button on the remote control until the section "A" becomes a straight line.
(Refer to Fig. 2-1)
5. Connect the synchro scope to **TP022**.
6. Press the CH DOWN button once to set to "COLOR" mode.
7. Press the VOL. UP/DOWN button on the remote control until the red color level is adjusted to 110% of the white level. **(Refer to Fig. 2-2)**
8. Receive the color bar pattern. (Audio Video Input)
9. Press the TV/AV button on the remote control to set to the AV mode. Then perform the above adjustments 2~7.

ELECTRICAL ADJUSTMENTS



2-6: HORIZONTAL PHASE

1. Receive the center cross signal from the Pattern Generator.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**05**) on the remote control to select "H.PHASE".
4. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on right and left becomes minimum.

2-7: VERTICAL SIZE

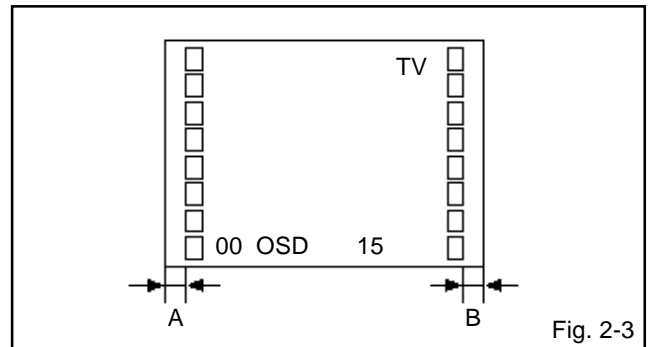
NOTE: Adjust after performing adjustments in section 2-6

1. Receive the center cross signal from the Pattern Generator.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**06**) on the remote control to select "V.SIZE".
4. Press the VOL. UP/DOWN button on the remote control until the rectangle on the center of the screen becomes square.
5. Receive a broadcast and check if the picture is normal.

2-8: VERTICAL SHIFT

NOTE: Adjust after performing adjustments in section 2-7

1. Receive the center cross signal from the Pattern Generator.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**07**) on the remote control to select "V.SHIFT".
4. Press the VOL. UP/DOWN button on the remote control until the horizontal line becomes fit to the notch of the shabow mask.



2-9: OSD HORIZONTAL

1. Activate the adjustment mode display of **Fig. 1-1**.
2. Press the VOL. UP/DOWN button on the remote control until the difference of A and B becomes minimum. (Refer to **Fig. 2-3**)

2-10: VERTICAL VCO

1. Place the set with Aging Test for more than 15 minutes.
2. Receive an 80dB monoscope pattern.
3. Connect the digital voltmeter between the **pin 5 of CP601**.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**03**) on the remote control to select "VIF VCO".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is 2.5V.

2-11: CONSTANT VOLTAGE

1. Using the remote control, set the brightness and contrast to normal position.
2. Connect the digital voltmeter to **TP402**.
3. Set condition is AV MODE without signal.
4. Adjust the **VR502** until the digital voltmeter is $130V \pm 0.5V$.

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

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

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

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

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

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

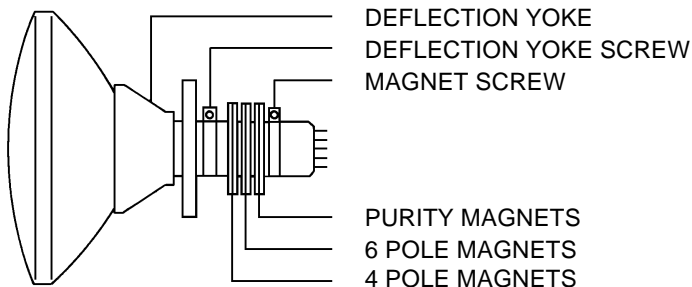


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

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

3-4: DYNAMIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-3.

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

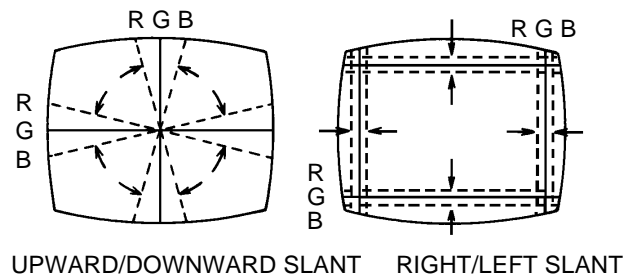


Fig. 3-2-a

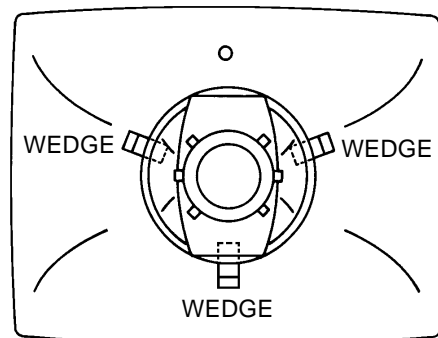
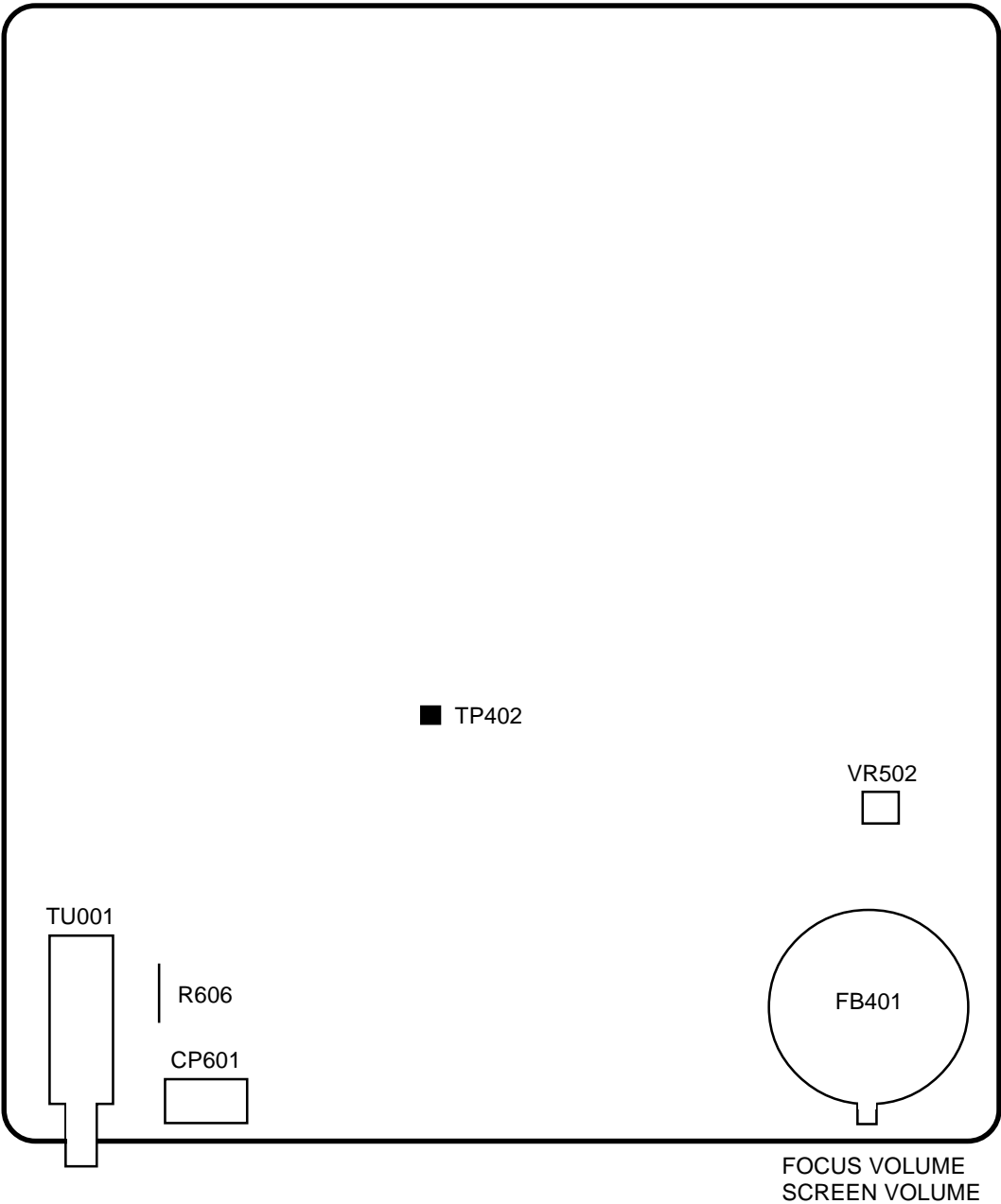
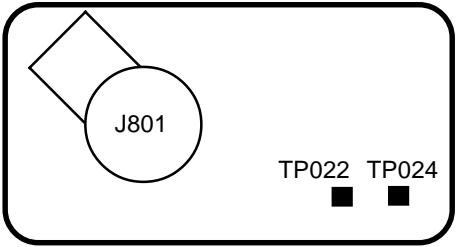


Fig. 3-2-b

MAJOR COMPONENTS LOCATION GUIDE

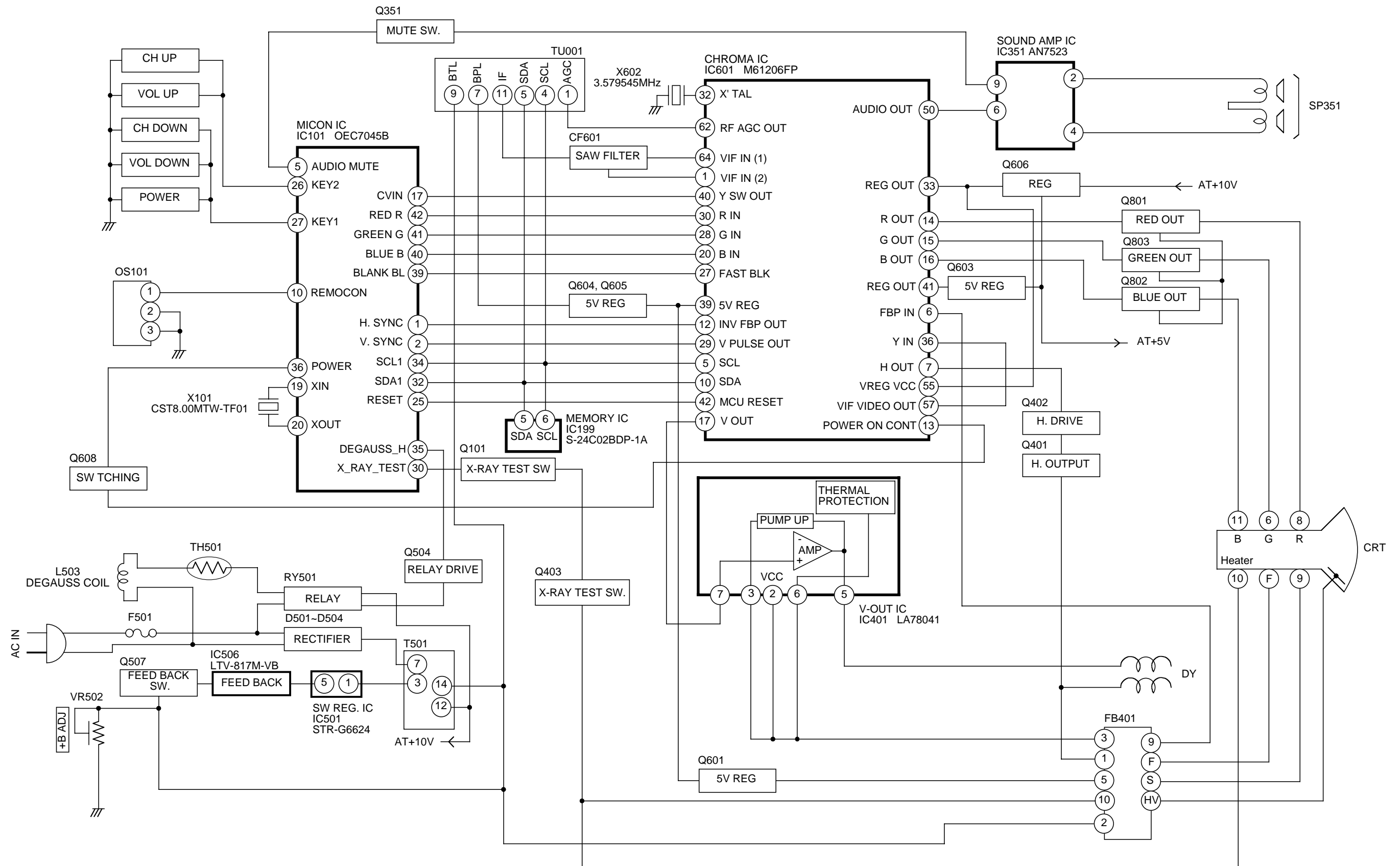


MAIN PCB

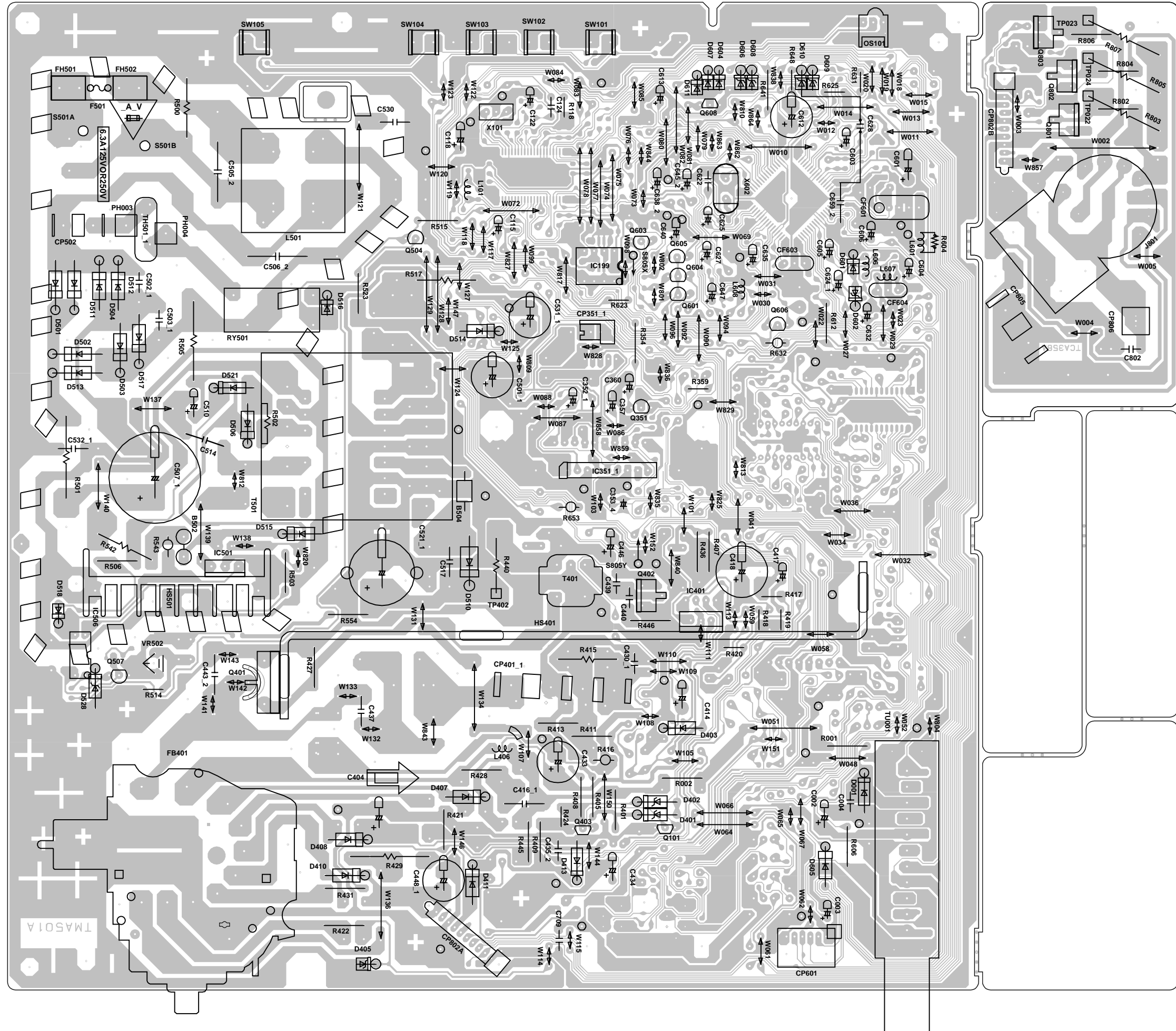


CRT PCB

BLOCK DIAGRAM

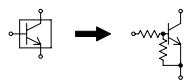


**PRINTED CIRCUIT BOARDS
MAIN/CRT (INSERTED PARTS)
SOLDER SIDE**



MICON/TUNER SCHEMATIC DIAGRAM(MAIN PCB)


CAUTION: DIGITAL TRANSISTOR








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.

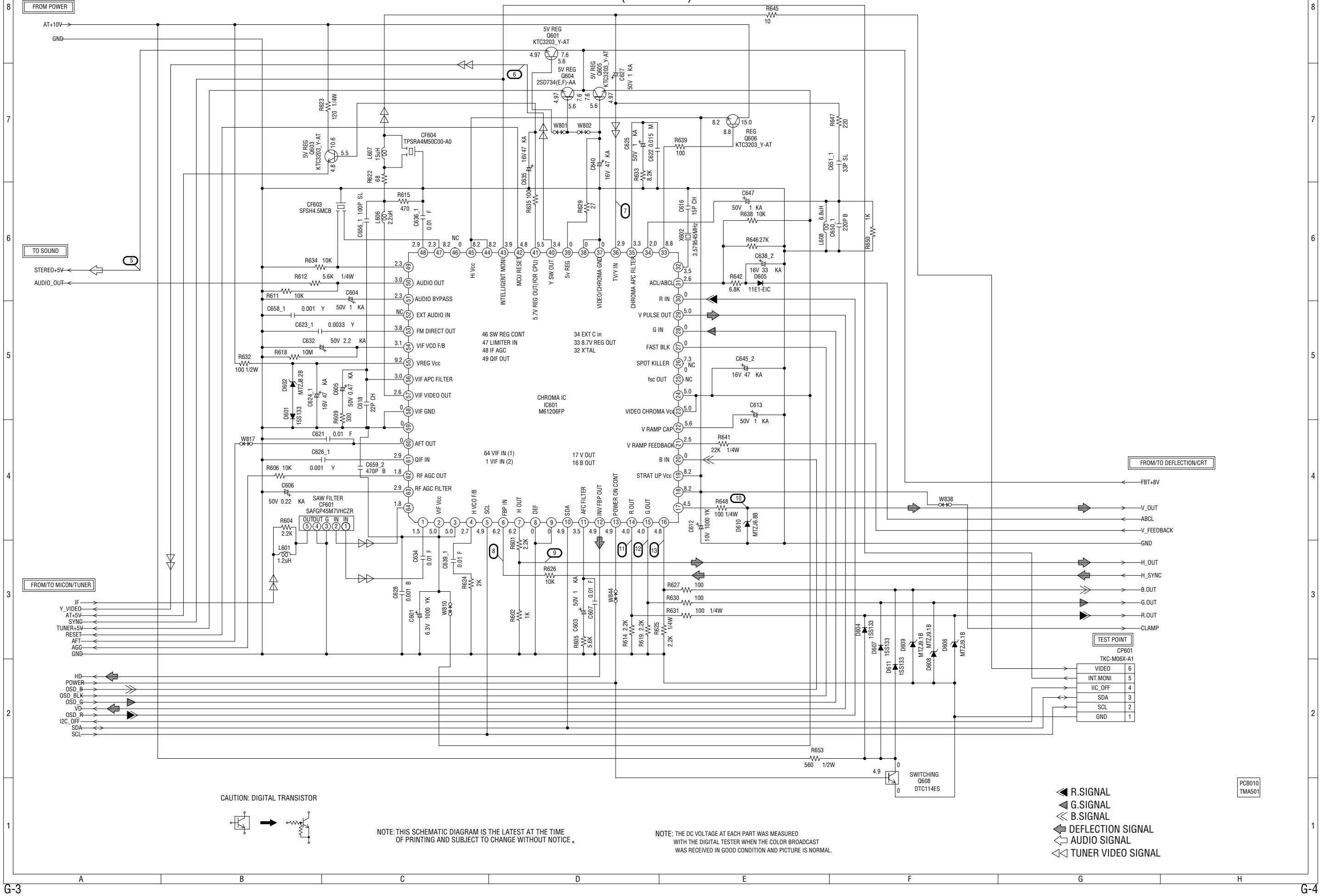
CAUTION: SINCE THESE PARTS MARKED BY  ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

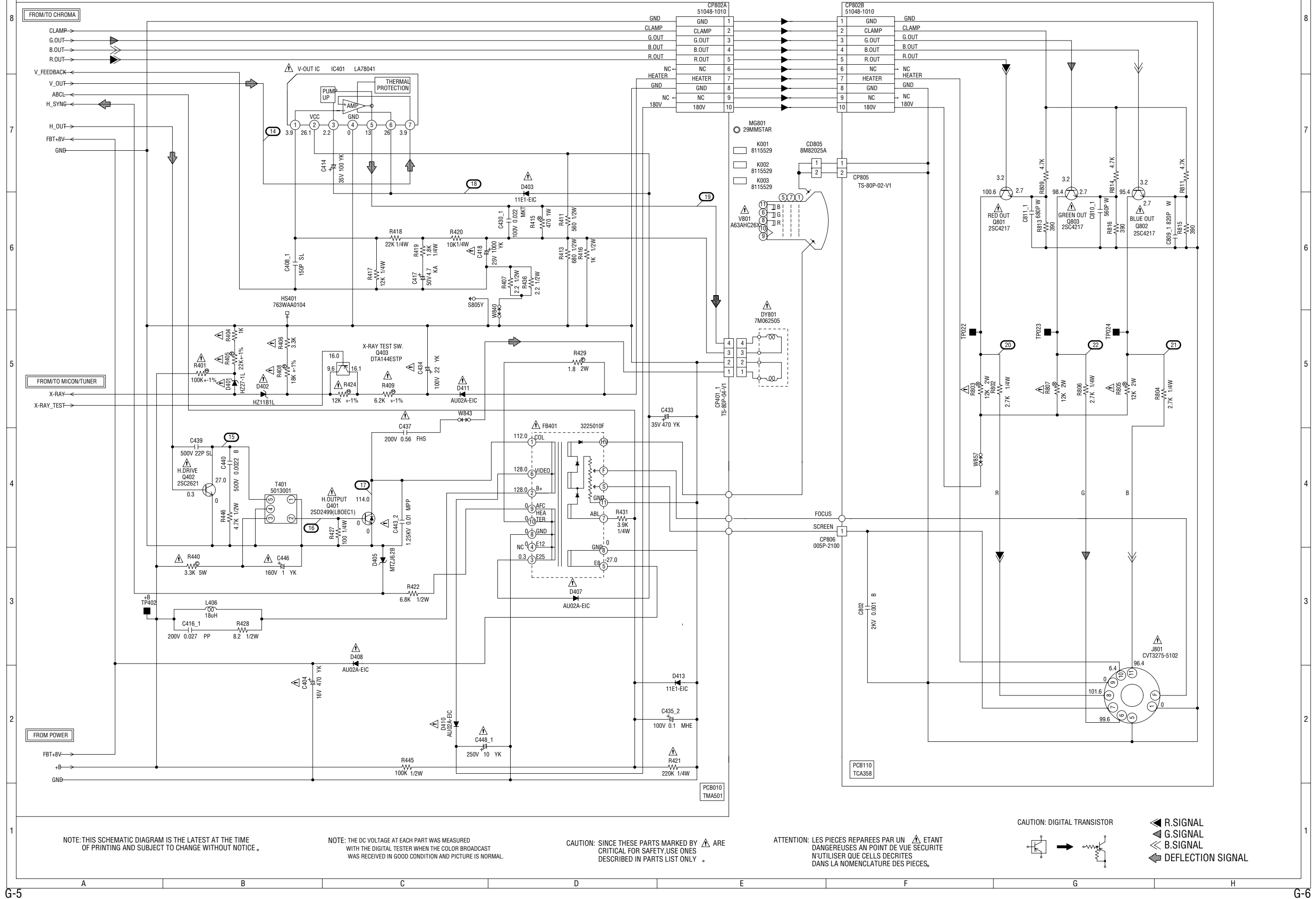
-  R.SIGNAL
-  G.SIGNAL
-  B.SIGNAL
-  DEFLECTION SIGNAL
-  TUNER VIDEO SIGNAL

PC8010
TMA501

CHROMA SCHEMATIC DIAGRAM
(MAIN PCB)




DEFLECTION/CRT SCHEMATIC DIAGRAM (MAIN PCB)



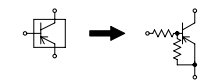
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

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

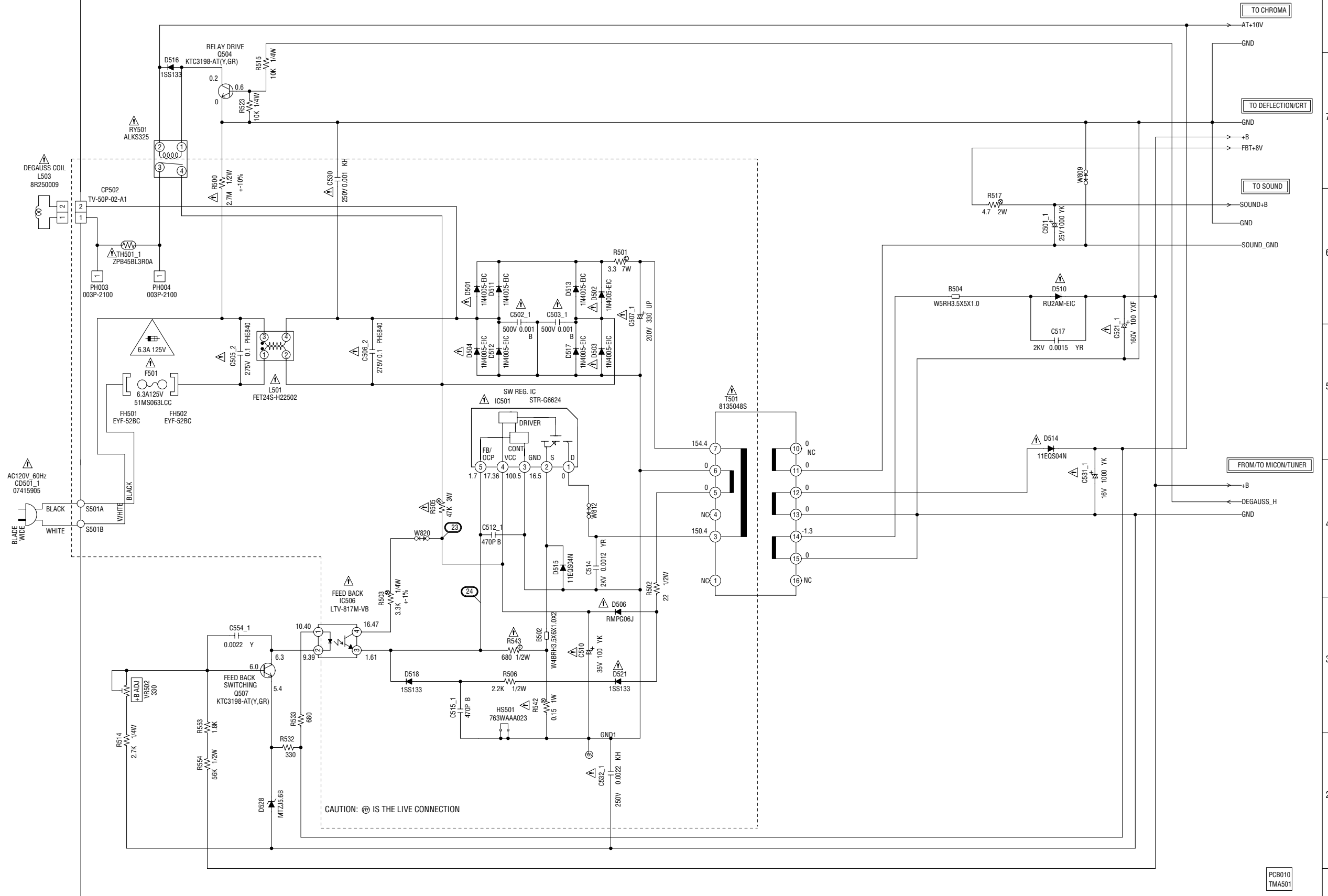
ATTENTION: LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ, N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION: DIGITAL TRANSISTOR



- ◀ R.SIGNAL
- ◀ G.SIGNAL
- ◀ B.SIGNAL
- ◀ DEFLECTION SIGNAL

POWER SCHEMATIC DIAGRAM (MAIN PCB)




CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE
6.3A 125V(F501)

**ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE
6.3A 125V(F501)**

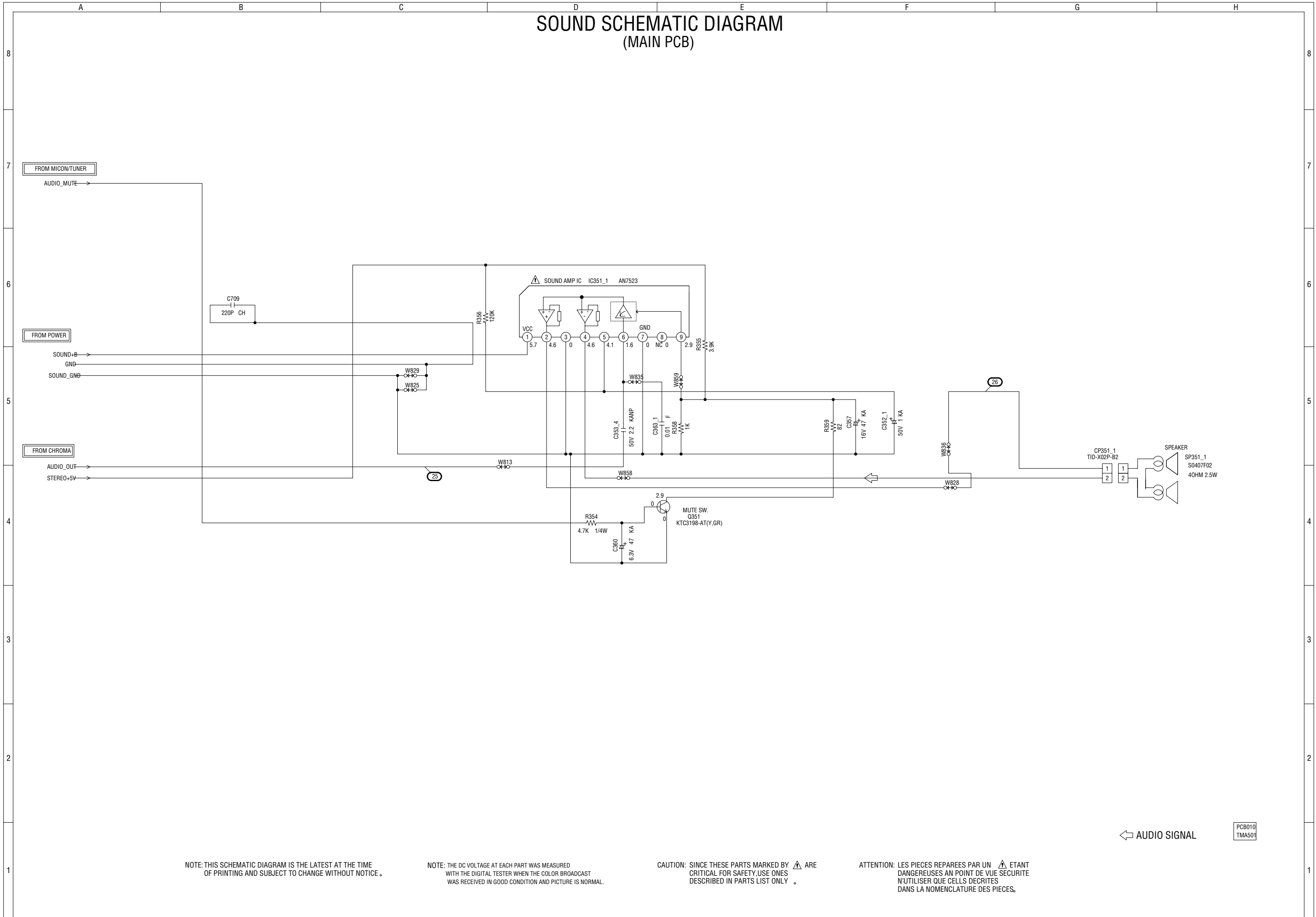
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

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

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

SOUND SCHEMATIC DIAGRAM
(MAIN PCB)



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

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

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

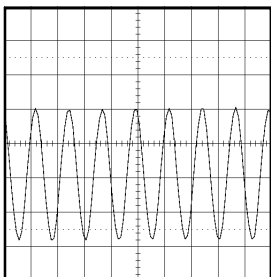
ATTENTION: LES PIÈCES REPARÉES PAR UN ÉTANT
DANGEREUSES AU POINT DE VUE SÉCURITÉ
N'UTILISER QUE CELLES DÉCRITES
DANS LA NOMENCLATURE DES PIÈCES.

← AUDIO SIGNAL

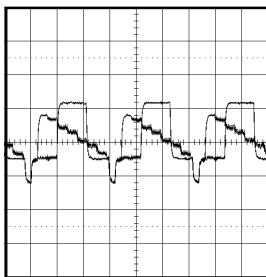
PCB010
TMA501

WAVEFORMS

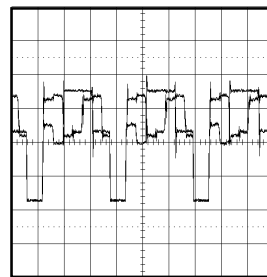
MICON/TUNER



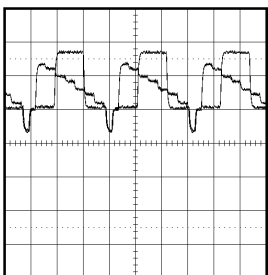
① 1V 0.1 μ s/div



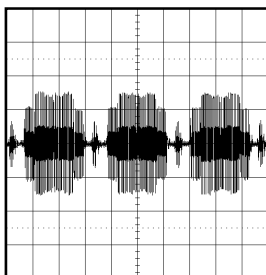
⑥ 0.5V 20 μ s/div



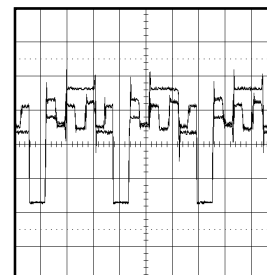
⑪ 1V 20 μ s/div



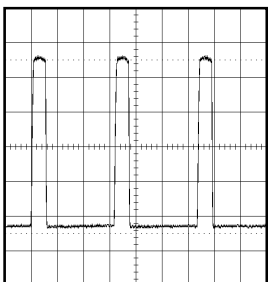
② 0.5V 20 μ s/div



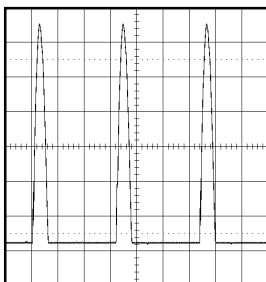
⑦ 200mV 20 μ s/div



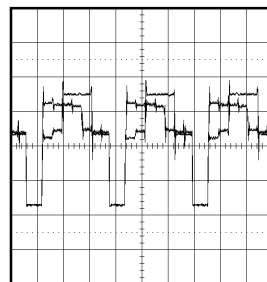
⑫ 1V 20 μ s/div



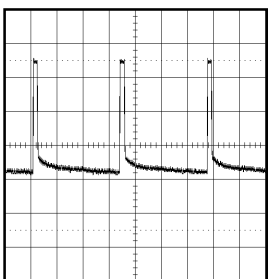
③ 200mV 20 μ s/div



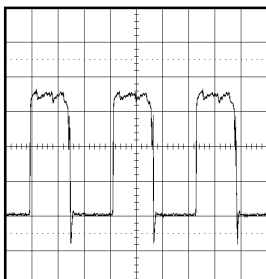
⑧ 20V 20 μ s/div



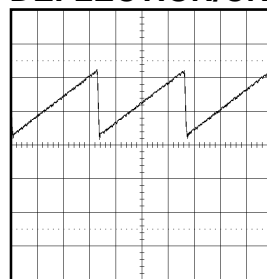
⑬ 1V 20 μ s/div



④ 200mV 5ms/div

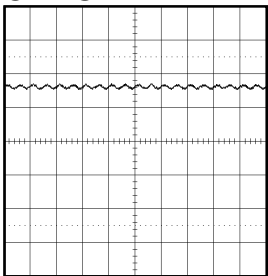


⑨ 200mV 20 μ s/div

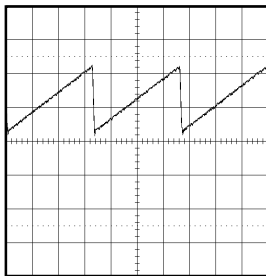


⑭ 0.5V 5ms/div

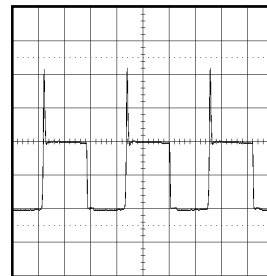
CHROMA



⑤ 0.5V 2ms/div



⑩ 0.5V 5ms/div

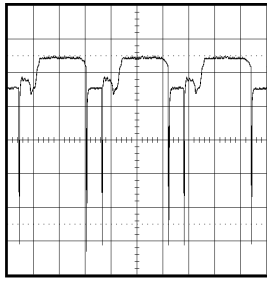


⑮ 20V 20 μ s/div

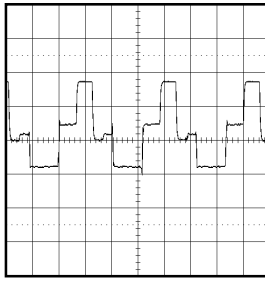
DEFLECTION/CRT

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

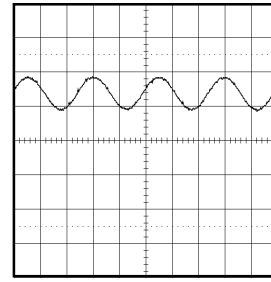
WAVEFORMS



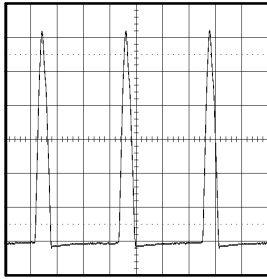
①⑥ 2V 20 μ s/div



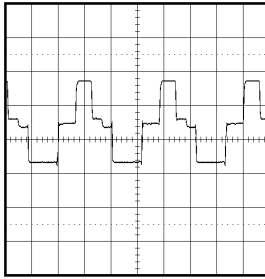
②① 50V 20 μ s/div



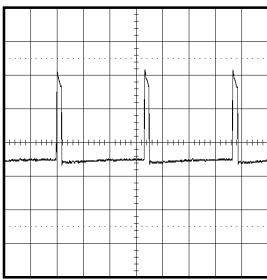
②⑥ 1V 1ms/div



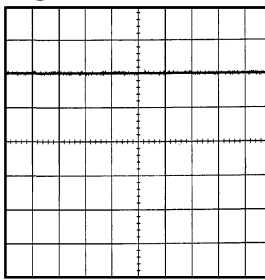
①⑦ 200V 20 μ s/div



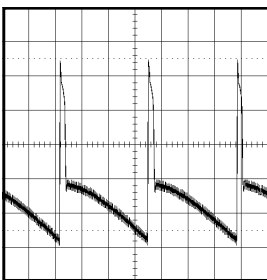
②② 50V 20 μ s/div



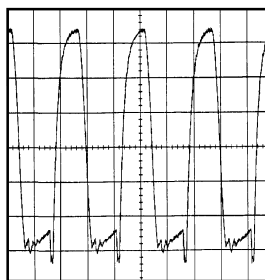
①⑧ 10V 5ms/div



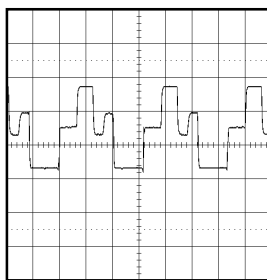
②③ 5.0V 20ms/div



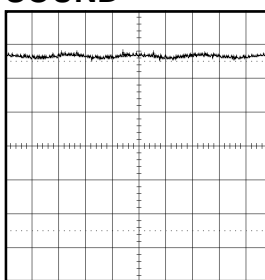
①⑨ 10V 5ms/div



②④ 500mV 5 μ s/div

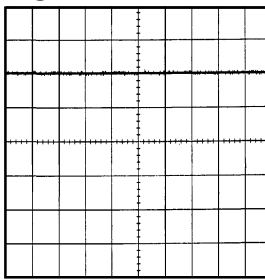


②⑦ 50V 20 μ s/div



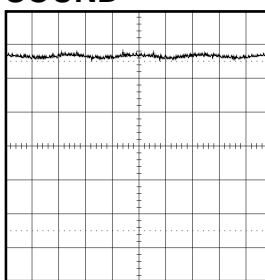
②⑤ 0.5V 1ms/div

POWER



②③ 5.0V 20ms/div

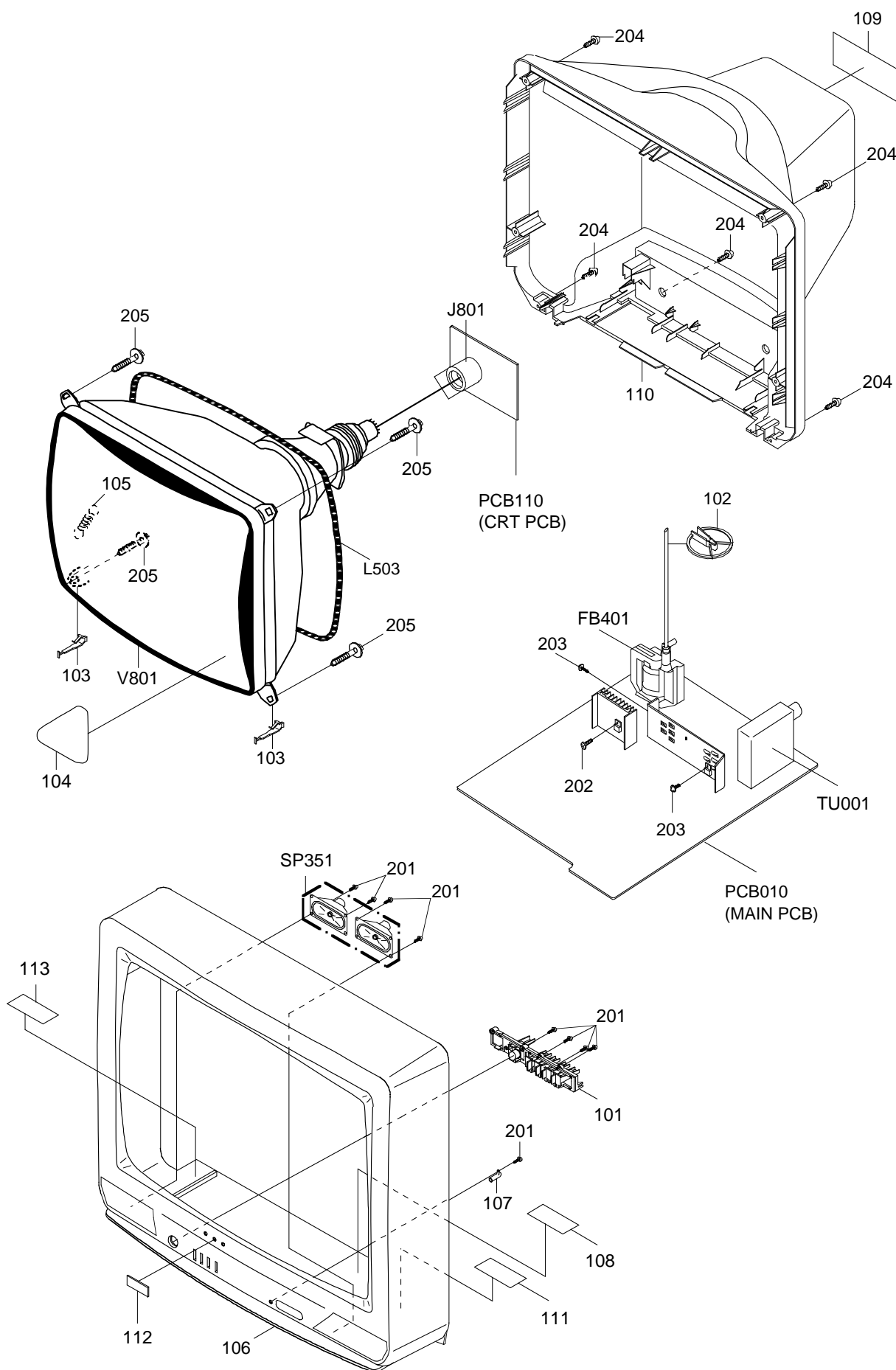
SOUND



②⑤ 0.5V 1ms/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	735WPA0562	BUTTON,ASS'Y			
102	899HV3T000	HOLDER,ANODE WIRE			
103	762WPA0009	HOLDER,CRT WIRE			
104	723000B179	FILM,DECORATION			
105	741WUA0021	SPRING,EARTH			
106	701APJA057	CABINET,FRONT			
107	713WPA0096	GUIDE,REMOCON			
108	7230006856	SHEET,CAUTION			
109	722552A006	SHEET,RATING			
110	702APA0121	CABINET,BACK			
111	7220001109	SHEET,HWC			
112	723552A003	BADGE,BRAND			
113	7240001041	SHEET,CSA WARNING			
201	8110630A04	SCREW,TAP TITE (P)	BRAZIER	3x10	
202	810B130A04	SCREW/WASHER (B)		M3x10	
203	8109I30A04	SCREW,TAP TITE (B)	WH7	3x10	
204	8117540B04	SCREW,TAPPING (B0)	TRUSS	4x20	
205	8111J50D05	SCREW,TAPPING (A)	GW22	5x35	
---	JB5L0100	POLY BAG			
---	J3K00401	INSTRUCTION BOOK			
---	791AHA0021	FILM,BAG			
---	792AHA0073	PACKAGE, TOP			
---	792AHA0074	PACKAGE,BOTTOM			
---	793ACDA111	GIFT BOX			
---	A3K004E975	INSTRUCTION BOOK KIT			

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART. NO.	DESCRIPTION		REF. NO.	PART. NO.	DESCRIPTION	
RESISTORS				DIODES			
△	R401	R4X5T6104F	R, METAL		D517	D2WXN40050	DIODE, SILICON
△	R404	R903N8102J	RC		D518	D1VT001330	DIODE, SILICON
△	R405	R4X5T6223F	R, METAL	△	D521	D1VT001330	DIODE, SILICON
△	R406	R903N8332J	RC		D528	D97U05R61B	DIODE, ZENER
	R407	R002T22R2J	RC		D601	D1VT001330	DIODE, SILICON
△	R408	R4X5T6183F	R, METAL		D602	D97U08R21B	DIODE, ZENER
△	R409	R4X5T6622F	R, METAL		D604	D1VT001330	DIODE, SILICON
	R415	R3X181471J	R, METAL		D605	D2WT011E10	DIODE, SILICON
△	R421	R001T4224T	RC		D606	D97U09R11B	DIODE, ZENER
△	R424	R4X5T6123F	R, METAL		D607	D1VT001330	DIODE, SILICON
	R429	R6558A1R8J	R, FUSE		D608	D97U09R11B	DIODE, ZENER
△	R440	R5X2CD332J	R, CEMENT		D609	D97U09R11B	DIODE, ZENER
△	R500	R0G3K2275K	RC		D610	D97U06R81B	DIODE, ZENER
	R501	R5Y2CE3R3J	R, CEMENT		D611	D1VT001330	DIODE, SILICON
	R502	R002T2220J	RC	ICS			
	R503	R4X5T4332F	R, METAL		IC101	I56F07045B	IC
△	R505	R3X28B473J	R, METAL OXIDE		IC199	A3K005E015	IC
	R506	R002T2222J	RC	△	IC351	I0FSP75230	IC
	R514	R002T4272J	RC	△	IC401	I03TD80410	IC
	R515	R002T4103J	RC	△	IC501	I2BT06624G	IC
	R517	R3X18A4R7J	R, METAL		IC506	0002E00610	PHOTO COUPLER
△	R542	R33681R15J	R, METAL		IC601	I06FC61206	IC
△	R543	R635U2681J	R, FUSE	TRANSISTORS			
	R604	R001T6222J	RC		Q101	TNYTJ03001	COMPOUND TRANSISTOR
△	R803	R3X18A123J	R, METAL OXIDE			TNATJ03003	COMPOUND TRANSISTOR
△	R805	R3X18A123J	R, METAL OXIDE		Q351	TCATC31980	TRANSISTOR, SILICON
△	R807	R3X18A123J	R, METAL OXIDE	△	Q401	TDUU024990	TRANSISTOR, SILICON
				△	Q402	TC3Q026210	TRANSISTOR, SILICON
CAPACITORS					Q403	TPYTD03001	COMPOUND TRANSISTOR
△	C404	E02LT2471M	CE			TPATD03003	COMPOUND TRANSISTOR
	C414	E02LT4101M	CE		Q504	TCATC31980	TRANSISTOR, SILICON
	C416	P3N1F2273J	CPP		Q507	TCATC31980	TRANSISTOR, SILICON
△	C418	E02LT3102M	CE		Q601	TCAT032034	TRANSISTOR, SILICON
	C433	E02LT4471M	CE			TC5T021204	TRANSISTOR, SILICON
△	C434	E02LT8220M	CE		Q603	TCAT032034	TRANSISTOR, SILICON
△	C437	P447F2564J	CMPP			TC5T021204	TRANSISTOR, SILICON
△	C443	P4N8FJ103H	CMPP		Q604	TD3T007340	TRANSISTOR, SILICON
△	C446	E02LTB010M	CE		Q605	TCAT032034	TRANSISTOR, SILICON
△	C448	E0ELTD100M	CE			TC5T021204	TRANSISTOR, SILICON
	C501	E02LT3102M	CE		Q606	TCAT032034	TRANSISTOR, SILICON
△	C502	C0JTB0513K	CC			TC5T021204	TRANSISTOR, SILICON
△	C503	C0JTB0513K	CC	△	Q608	TNYTB03001	COMPOUND TRANSISTOR
△	C505	P2472B104M	CMP	△	Q801	TC3F042170	TRANSISTOR, SILICON
△	C506	P2472B104M	CMP	△	Q802	TC3F042170	TRANSISTOR, SILICON
△	C507	E51CGC331M	CE	△	Q803	TC3F042170	TRANSISTOR, SILICON
△	C510	E02LT4101M	CE	COILS & TRANSFORMERS			
	C514	C0JLYR7B3K	CC		L101	021LA62R7K	COIL
	C517	C0JLYR7E3K	CC		L406	021U6D180K	COIL
△	C521	E62NFB101M	CE	△	L501	029F000074	COIL, LINE FILTER
△	C530	CB3LEOM13M	CC	△	L503	028R250009	COIL, DEGAUSS
△	C531	E02LT2102M	CE		L601	021LA61R2K	COIL
△	C532	CB3LEOMH3M	CC		L606	021LA62R2K	COIL
	C628	CHG0B0413K	CC		L607	021LA6150K	COIL
	C802	C13VB0713K	CC		L608	021LA66R8K	COIL
DIODES					T401	045013001J	TRANS, HORIZONTAL DRIVE
△	D001	D97U03001B	DIODE, ZENER	△	T501	048135048S	TRANSFORMER, SWITCHING
△	D401	D94TA27011	DIODE, ZENER	JACK			
△	D402	D94TA11B11	DIODE, ZENER	△	J801	066C130015	SOCKET, CRT
△	D403	D2WT011E10	DIODE, SILICON	SWITCHES			
	D405	D97U06R21B	DIODE, ZENER		SW101	0504201T31	SWITCH, TACT
△	D407	D2WTAU02A0	DIODE, SILICON		SW102	0504201T31	SWITCH, TACT
△	D408	D2WTAU02A0	DIODE, SILICON		SW103	0504201T31	SWITCH, TACT
△	D410	D2WTAU02A0	DIODE, SILICON		SW104	0504201T31	SWITCH, TACT
△	D411	D2WTAU02A0	DIODE, SILICON		SW105	0504201T31	SWITCH, TACT
	D413	D2WT011E10	DIODE, SILICON	VARIABLE RESISTOR			
△	D501	D2WXN40050	DIODE, SILICON		VR502	V1163L2BTC	VOLUME, SEMI FIXED
△	D502	D2WXN40050	DIODE, SILICON	P.C.BOARD ASSEMBLIES			
△	D503	D2WXN40050	DIODE, SILICON		PCB010	A3K004G01A	PCB ASS'Y
△	D504	D2WXN40050	DIODE, SILICON		PCB110	A3K004G11A	PCB ASS'Y
△	D506	D2LTPG06J0	DIODE, SILICON	MISCELLANEOUS			
		D2WXN49370	DIODE, SILICON		B502	024HT03563	CORE, BEADS
△	D510	D2WXRU2AM0	DIODE, SILICON		B504	024HT03553	CORE, BEADS
	D511	D2WXN40050	DIODE, SILICON	△	CD501	1207415905	CORD, AC
	D512	D2WXN40050	DIODE, SILICON		CD805	068M82025A	CORD, CONNECTOR
	D513	D2WXN40050	DIODE, SILICON			06CU82039A	CORD, CONNECTOR
△	D514	D28TQS04N0	DIODE, SCHOTTKY			06CH012101	CORD, CONNECTOR
	D515	D28TQS04N0	DIODE, SCHOTTKY		CD806	06CH012101	CORD, CONNECTOR
	D516	D1VT001330	DIODE, SILICON		CF601	1022T45R73	FILTER, SAW

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART. NO.	DESCRIPTION			
MISCELLANEOUS					
	CF603	1012T4R509	FILTER, CERAMIC	SFSH4.5MCB-TF21	
	CF604	1012T4R519	FILTER, CERAMIC TRAP	TPSRA4M50C00-A0	
	CP351	069W120019	CONNECTOR PCB SIDE	TID-X02P-B2	
	CP401	069W340018	CONNECTOR PCB SIDE	TS-80P-04-V1	
	CP502	069W420029	CONNECTOR PCB SIDE	TV-50P-02-A1	or
		069S420110	CONNECTOR PCB SIDE	A1561WV2-2P	
	CP601	0697260650	CONNECTOR PCB SIDE	TKC-M06X-A1	
	CP805	069W320018	CONNECTOR PCB SIDE	TS-80P-02-V1	or
		069S320010	CONNECTOR PCB SIDE	A2361WV2-2P	
	CP806	069W010010	CONNECTOR PCB SIDE	005P-2100	
	CP802A	067R010019	WIRE HOLDER	51048-1010	or
		067U010049	WIRE HOLDER	B2013H02-10P	
	CP802B	067R010019	WIRE HOLDER	51048-1010	or
		067U010049	WIRE HOLDER	B2013H02-10P	
△	DY801	027M062505	DY	7M062505	
△	F501	081PC6R304	FUSE	51MS063LCC	
△	FB401	043225010F	TRANSFORMER, FLYBACK	3225010F	
	FH501	06710T0006	HOLDER, FUSE	EYF-52BC	
	FH502	06710T0006	HOLDER, FUSE	EYF-52BC	
	K001	129A000010	WEDGE	8115529	
	K002	129A000010	WEDGE	8115529	
	K003	129A000010	WEDGE	8115529	
	MG801	026A062704	MAGNET, CONVERGENCE	29MMSTAR	
	OS101	077Q014003	REMOTE RECEIVER	PIC-28143SY-2	
	PH003	069W01001A	CONNECTOR PCB SIDE	003P-2100	
	PH004	069W01001A	CONNECTOR PCB SIDE	003P-2100	
△	RY501	0560V10118	RELAY	ALKS325	
	SP351	070Y533002	SPEAKER	S0407F02	
△	TH501	DF5EL3R0A0	DEGAUSS, ELEMENT	ZPB45BL3R0A	
	TM101	076N0DW020	TRANSMITTER	RC-DW020	
△	TU001	0145S00052	TUNER, VHF-UHF	ENV56D66G3	
△	V801	0984250502	COLOR PICTURE TUBE	A63AHC26X	
	X101	1001T8R004	CERAMIC, OSCILLATOR	EFOEC8004T4	
	X602	100CT3R505	CRYSTAL HC-49/C	3.579545MHz	

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.	M3K0-04G
O/R NO.	A153510