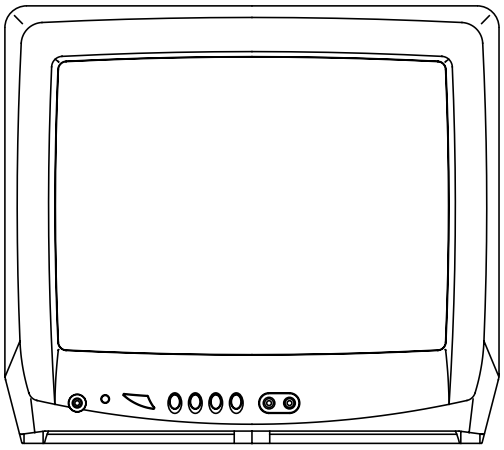
Memorex

MT1134

SERVICE MANUAL

COLOR TELEVISION RECEIVER



ORIGINAL
MFR'S VERSION B

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

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

2. AVOID AN ELECTRIC SHOCK

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

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

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

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

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

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

6. AVOID AN X-RAY

Safety is secured against an X-ray by considering about the cathode-ray tube and the high voltage peripheral circuit, etc.
Therefore, when repairing the high voltage peripheral circuit, use the designated parts and make sure not modify the circuit.
Repairing except indicates causes rising of high voltage, and it emits an X-ray from the cathode-ray tube.

7. PERFORM A SAFETY CHECK AFTER SERVICING

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

(INSULATION CHECK PROCEDURE)

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

[Note 1]

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

[Note 2]

External exposure metal: Antenna terminal
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.

CONTENTS

GENERAL SPECIFICATIONS

G-1	TV System	CRT		CRT Size / Visual Size	13 inch / 335.4mmV
				CRT Type	Normal
				Deflection	90 degree
				Magnetic Field BV/BH	+0.45G/0.18G
		Color System			NTSC
		Speaker			1Speaker
				Position	Bottom
				Size	3 Inch
				Impedance	8 ohm
		Sound Output		MAX	1.0 W
				10%(Typical)	0.8 W
		NTSC3.58+4.43 /PAL60Hz			No
G-2	Tuning System	Broadcasting System			US System M
		Tuner and Receive CH		System	1Tuner
				Destination	USA(W/ CATV)
				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 Frequency		Picture(FP)	45.75MHz
				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	
					54 W at AC 120 V 60 Hz
				Stand by (at AC)	5 W at AC 120 V 60 Hz
				Per Year	-- kWh/Year
		Protector		Power Fuse	Yes
				Safety Circuit	Yes
				IC Protector(Micro Fuse)	No
G-4	Regulation			Safety	UL
				Radiation	FCC
				X-Radiation	DHHS
G-5	Temperature			Operation	+5°C ~ +40°C
				Storage	-20°C ~ +60°C
G-6	Operating Humidity				Less than 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		No
				Bass	No
				Treble	No
				Balance	No
				BBE On/Off	No
				Stable Sound On/Off	No
			CH Set Up		Yes
				TV/CATV	Yes
				Auto CH Memory	Yes
				Add/ Delete	Yes
			Language		Yes
			V-chip		Yes
				CH Label	No
				Favorite CH	No
				Color Stream DVD/DTV	No
			Control Level		Yes
				Volume	Yes
				Brightness	Yes
				Contrast	Yes
				Color	Yes
				Tint	Yes
				Sharpness	Yes
				Tuning	No
				Bass	No
				Treble	No
				Balance	No
				Back Light	No
			Stereo,Audio Output,SAP		No
			Video		Yes

GENERAL SPECIFICATIONS

		Color Stream		No
		Channel(TV/Cable)		Yes
		CH Label		No
		Sleep Timer		Yes
		Sound Mute		Yes
		V-chip Rating		Yes
G-8	OSD Language			English French Spanish
G-9	Clock and Timer	Sleep Timer	Max Time	120 Min
			Step	10 Min
		On/Off Timer	Program(On Timer / Off Timer)	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		27 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)	Yes
			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
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

GENERAL SPECIFICATIONS

		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
		Energy Star			No
		Power On Memory			No
		Favorite CH			No
G-12	Accessories	Owner's Manual		Language	English / Spanish
				w/Guarantee Card	No
		Remote Control Unit			Yes
		Rod Antenna			Yes
				Poles	1 Pile
				Terminal	F type
		Loop Antenna			No
				Terminal	-
		U/V Mixer			No
		DC Car Cord (Center+)			No
		Guarantee Card			Yes
		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
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=Volume Up+Volume 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	RCA
				Audio Input	RCA x 1
				Other Terminal	Ear Phone
			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)	362 x 360 x 320.5
G-15	Weight			Net (Approx.)	9.5 kg (20.9 lbs)

GENERAL SPECIFICATIONS

			Gross (Approx.)	11.0kg (24.4lbs)
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/Brown
			Dimensions W x D x H(mm)	440 x 408 x 380
			Design	As per Buyer's
			Description of Origin	Yes
		Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
			Height (cm)	62
		Container Stuffing		866 Sets/40' container
G-17	Cabinet Material	Cabinet	Cabinet Front	PS 94V0 DECABROM
			Cabinet Rear	PS 94V0 DECABROM
		PCB	Non-Halogen Demand	No
			Eyelet Demand	No
G-18	Environment	Pb Free	Lead-free Solder	No
			Other	No
		Cd Free		No

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.

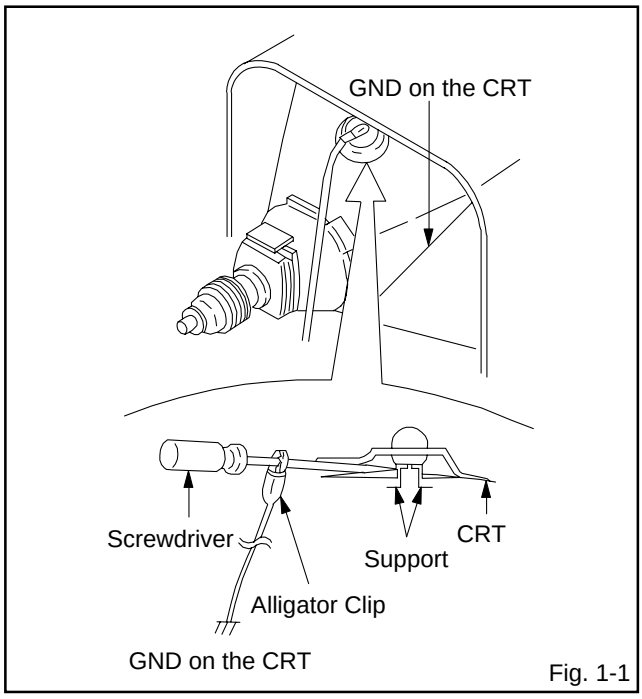


Fig. 1-1

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.)**

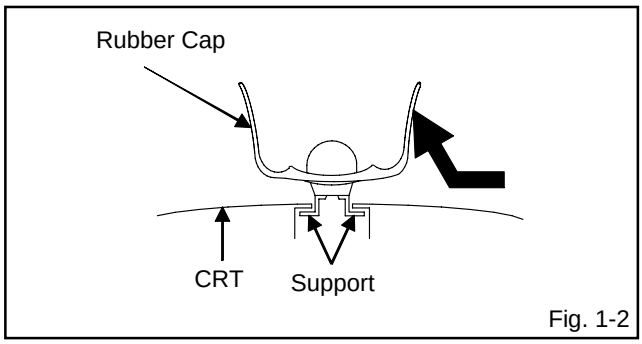


Fig. 1-2

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.)**

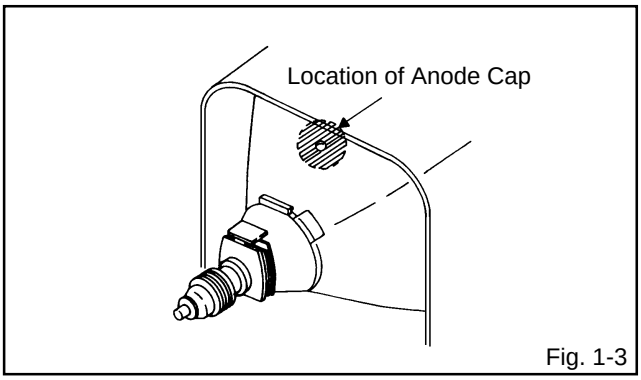


Fig. 1-3

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.)**

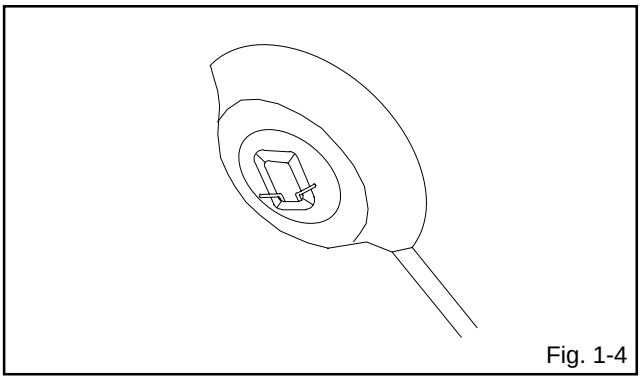


Fig. 1-4

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

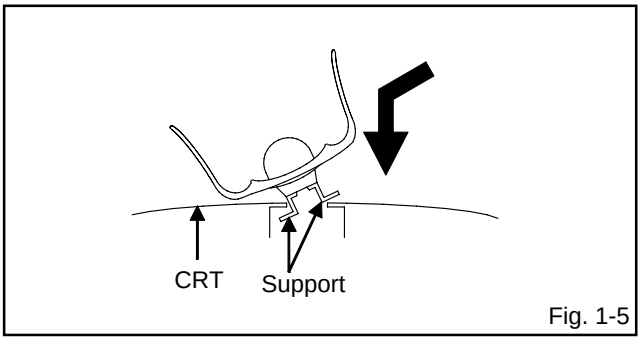


Fig. 1-5

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

DISASSEMBLY INSTRUCTIONS

2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put the Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. **(Refer to Fig. 2-1.)**

   NOTE

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

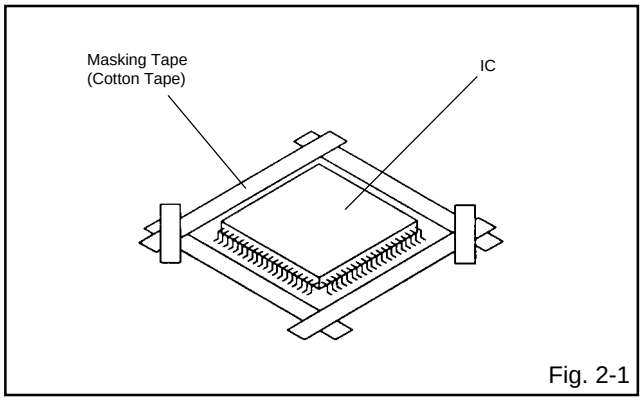


Fig. 2-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 2-2.)**

   NOTE

   Do not add the rotating and the back and forth directions force on the IC, until IC can move back and forth easily after desoldering the IC leads completely.

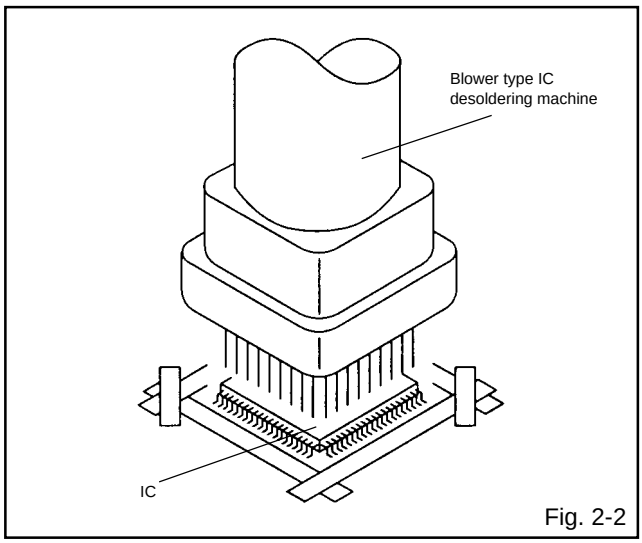


Fig. 2-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using a tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 2-3.)**

   NOTE

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

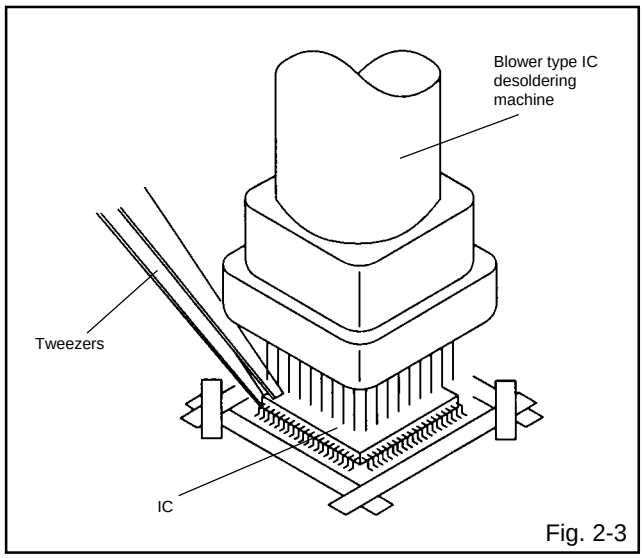


Fig. 2-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 2-4.)**

   NOTE

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

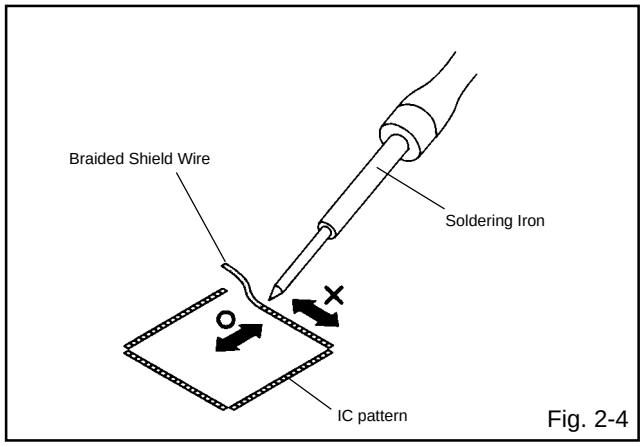


Fig. 2-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 2-5.)**

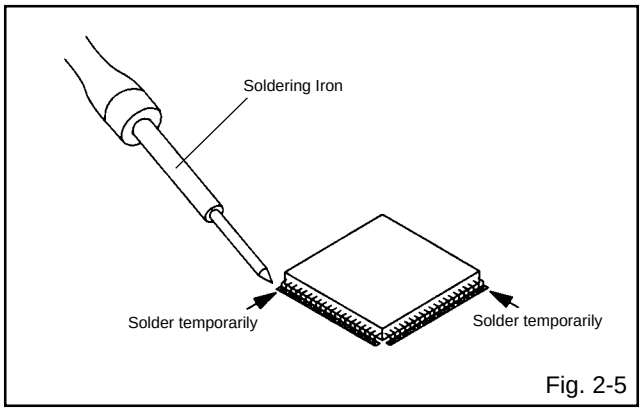


Fig. 2-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 2-6.)**

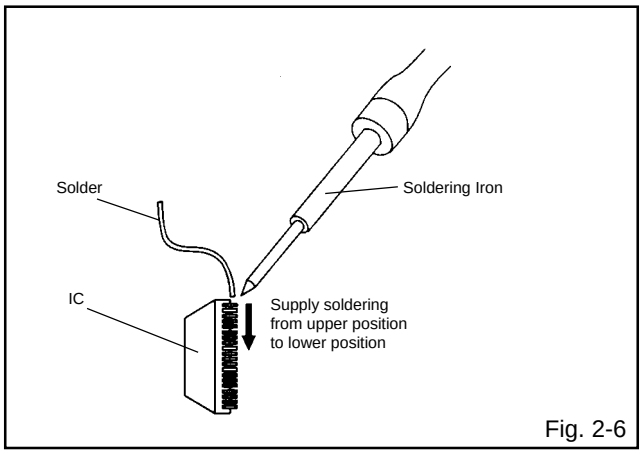


Fig. 2-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 2-7.)**

   NOTE

   Do not absorb the solder to excess.

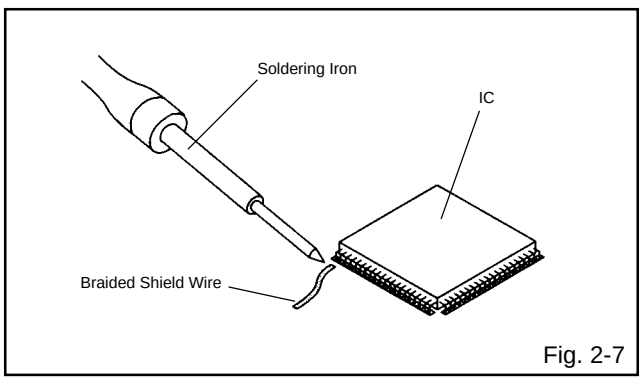


Fig. 2-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 2-8.)**

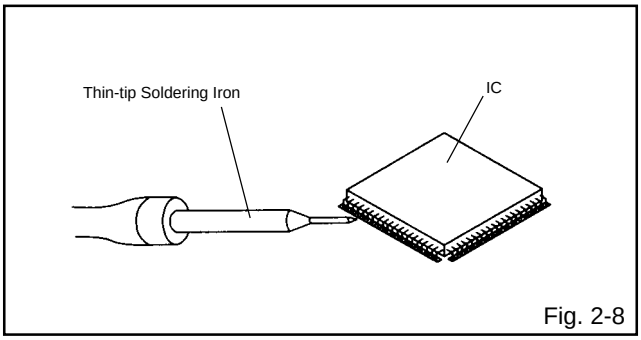


Fig. 2-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

   NOTE

   When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, be always sure to replace the IC in this case.

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. If you set a factory initialization, the memories are reser such as the clock setting, the cheannel setting, the POWER ON total hours, and PLAY/REC total hours.
VOL. (-) MIN	6	POWER ON total hours is displayed on the screen. Refer to the "CONFIRMATION OF HOURS USED". Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (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 HOURS USED

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

NOTE: If you set a factory initialization, the total hours is reset to "0".

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

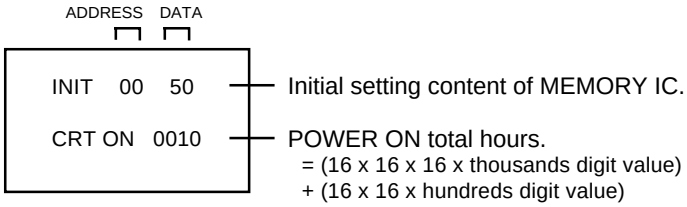


FIG. 1

WHEN REPLACING EEPROM (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	+B	+C	+D	+E	+F
00	50	04	EA	47	C7	B3	24	79	31	00	00	05	10	D7	00	07

Table 1

1. Enter DATA SET mode by setting VOLUME to minimum.
2. While holding down VOLUME button on front cabinet, press key 6 on remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 1.

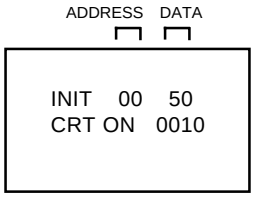


Fig. 1

3. ADDRESS is now selected and should "blink". Using the VOL. +/- button 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 VOL. +/- button 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.

After the data input, set to the initializing of shipping.

9. Turn POWER on.
10. While holding down VOLUME button on front cabinet, press key 1 on remote control for more than 2 seconds.
11. After the finishing of the initializing of shipping, the unit will turn off automatically.

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.
- When you exchange IC and Transistor for a heat sink, apply the silicon grease **(YG6260M)** on the contract section of the heat sink, Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor.)

Prepare the following measurement tools for electrical adjustments.

1. Synchro Scope
2. Digital Voltmeter
3. Pattern Generator

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**.

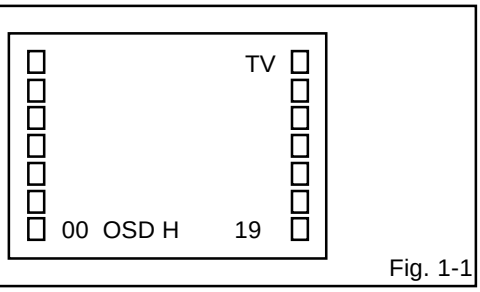


Fig. 1-1

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	16	CONTRAST CENT
01	CUT OFF	17	CONTRAST MAX
04	H.VCO	18	CONTRAST MIN
05	H.PHASE	19	COLOR CENT
06	V.SIZE	20	COLOR MAX
07	V.SHIFT	21	COLOR MIN
08	R.DRIVE	22	TINT
09	B.DRIVE	23	SHARPNESS
10	R.BIAS	24	FM LEVEL
11	G.BIAS	25	LEVEL
12	B.BIAS	26	SEPARATION 1
13	BRIGHT CENT	27	SEPARATION 2
14	BRIGHT MAX	28	TEST MONO
15	BRIGHT MIN	29	TEST STEREO

Fig. 1-2

2. BASIC ADJUSTMENTS

2-1: CUT OFF

1. Adjust the unit to the following settings. R.DRIVE=10, B.DRIVE=10, R.BIAS=64, G.BIAS=64, B.BIAS=64, BRI.CENT=120, CONT.MAX=40.
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.

2-2: FOCUS

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

2-3: WHITE BALANCE

NOTE: Adjust after performing CUT OFF adjustment.

1. Place the set with Aging Test for more than 15 minutes.
2. Receive the white 100% signal from the Pattern Generator.
3. Using the adjustment 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.

2-4: SUB TINT/SUB COLOR

1. Receive the color bar pattern.
2. Connect the oscilloscope to **TP023**.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(22)** on the remote control to select "TINT".
4. Press the VOL. UP/DOWN button on the remote control until the section "A" becomes as straight line **(Refer to Fig. 2-1)**
5. Connect the oscilloscope to **TP022**.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(19)** on the remote control to select "COL.CENT".
7. Press the VOL. UP/DOWN button on the remote control until the red color level is adjusted to 110 ±10% 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

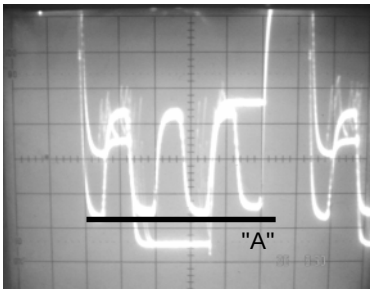


Fig. 2-1

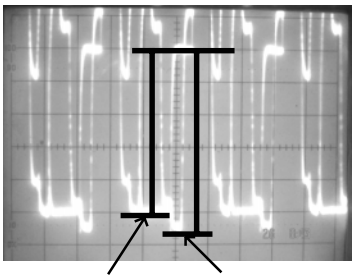


Fig. 2-2

2-5: HORIZONTAL PHASE

1. Receive the monoscope pattern.
2. Using the adjustment 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.PHAS".
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.

2-6: VERTICAL SIZE

NOTE: Adjust after performing adjustments in section 2-5

1. Receive the crosshatch signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(06)** on the remote control to select "V.SIZE".
3. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on upside and downside becomes 10 ± 2%.
4. Receive a broadcast and check if the picture is normal.

2-7: VERTICAL SHIFT

NOTE: Adjust after performing adjustments in section 2-6

1. Receive the crosshatch signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(07)** on the remote control to select "V.SFT".
3. Press the VOL. UP/DOWN button on the remote control until the horizontal line becomes fit to the notch of the shadow mask.

2-8: 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)**

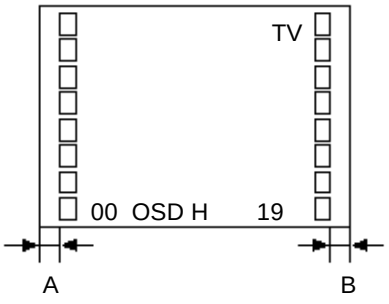


Fig. 2-3

2-9: SUB BRIGHTNESS

1. Receive an 70dB monoscope pattern.
2. Using the adjustment control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(13)** on the remote control to select "BRI.CENT".
4. Press the VOL. UP/DOWN button on the remote control until the white 10% is starting to be visible.
5. Press the TV/AV button on the remote to set to the AV mode. Then perform the above adjustment 2~4.

2-10: SUB CONTRAST

1. Receive an 70dB the color bar pattern.
2. Activate the adjustment mode display of **Fig. 1-1** press the channel button **(17)** on the remote control to select "CONT.MAX".
3. Press the VOL. UP/DOWN button on the remote control until the contrast step No. becomes "40".
4. Press the AV button on the remote control to set to the AV mode.
5. Activate the adjustment mode display of **Fig. 1-1** press the channel button **(17)** on the remote control to select "CONT.MAX".
6. Press the VOL. UP/DOWN button on the remote control until the contrast step No. becomes "45".

2-11: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of the each adjustment items are set correctly referring below.

NO.	FUNCTION	RF	AV
04	H VCO	04	04
14	BRIGHT MAX	150	150
15	BRIGHT MIN	30	30
16	CONT CENT	20	20
18	CONT MIN	10	10
20	COLOR MAX	74	74
21	COLOR MIN	00	00
23	SHARPNESS	48	48
24	FE LEVEL	00	00
25	LEVEL	00	00
26	SEPARATION 1	00	00
27	SEPARATION 2	00	00
28	TEST MONO	00	00
29	TEST STEREO	00	00

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

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

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

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

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

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

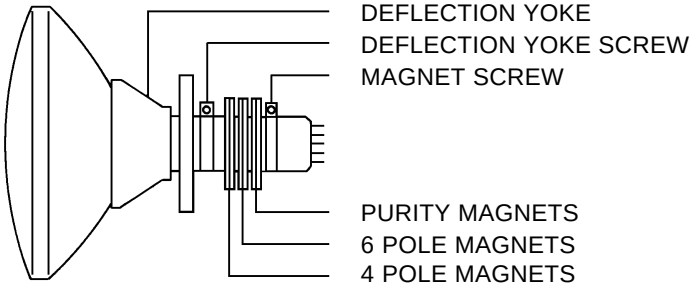


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

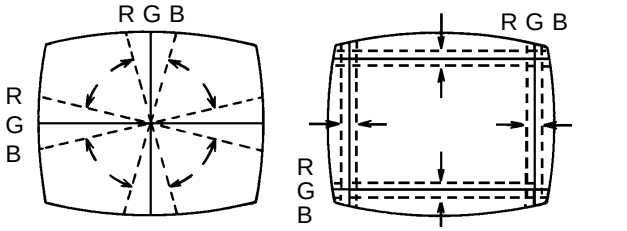
1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

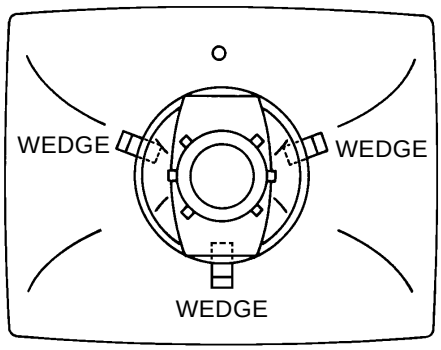
Adjust after performing adjustments in section 3-3.

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



UPWARD/DOWNWARD SLANT RIGHT/LEFT SLANT

Fig. 3-2-a

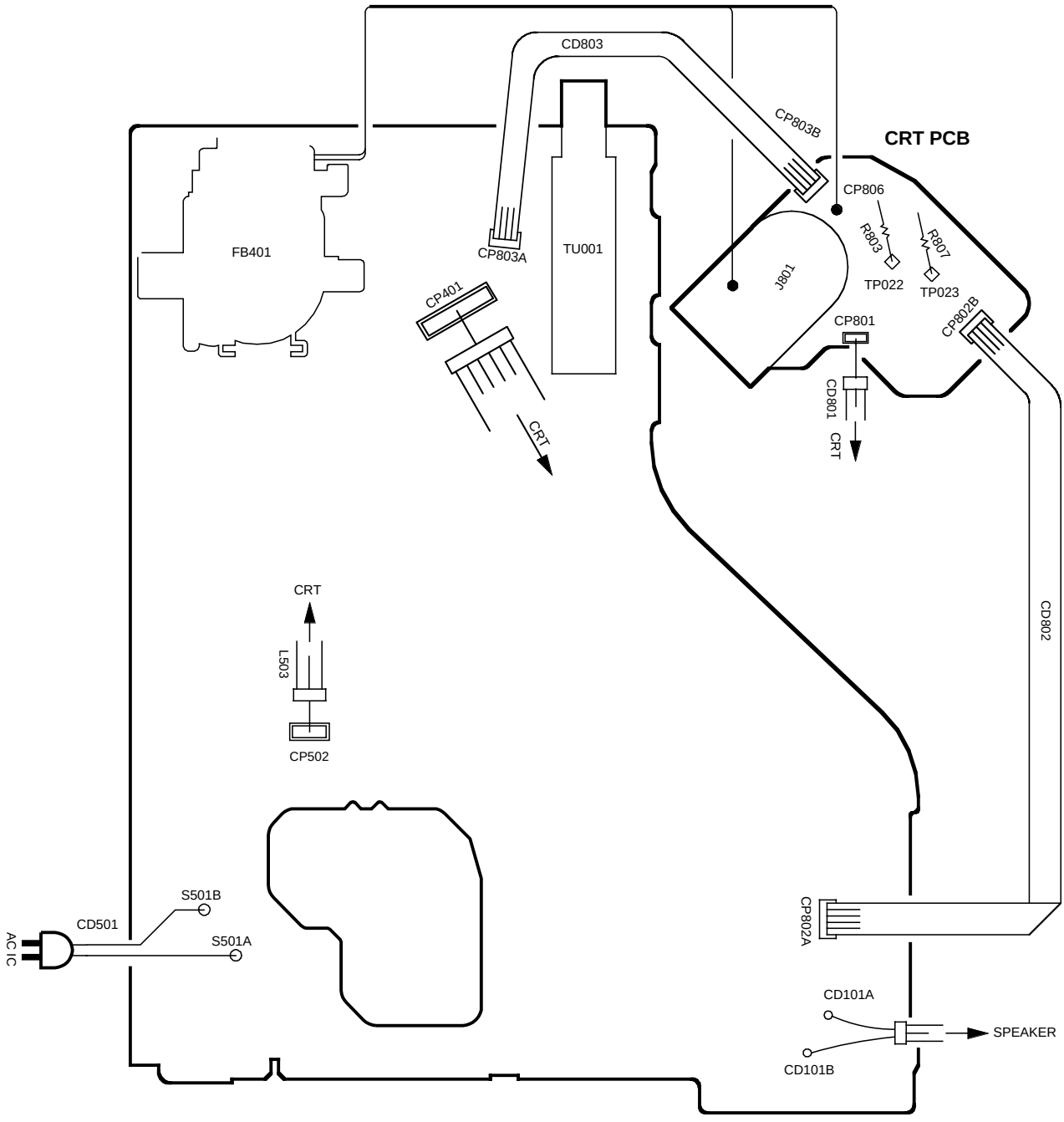


WEDGE POSITION

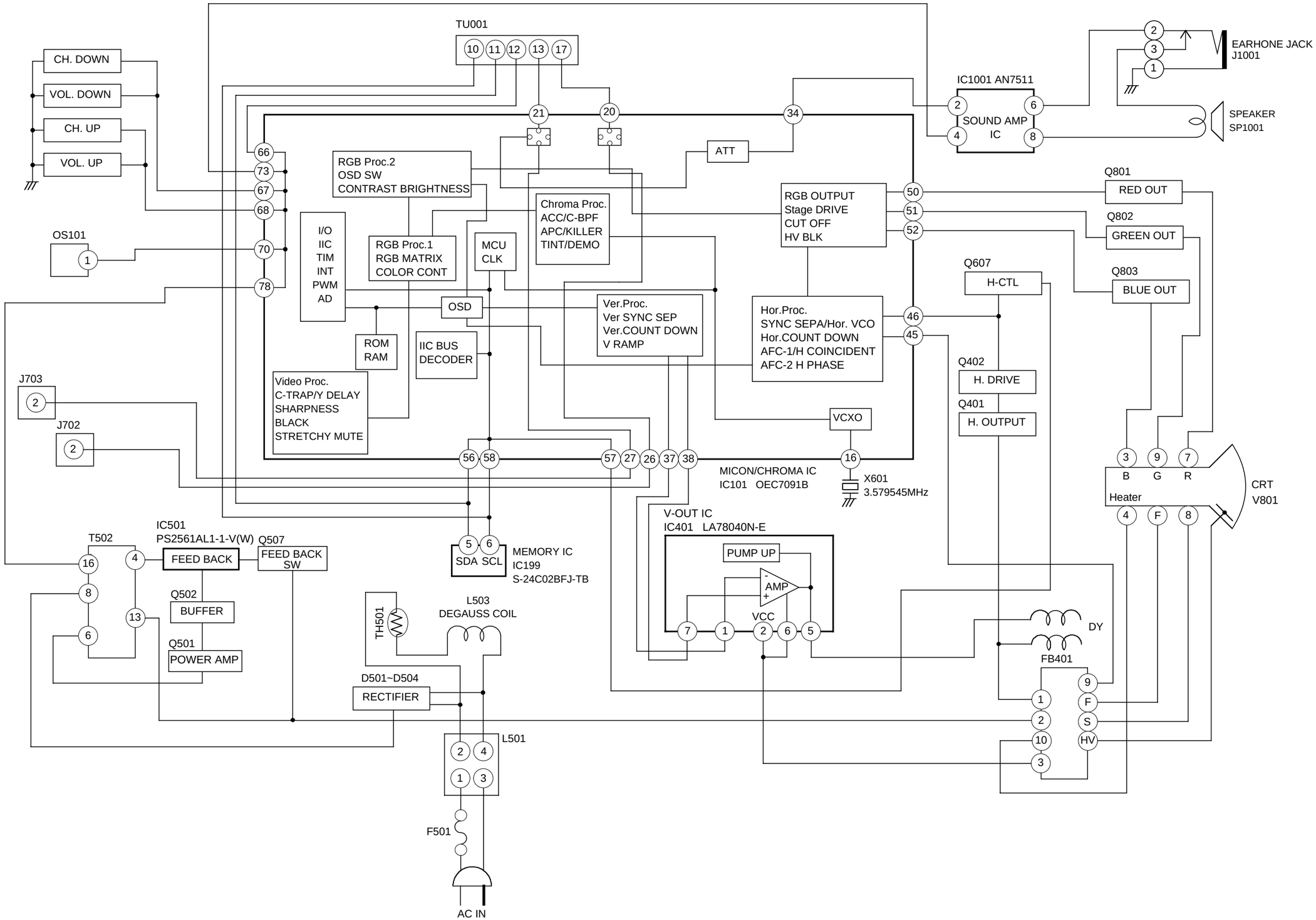
Fig. 3-2-b

ELECTRICAL ADJUSTMENTS

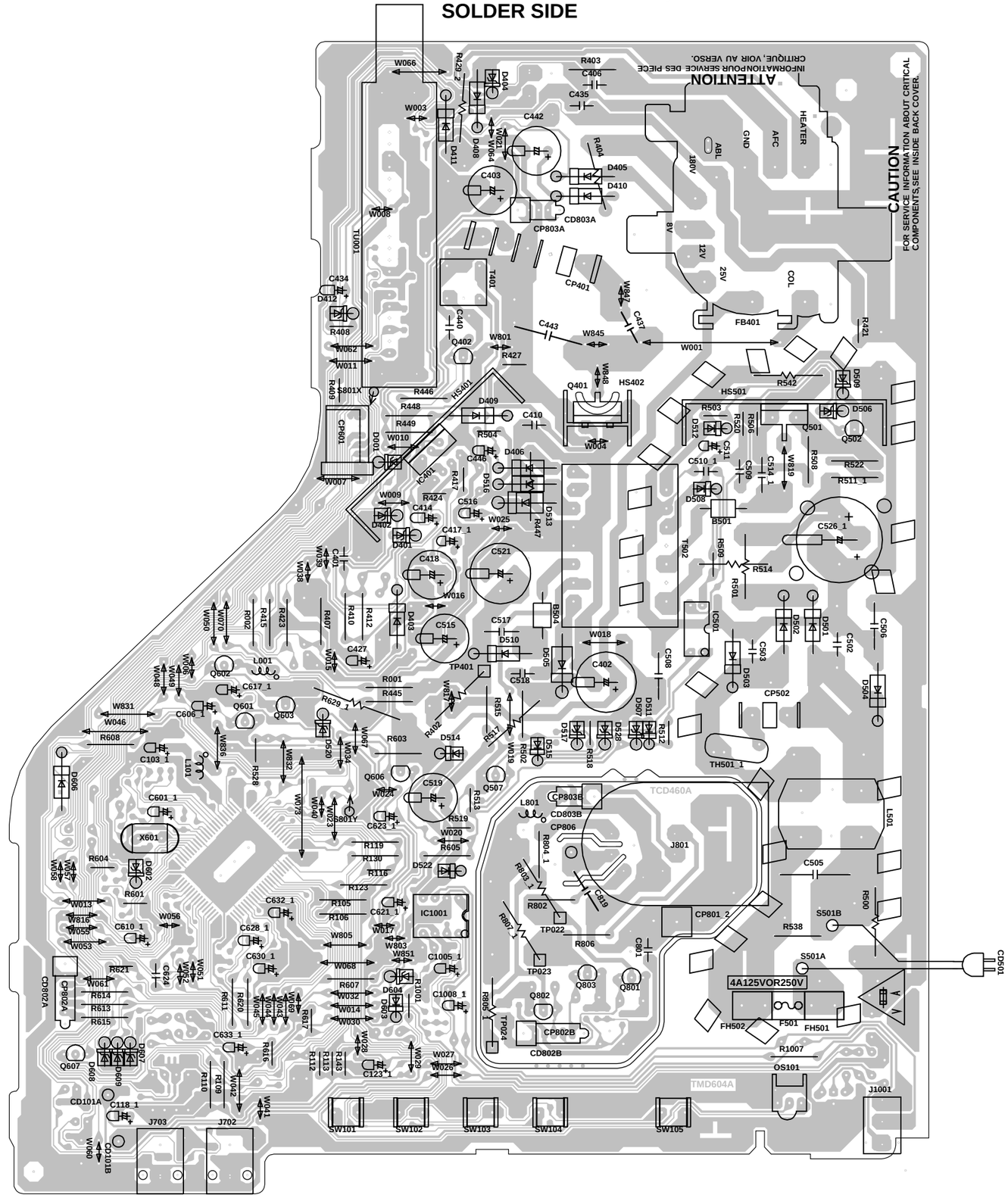
4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



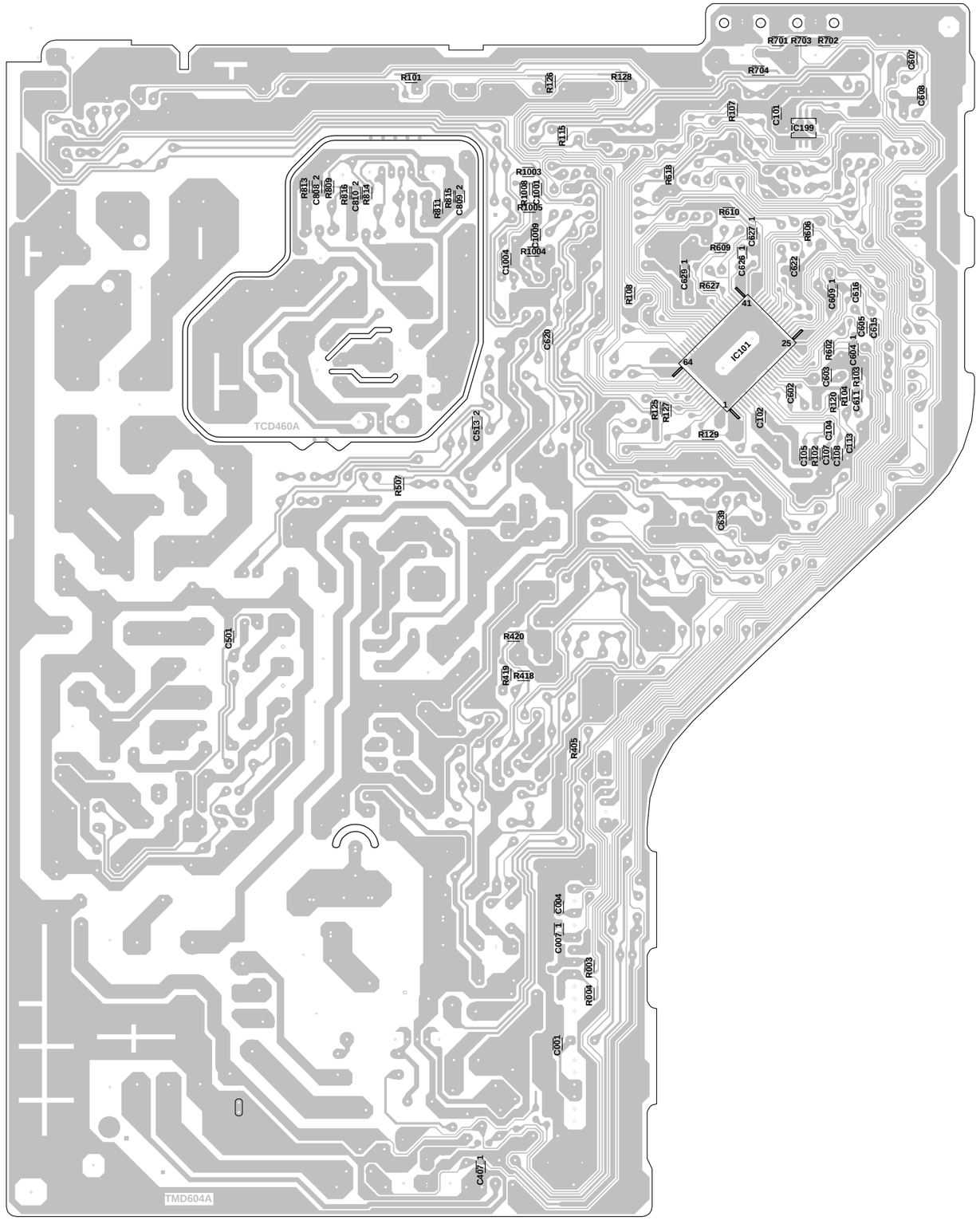
BLOCK DIAGRAM



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



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



MICON/CHROMA/TUNER SCHEMATIC DIAGRAM
(MAIN PCB)

1	CNVSS	41	NC
2	XIN	42	HVCO F/B
3	XOUT	43	AFC FILTER
4	TEST1	44	DEF GND
5	VSS	45	FBP IN
6	MCU VCC	46	H OUT
7	TEST0	47	DEF VCC
8	FILT	48	NC
9	HLT	49	HI VCC
10	VHOLD	50	R OUT
11	CVIN	51	G OUT
12	RESET IN	52	B OUT
13	MCU RESET OUT	53	ACL
14	Y SW OUT	54	NC
15	V/C GND	55	PROTECT
16	3.58 XTAL	56	SDA
17	C-APC	57	H_CTL
18	MCU5.7V REG OUT	58	SCL
19	NC	59	NC
20	CVBS IN3	60	NC
21	AUDIO IN3	61	NC
22	V/C VCC	62	DEGAUSS_H
23	MCU TEST	63	STANDBY_H
24	CVBS IN2	64	VOLUME
25	AUDIO IN2	65	NC
26	CVBS IN1	66	AFT
27	AUDIO IN1	67	KEY1
28	5.7V REG OUT	68	KEY2
29	C(Y/C) IN	69	POWER_ON
30	Y(Y/C) IN	70	REMOCON
31	VREG VCC	71	AV2
32	FSC OUT	72	AV1
33	MONITOR OUT	73	AUDIO_MUTE
34	AUDIO ATT OUT	74	X-RAY
35	AUDIO ATT FILTER	75	IIC_OFF
36	NC	76	ON_TIMER
37	V RAMP F/B	77	SYNC
38	V RAMP OUT	78	POWER FAIL
39	V RAMP CAP	79	X-RAY_TEST
40	8.7V REG OUT	80	EXT_MUTE

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 REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

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

◀ R.SIGNAL
◀ G.SIGNAL
≪ B.SIGNAL

⋘ DEFLECTION SIGNAL
◁◁ TUNER VIDEO SIGNAL

TV POWER SCHEMATIC DIAGRAM
(MAIN PCB)

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'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 4A 125V (F501).

4A 125V

DEGAUSS COIL L503 8R140032

CP502 A1561WV2-2P

TH501_1 B59203-S1060-B14

R500 2.7M 1/2W +-10%

AC120V_60Hz CD501 0R414903

BLACK

WHITE

BLADE WIDE

S501A

S501B

F501 4A125V

FH501 EYF-52BCY

FH502 EYF-52BCY

C505 275V 0.1 ECQUL

R538 1.5M 1/2W

COIL,LINE FILTER L501 SS11V-10062-CH

R501 3.3 5W

D501 1N4005-EIC

D502 1N4005-EIC

D503 1N4005-EIC

D504 1N4005-EIC

C502 500V 0.001 B

C503 500V 0.001 B

C526_1 2KV 220 YK

D509 MTZJ16B

R522 1.2M 1/2W

R511_1 1.2M 1/2W

T502 81291084

R514 0.22 1W

B501 W5RH3.5X5X1.0

C514_1 2KV 820P RR

W819

POWER AMP Q501 2SK3563(ORION_Q)

C506 250V 0.0033 KX

C508 250V 0.0022 KX

R508 220 1/2W

C509 0.047 TF

D508 1SS133

R520 12K 1/4W

R509 220 1/4W

D512 1SS133

R503 100 1/4W

C511 50V 1 KA

D506 MTZJ18B

BUFFER Q502 KTC3198

R542 0.68 1W

HS501 763WSAA013

R506 2.7K 1/4W

C501 0.0082

C510_1 0.039 TF

FEED BACK IC501 PS2561AL1-1-V(W)

R512 680 1/4W

D528 MTZJ5.6B

D515 1SS133

D507 MTZJ3.6B

D511 1SS133

R513 2.2K 1/4W

C513_2 0.001 B

R515 120K 1/2W

FEED BACK SWITCHING Q507 KTC3198

R519 1.2K 1/4W

D514 1SS133

D522 1SS133

R507 27

R518 5.6K +-1%

B504 W5RH3.5X5X1.0

D505 21DQ09N

C518 500V470P B

R517 1 1W

C519 16V 1000 YK

D510 RU2AM-EIC

C517 2KV 820P RR

C521 160V 100 MHE

R528 6.8K 1/4W

D520 MTZJ6.2B

W832

D516 1N4937-PAN

R504 100 1/4W

C516 50V 10 YK

D513 21DQ09N

C515 16V 1000 YK

S801Y

R502 1K 1/4W

D517 MTZJ4.7B

TO SOUND/AV

GND

SOUND+B

SOUND_GND

TO DEFLECTION/CRT

+B

UNREG+12V

GND

FROM/TO MICON/CHROMA/TUNER

+B

POWER_FAIL

UNREG+12V

GND

PCB010 TMC596

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.

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

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DEFLECTION/CRT SCHEMATIC DIAGRAM (MAIN PCB)

FROM MICON/CHROMA/TUNER

CLAMP
G.OUT
R.OUT
B.OUT

CP802A B2013H02-5P — CD802 — CP802B B2013H02-5P

GND	GND	1	GND
CLAMP	CLAMP	2	CLAMP
G.OUT	G.OUT	3	G.OUT
R.OUT	R.OUT	4	R.OUT
B.OUT	B.OUT	5	B.OUT

CP803A B2013H02-3P — CD803 — CP803B B2013H02-3P

HEATER	HEATER	1	HEATER
GND	GND	2	GND
180V	180V	3	180V

⚠ V-OUT IC IC401 LA78040N-E

THERMAL PROTECTION, PUMP UP, AMP

1	2	3	4	5	6	7
3.5	25.0	2.0	0	12.0	25.0	3.5

C414 ⚠ 35V 100 YK

CD801_1 CU012401 — CP801_2 003P-2100 — L801 100uH

R423 100 1/4W — D403 1N4002-PAN

R424 470 1/4W — R418 22K — R420 2.7K — R419 470 — C417_1 ⚠ 25V 10 KA — C418 ⚠ 470 YK 25V

R417 82K 1/4W — R407 2.2 1/2W — HS401 763WSAA013

R410 330 1/2W — R412 560 1/2W — C401 0.22 TF — R415 1K 1/2W

D401 MTZJ30B — D402 MTZJ30B

C427 50V 10 YK

V801 A34AGT13X98(L)

TO DY — CP401 A1561WV2-A5P

C434 ⚠ 100V 22 YK

D412 MTZJ5.1B — R408 10K +-1%

R429_2 ⚠ 4.7 3W — D411 ⚠ 1N4937-PAN

FROM/TO MICON//CHROMA/TUNER

X-RAY — W831 — R409 ⚠ 56K +-1%

W847 — C437 250V 0.47 PMS

T401 STP-03Q24

H.DRIVE Q402 2SC1627_Y 27.0 — R446 470 1/2W — C440 100V 0.01 TF — C446 50V 22 YK — C410 500V 680P B — R427 100 1/4W — R405 1K

H.OUTPUT Q401 TT2140LS-YBC11 — W848 — W845 — C443 ⚠ 1.25KV 0.0091 PHE

HS402 763WSA0017

FROM TV POWER

GND — V_FEEDBACK — V_OUT — ABCL — H_OUT — H_SYNC — TP401

+B — R402 1 1W — W817

FB401 BSC23-N0147

130.0	COL	1	HV
132.5	VIDEO	6	F
132.5	B+	2	S
48.0	AFC	9	GND 0
7.0	HEA	10	ABL 4.3
0	TER		
	GND	8	
NC	E12	4	GND 0
25.0	E25	3	E8 NC

R403 10K 1/4W — C406 500V 220P B

D404 MTZJ6.2B — C407_1 0.001 B — D405 ⚠ 1N4937-PAN — R404 1 1W

D410 ⚠ 1N4937-PAN — C442 ⚠ 250V 10 YK

UNREG+12V — R447 ⚠ 150 2W — D406 ⚠ 1N4002-PAN

D409 1N4002-PAN — C402 ⚠ 160V 100 MHE — R449 560 1/2W — R448 560 1/2W

R445 180K 1/4W — C435 100V 0.1 TF — C403 ⚠ 35V 470 YK — R421 220K 1/4W — D408 1N4002-PAN

RED OUT Q801 2SC1473A 3.2 — R809 2.7K — GREEN OUT Q802 2SC1473A 3.2 — R811 2.7K — BLUE OUT Q803 2SC1473A 3.2 — R814 2.7K

100.6 — 98.4 — 95.4 — 2.7

C808_2 470P CH — R813 270 — C809_2 470P CH — R815 270 — C810_2 470P CH — R816 270

TP022 — TP024 — TP023

R803_1 ⚠ 1W 15K — R802 1/4W 2.7K — R805_1 ⚠ 1W 15K — R804_1 1/4W 2.7K — R807_1 ⚠ 1W 15K — R806 1/4W 2.7K

C801 B 330P

FOCUS — SCREEN — CP806

C819 B 2KV0.001

J801 ⚠ ISMS01S — 96.4 — 101.6 — 0 — 6.4 — 99.6

PCB110 TCC452

PCB010 TMC596

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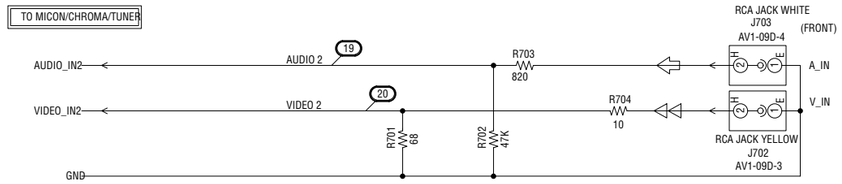
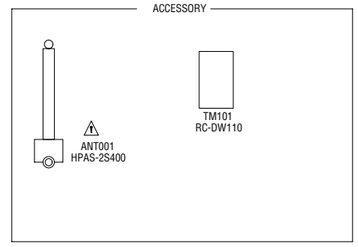
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

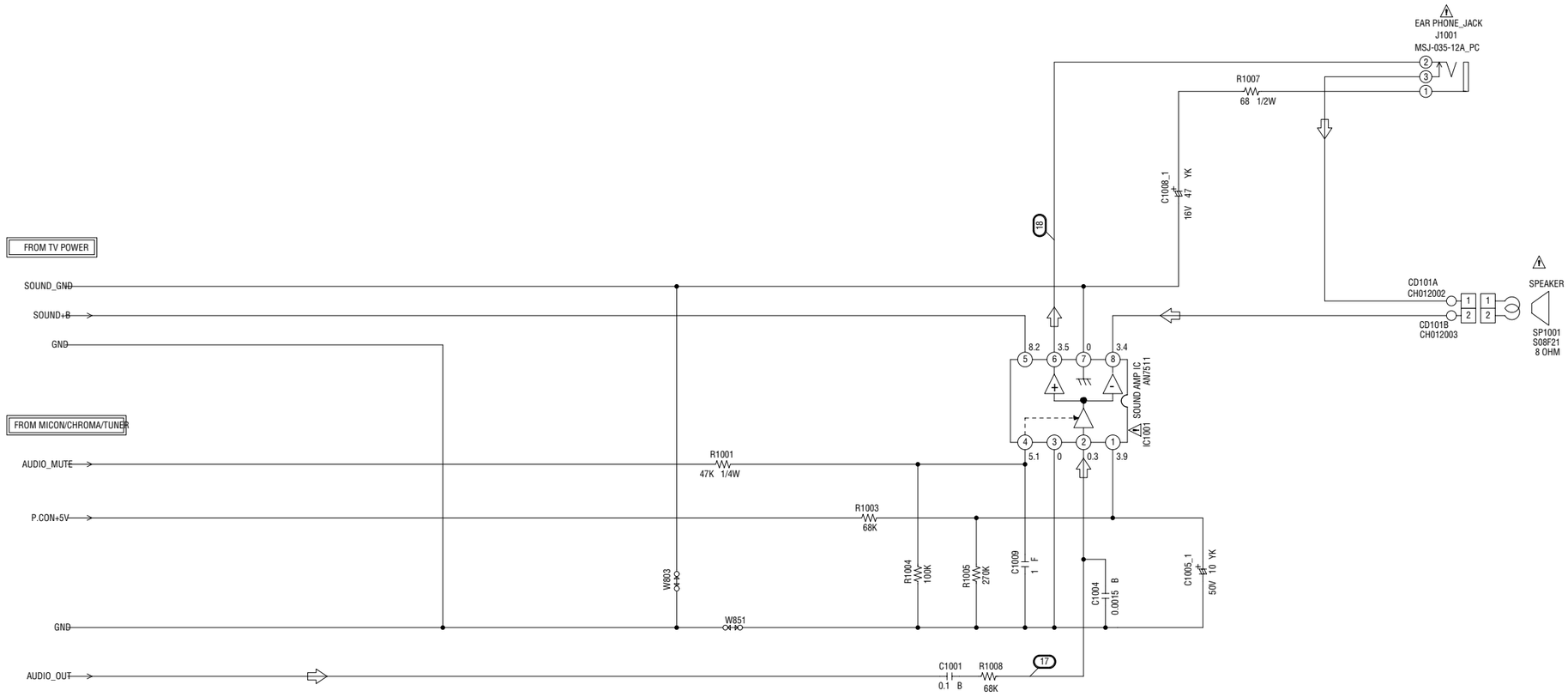
◀ R.SIGNAL
◀ G.SIGNAL
≪ B.SIGNAL
⇚ DEFLECTION SIGNAL

SOUND/AV 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.

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

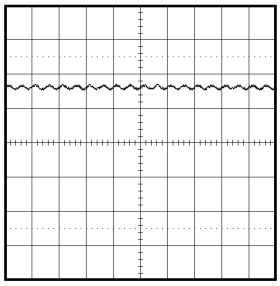
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY 。

◁◁ TUNER VIDEO SIGNAL

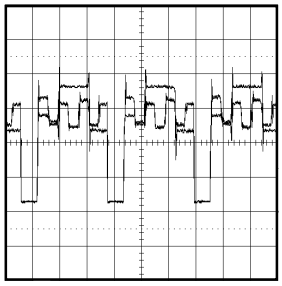
⇦ AUDIO SIGNAL

WAVEFORMS

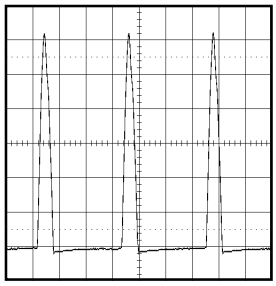
MICON/CHROMA/TUNER



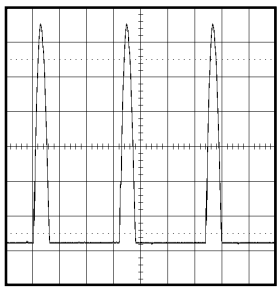
① 0.5V 2ms/div



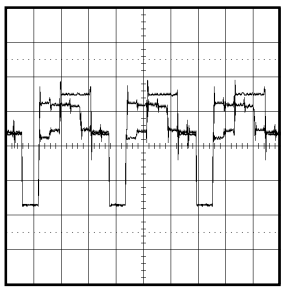
⑥ 1V 20µs/div



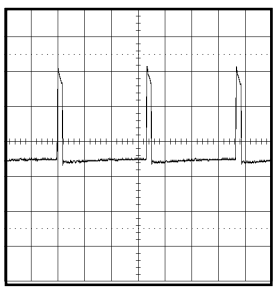
⑪ 200V 20µs/div



② 20V 20µs/div

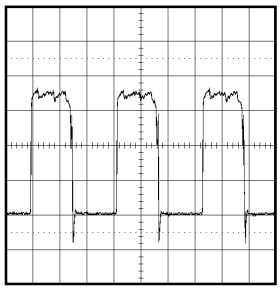


⑦ 1V 20µs/div

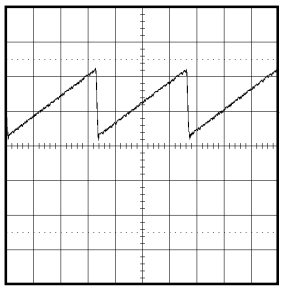


⑫ 10V 5ms/div

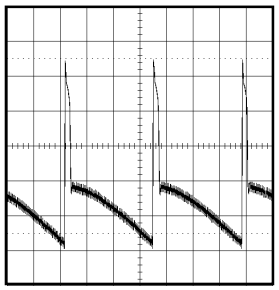
DEFLECTION/CRT



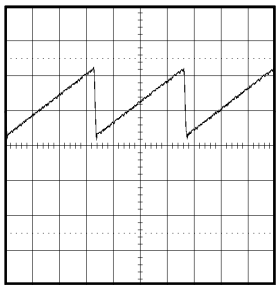
③ 200mV 20µs/div



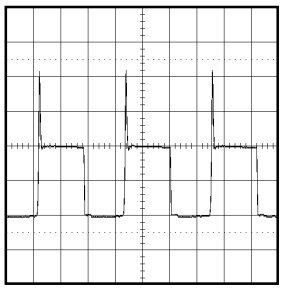
⑧ 0.5V 5ms/div



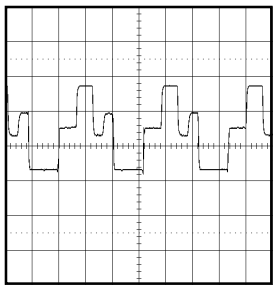
⑬ 10V 5ms/div



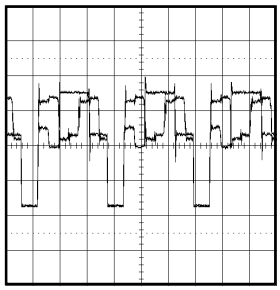
④ 0.5V 5ms/div



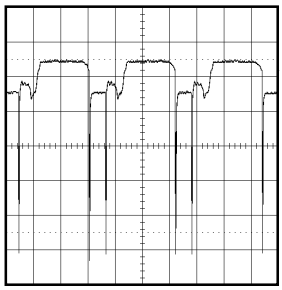
⑨ 20V 20µs/div



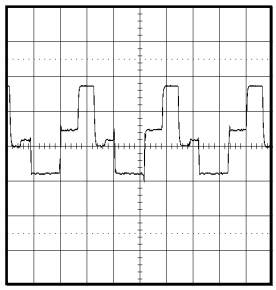
⑭ 50V 20µs/div



⑤ 1V 20µs/div



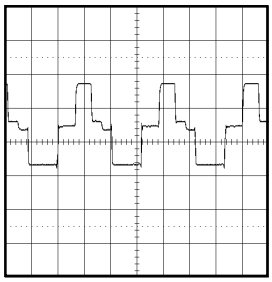
⑩ 2V 20µs/div



⑮ 50V 20µs/div

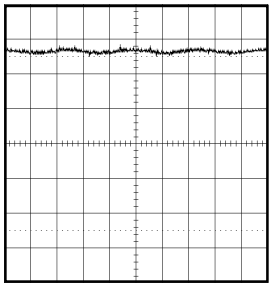
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

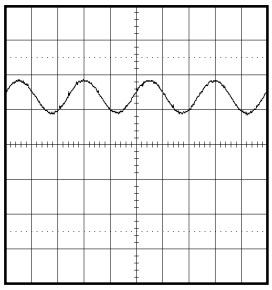


⑯ 50V 20µs/div

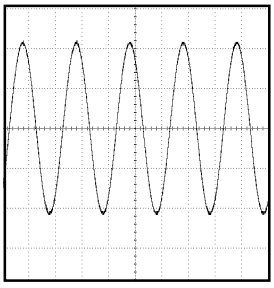
SOUND/AV



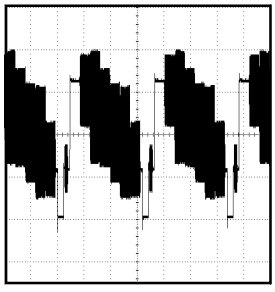
⑰ 0.5V 1ms/div



⑱ 1V 1ms/div



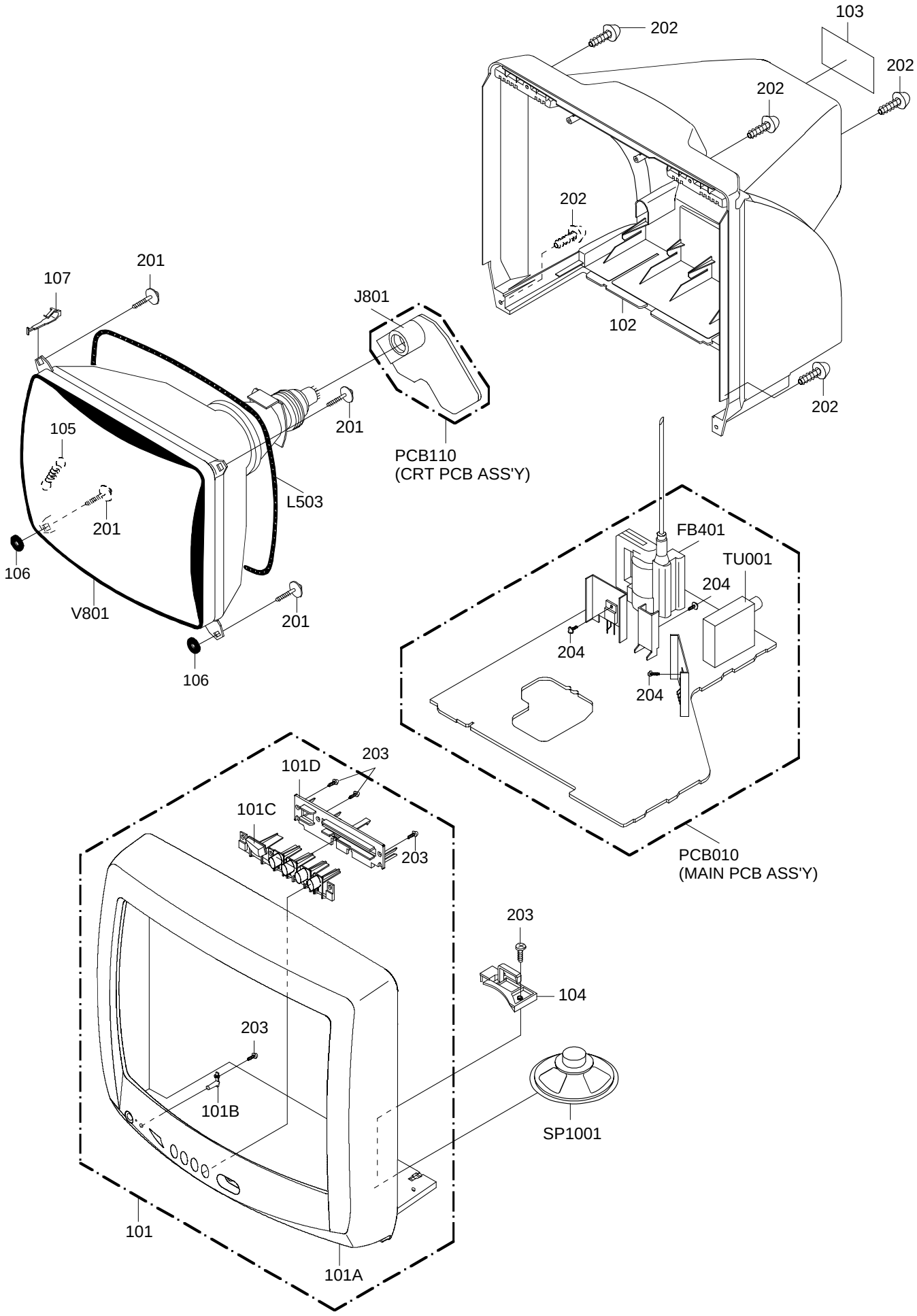
⑲ 200mV 500µs/div



⑳ 500mV 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	7A701A125A	FRONT,CABI ASS'Y		
101A	701WPJC694	CABINET,FRONT		
101B	713WPAA145	GUIDE,REMOCON		
101C	735WPBB122	BOTTON,FRAME		
101D	735WPAA679	BUTTON,BASE		
102	A3R006V740	CABINET,BACK ASS'Y		
103	722A08A149	SHEET,RATING		
104	735WPA0396	SPEAKER,HOLDER		
105	741WUA0019	SPRING,EARTH		
106	800WR0A011	SHEET CRT SUPPORT (D)		
107	8994101000	HOLDER,CRT WIRE		
201	8121J50B54	SCREW,TAP TITE(P)	GW20	5x28
202	8117540A64	SCREW,TAPPING(B0)	TRUSS	4x16
203	8110630A04	SCREW,TAP TITE(P)	BRAZIER	3x10
204	8109I30804	SCREW,TAP TITE(B)	WH7	3x8
---	A3R006V975	INSTRUCTION BOOK KIT		
---	J3R00601A	INSTRUCION BOOK		
---	J3R00602A	WARRANTY SHEET		
---	JB5U0200	POLYBAG,INSTRUCTION		
---	791WHA0023	LAMIFILM BAG		
---	792WHAA018	PACKAGE,BOTTOM		
---	792WHAA019	PACKAGE,TOP		
---	793WCDC269	GIFT,BOX		

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		RESISTORS		
R402	R3T181010J	R,METAL OXIDE	1 OHM 1W	or
	R3K581010J	R,METAL OXIDE	1 OHM 1W	
R404	R63581010J	R,FUSE	1 OHM 1W	
⚠ R408	R4X5T6103F	R,METAL	10K OHM 1/6W	or
	R4T5T6103F	R,METAL	10K OHM 1/6W	
⚠ R409	R4X5T6563F	R,METAL	56K OHM 1/6W	or
	R4T5T6563F	R,METAL	56K 0HM 1/6W	
⚠ R429	R3T28B4R7J	R,METAL OXIDE	4.7 OHM 3W	or
	R3K58B4R7J	R,METAL OXIDE	4.7 OHM 3W	
⚠ R447	R3T28A151J	R,METAL OXIDE	150 OHM 2W	or
	R3K58A151J	R,METAL OXIDE	150 OHM 2W	
⚠ R500	R0G3K2275K	RC	2.7M OHM 1/2W	
⚠ R501	R5T2CD3R3J	R,CEMENT	3.3 OHM 5W	or
	R5X2CD3R3J	R,CEMENT	3.3 OHM 5W	
⚠ R509	R002T4221J	RC	220 OHM 1/4W	
⚠ R514	R63581R22J	R,FUSE	0.22 OHM 1W	
⚠ R515	R002T2124J	RC	120K OHM 1/2W	
⚠ R517	R3T181010J	R,METAL OXIDE	1 OHM 1W	or
	R3K581010J	R,METAL OXIDE	1 OHM 1W	
⚠ R518	R4X5T6562F	R,METAL	5.6K OHM 1/6W	or
	R4T5T6562F	R,METAL	5.6K OHM 1/6W	
⚠ R519	R002T4122J	RC	1.2K OHM 1/4W	
⚠ R538	R002T2155J	RC	1.5M OHM 1/2W	
⚠ R542	R3T181R68J	R,METAL OXIDE	0.68 OHM 1W	or
	R3K581R68J	R,METAL OXIDE	0.68 OHM 1W	
⚠ R629	R3T28B220J	R,METAL OXIDE	22 OHM 3W	or
	R3K58B220J	R,METAL OXIDE	22 OHM 3W	
⚠ R803	R3T181153J	R,METAL OXIDE	15K OHM 1W	or
	R3K581153J	R,METAL OXIDE	15K OHM 1W	
⚠ R805	R3T181153J	R,METAL OXIDE	15K OHM 1W	or
	R3K581153J	R,METAL OXIDE	15K OHM 1W	
⚠ R807	R3T181153J	R,METAL OXIDE	15K OHM 1W	or
	R3K581153J	R,METAL OXIDE	15K OHM 1W	
		CAPACITORS		
C402	E5EZFB101M	CE	100 UF 160V	
⚠ C403	E02LT4471M	CE	470 UF 35V	
⚠ C414	E02LU4101M	CE	100 UF 35V	
⚠ C418	E02LT3471M	CE	470 UF 25V	
⚠ C434	E02LU8220M	CE	22 UF 100V	
C437	P4J7F3474J	CMPP	0.47 UF 250V PMS	
⚠ C443	P4G8FJ912H	CMPP	0.0091UF 1.25KV PHE	
⚠ C446	E02LU5220M	CE	22 UF 50V	
⚠ C503	C0JTB0513K	CC	0.001 UF 500V B	
⚠ C505	P2122B104M	CMP	0.1 UF 275V ECQUL	
⚠ C506	CD39E0ML3M	CC	0.0033UF 250V	
⚠ C508	CD39E0MH3M	CC	0.0022UF 250V	
C514	C0PLRR7W2K	CC	820 PF 2KV RR	
C517	C0PLRR7W2K	CC	820 PF 2KV RR	
⚠ C519	E02LT2102M	CE	1000 UF 16V	
C521	E5EZFB101M	CE	100 UF 160V	
⚠ C526	E02LFC221M	CE	220 UF 200V	
⚠ C801	CHGTB04L2K	CC	330 PF 50V B	
C819	C0JBB0713K	CC	0.001 UF 2KV B	
		DIODES		
D001	D97U03301B	DIODE,ZENER	MTZJ33B T-77	
D401	D97U03001B	DIODE,ZENER	MTZJ30B T-77	
D402	D97U03001B	DIODE,ZENER	MTZJ30B T-77	
D403	D2MXN40020	DIODE,FAST RECOVERY	1N4002-PAN	or
	D2WT011E10	DIODE SILICON	11E1-EIC	
D404	D97U06R21B	DIODE,ZENER	MTZJ6.2B T-77	
⚠ D405	D2MXN49370	DIODE,FAST RECOVERY	1N4937-PAN	or
	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
D406	D2MXN40020	DIODE,FAST RECOVERY	1N4002-PAN	or
	D2WT011E10	DIODE SILICON	11E1-EIC	
D408	D2MXN40020	DIODE,FAST RECOVERY	1N4002-PAN	or
	D2WT011E10	DIODE SILICON	11E1-EIC	
D409	D2MXN40020	DIODE,FAST RECOVERY	1N4002-PAN	or
	D2WT011E10	DIODE SILICON	11E1-EIC	
⚠ D410	D2MXN49370	DIODE,FAST RECOVERY	1N4937-PAN	or
	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
⚠ D411	D2MXN49370	DIODE,FAST RECOVERY	1N4937-PAN	or
	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
⚠ D412	D97U05R11B	DIODE,ZENER	MTZJ5.1B T-77	
⚠ D501	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D502	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D503	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D504	D2WXN40050	DIODE SILICON	1N4005-EIC	

REF. NO.	PART NO.	DESCRIPTION		
		DIODES		
⚠ D505	D28T21DQN9	DIODE SCHOTTKY	21DQ09N-TA2B1	
D506	D97U01801B	DIODE,ZENER	MTZJ18B T-77	
D507	D97U03R61B	DIODE,ZENER	MTZJ3.6B T-77	
D508	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D509	D97U01801B	DIODE,ZENER	MTZJ18B T-77	
⚠ D510	D2WXRU2AM0	DIODE SILICON	RU2AM-EIC	
D511	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D512	D1VT001330	DIODE,SILICON	1SS133T-77	
D513	D28T21DQN9	DIODE SCHOTTKY	21DQ09N-TA2B1	
D514	D1VT001330	DIODE,SILICON	1SS133T-77	
D515	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D516	D2MXN49370	DIODE,FAST RECOVERY	1N4937-PAN	or
	D2WXN49370	DIODE SILICON	1N4937	
D517	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D520	D97U06R21B	DIODE,ZENER	MTZJ6.2B T-77	
D522	D1VT001330	DIODE,SILICON	1SS133T-77	
D528	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D602	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
D603	D1VT001330	DIODE,SILICON	1SS133T-77	
D604	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
D606	D2MXN40020	DIODE,FAST RECOVERY	1N4002-PAN	or
	D2WT011E10	DIODE SILICON	11E1-EIC	
D607	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
D608	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
D609	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
		ICS		
IC101	I56F07091B	IC	OEC7091B	
IC199	A3R001X015	INIT DATA		
⚠ IC401	I03TD804N0	IC	LA78040N-E	
⚠ IC501	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	
IC1001	I01DP75110	IC	AN7511	
		TRANSISTORS		
⚠ Q401	TD3Q021400	TRANSISTOR SILICON	TT2140LS-YBC11	
⚠ Q402	TC5T01627Y	TRANSISTOR SILICON	2SC1627_Y(TPE2)	
⚠ Q501	T25F035630	FET	2SK3563(ORION_Q)	
⚠ Q502	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q507	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q601	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q602	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q603	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q606	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q607	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
⚠ Q801	TCKT1473A0	TRANSISTOR SILICON	2SC1473A-TA-(RQ)	
⚠ Q802	TCKT1473A0	TRANSISTOR SILICON	2SC1473A-TA-(RQ)	
⚠ Q803	TCKT1473A0	TRANSISTOR SILICON	2SC1473A-TA-(RQ)	
		COILS &TRANSFORMERS		
L001	02167F3R3J	COIL	3.3 UH	
L101	02167F3R3J	COIL	3.3 UH	
⚠ L501	029X000417	COIL,LINE FILTER	SS11V-10062-CH	
⚠ L503	028R140032	COIL,DEGAUSS	8R140032	
L801	021673101K	COIL	100 UH	
T401	045011001L	TRANS,HORIZONTAL DRIVE	STP-03Q24	
⚠ T502	0481291084	TRANSFORMER,SWITCHING	81291084	
		JACKS		
J702	060Q401077	RCA JACK	AV1-09D-3	
J703	060Q401076	RCA JACK	AV1-09D-4	
⚠ J801	066F120018	SOCKET,CATHODE RAY TUBE	ISMS01S	
J1001	060J121014	JACK,RCA,3.5	MSJ-035-12A_PC	
		SWITCHES		
SW101	0504101T34	SWITCH,TACT	EVQ21505R	
SW102	0504101T34	SWITCH,TACT	EVQ21505R	
SW103	0504101T34	SWITCH,TACT	EVQ21505R	
SW104	0504101T34	SWITCH,TACT	EVQ21505R	
SW105	0504101T34	SWITCH,TACT	EVQ21505R	
		P.C.BOARD ASSEMBLIES		
PCB010	A3R006V010	PCB ASS'Y	TMD604A	
PCB110	A3R001X110	PCB ASS'Y	TCD460A	
		MISCELLANEOUS		
ANT001	125C104001	ANTENNA,ROD	HPAS-2S400	
B501	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
B504	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
⚠ CD501	1209414909	CORD AC BUSH	9414909	or
	120R414903	CORD AC BUSH	0R414903	
CD801	06CU012401	CORD CONNECTOR	CU012401	
⚠ CP401	069S450089	CONNECTOR PCB SIDE	A1561WV2-A5P	
⚠ CP502	069S420110	CONNECTOR PCB SIDE	A1561WV2-2P	
CP601	0694260139	CONNECTOR PCB SIDE	173979-6	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		MISCELLANEOUS		
	CP801	069W01001A	CONNECTOR PCB SIDE	003P-2100
	CD101A	06CH012002	CORD CONNECTOR	CH012002
	CD101B	06CH012003	CORD CONNECTOR	CH012003
	CP802A	067U005049	WIRE HOLDER	B2013H02-5P
	CP802B	067U005049	WIRE HOLDER	B2013H02-5P
	CP803A	067U003029	WIRE HOLDER	B2013H02-3P
	CP803B	067U003029	WIRE HOLDER	B2013H02-3P
⚠	F501	081PC04005	FUSE	51MS040L
⚠	FB401	043214051Y	TRANSFORMER,FLYBACK	BSC23-N0147
	FH501	06710T0009	HOLDER,FUSE	EYF-52BCY
	FH502	06710T0009	HOLDER,FUSE	EYF-52BCY
	OS101	077Q000025	REMOTE RECEIVER	KSM-713SY
	S102	WCL6836038	FLAT CABLE AWM2468	AWG26 5C GRAY 360MM
	SP1001	070Y132018	SPEAKER	S08F21
⚠	TH501	D8EE0B1400	DEGAUSS ELEMENT	B59203-S1060-B14
	TM101	076N0DW110	TRANSMITTER	RC-DW110
	TU001	0163100011	RF UNIT	ENG36A01GY or
		0163300005	RF UNIT	115-V-K015AR_B
⚠	V801	098Q1404B2	CRT W/DY	A34AGT13X98(L)
	X601	100BT3R537	CRYSTAL	HC-49U

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.	M3R0-06V
O/R NO.	K443037

Memorex®

CLASS 1
LASER PRODUCT

MT1134

SERVICE MANUAL

COLOR TELEVISION RECEIVER

REVISION 1
MFR'S VERSION A

MFR'S VERSION	V801
B	A34AGT13X98(L)
A	A34JXV70X53N45

Please file the revision with the original version.

Change of CRT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	MFR'S VERSION B		MFR'S VERSION A	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
⚠ V801	098Q1404B2	CRT W/DY A34AGT13X98(L)	098Y1404B9	CRT W/DY A34JXV70X53N45

SPEC.NO.	M3R0-06X
O/R NO.	K4X3003

Memorex®

MT1134

SERVICE MANUAL

COLOR TELEVISION RECEIVER

REVISION 2
MFR'S VERSION C

MFR'S VERSION	V801	IC101
B	A34JXV70X53N45	OEC7091B
A	A34AGT13X98(L)	
C		OEC7091C

Please file the revision with the original version.

MICON VERSION UP

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	MFR'S VERSION A		MFR'S VERSION C	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
IC101	I56F07091B	IC OEC7091B	I56F07091C	IC OEC7091C
PCB010	A3R002X010	MAIN PCB ASS'Y (VERSION A) TMD604B	A3R002X010	MAIN PCB ASS'Y (VERSION C) TMD604B

MAIN PCB's are interchangeable.

WHEN REPLACING EEPROM (MEMORY) IC

ADDRESS	MFR'S VERSION A	MFR'S VERSION C
	DATA	DATA
00	50	D0
0A	0B	00

SPEC.NO.	M3R0-06X
O/R NO.	K4Z3044