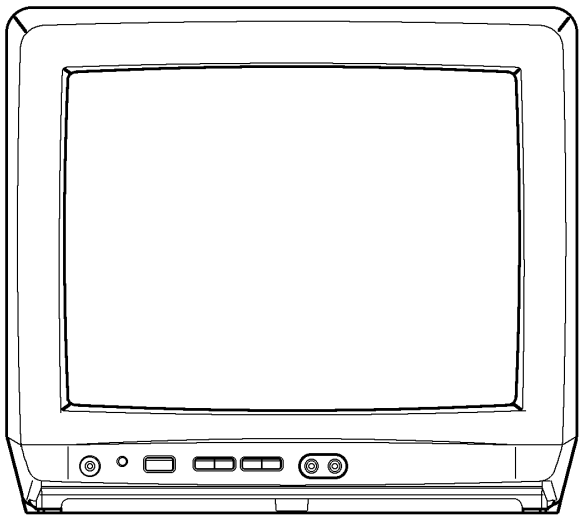
Memorex®

MT1132A

SERVICE MANUAL

COLOR TELEVISION RECEIVER



ORIGINAL
MFR'S VERSION A

Memorex®

MT1132A

SERVICE MANUAL

COLOR TELEVISION RECEIVER

ORIGINAL 2
MFR'S VERSION P

MFR'S VERSION	PCB010	TU001	V801
A	TMX494A	NJH3022U268	A34AGT13X98(L)
F	TMX494B		
K		TECC1040PG32D	
P			A34JXV70X53N45

Pleas file the revision with the original version.

Change of CRT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	MFR'S VERSION K		MFR'S VERSION P	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
⚠ V801	098Q1404B2	CRT W/DY A34AGT13X98(L)	098Y1404B9	CRT W/DY A34JXV70X53N45
⚠ R429	R655812R7J	R,FUSE 2.7 OHM 1W	R655812R2J	R,FUSE 2.2 OHM 1W
C804	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
C805	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
C806	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
⚠ CP401	069X450029	CONNECTOR PCB SIDE B05B-DVS	069D450049	CONNECTOR PCB SIDE TD-50-5P
PCB010	A3J812A010	MAIN PCB ASS'Y (VERSION K) TMX494B	A3J804C010	MAIN PCB ASS'Y (VERSION K) TMX494B

MAIN PCB's are not interchangeable.

SPEC.NO.	M3J8-12C
O/R NO.	K193004

Memorex®

MT1132A

SERVICE MANUAL

COLOR TELEVISION RECEIVER

ORIGINAL 1
MFR'S VERSION F, K

MFR'S VERSION	PCB010	TUNER
A	TMX494A	NJH3022U268
F	TMX494B	
K		TECC1040PG32D

ELECTRICAL ADJUSTMENTS

(MFR'S VERSION K)

2. BASIC ADJUSTMENTS

2-1: RF AGC DELAY

1. Place the set with Aging Test for more than 15 minutes.
2. Receive the VHF HIGH (63dB).
3. Connect the digital voltmeter to **R606**.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(02)** on the remote control to select "RF AGC DELAY".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is 2.7 ± 0.05V.

ELECTRICAL REPLACEMENT PARTS LIST

PCB VERSION UP

	MFR'S VERSION A		MFR'S VERSION F	
REF. NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
PCB010	A3J812A010	MAIN PCB ASS'Y (VERSION A) TMX494A	A3J812A010	MAIN PCB ASS'Y (VERSION F) TMX494B

MAIN PCB's are interchangeable.

Change of TUNER

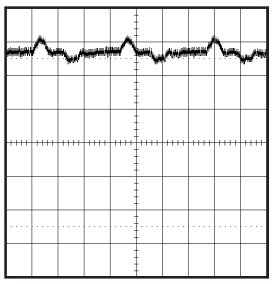
	MFR'S VERSION F		MFR'S VERSION K	
REF. NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
⚠ TU001	0145W00052	TUNER,VHF-UHF NJH3022U268	0145K00055	TUNER,VHF-UHF TECC1040PG32D
R622	R903N8121J	RC 120 OHM 1/8W	R903N8271J	RC 270 OHM 1/8W
PCB010	A3J812A010	MAIN PCB ASS'Y (VERSION F) TMX494B	A3J812A010	MAIN PCB ASS'Y (VERSION K) TMX494B

MAIN PCB's are interchangeable.

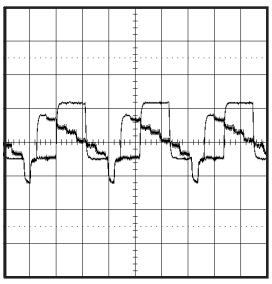
SPEC.NO.	M3J8-12A
O/R NO.	K163004

WAVEFORMS

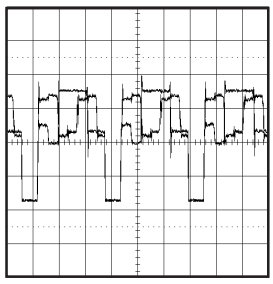
MICON/TUNER



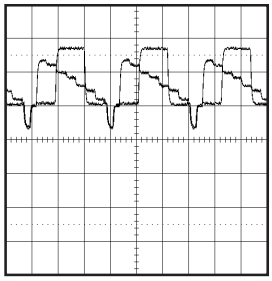
① 200mV 5ms/div



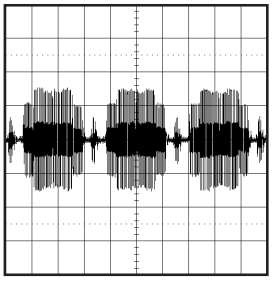
⑥ 0.5V 20µs/div



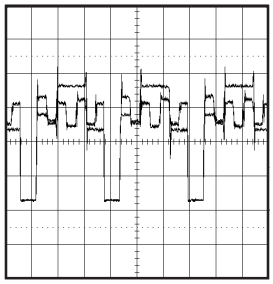
⑪ 1V 20µs/div



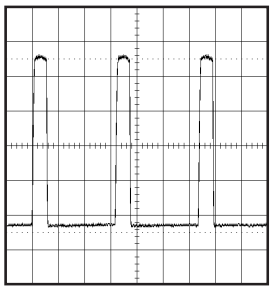
② 0.5V 20µs/div



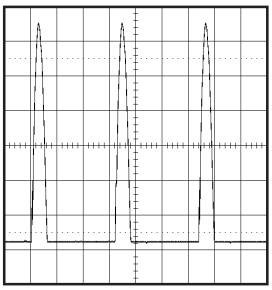
⑦ 200mV 20µs/div



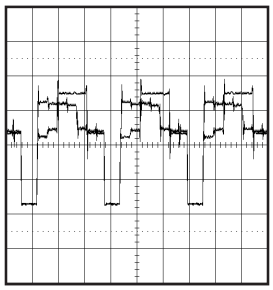
⑫ 1V 20µs/div



③ 200mV 20µs/div

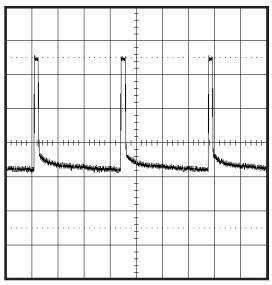


⑧ 20V 20µs/div

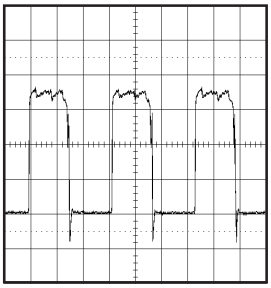


⑬ 1V 20µs/div

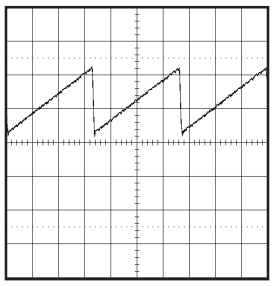
DEFLECTION/CRT



④ 200mV 5ms/div

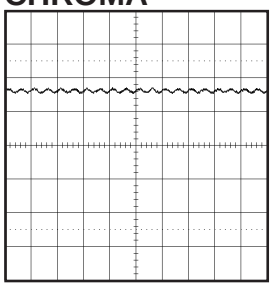


⑨ 200mV 20µs/div

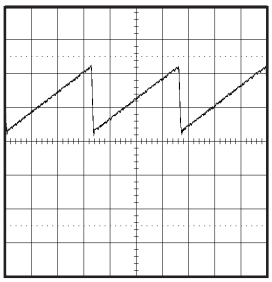


⑭ 0.5V 5ms/div

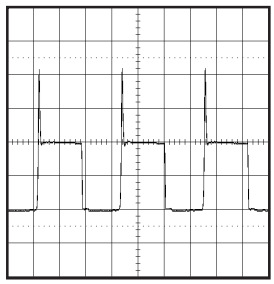
CHROMA



⑤ 0.5V 2ms/div



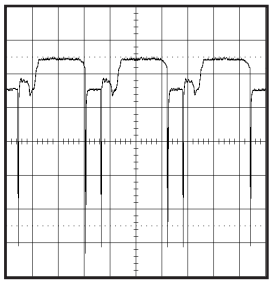
⑩ 0.5V 5ms/div



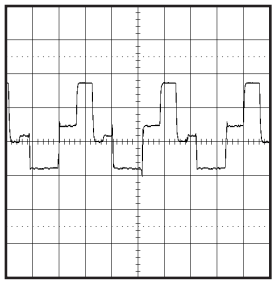
⑮ 20V 20µs/div

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

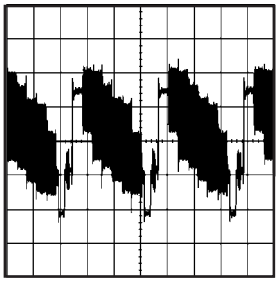
WAVEFORMS



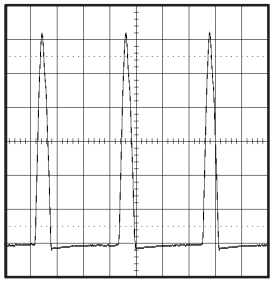
⑯ 2V 20µs/div



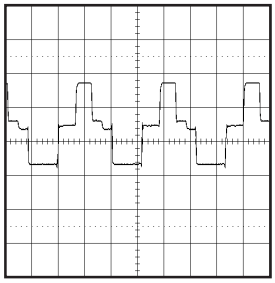
㉑ 50V 20µs/div



㉖ 500mV 20us/div

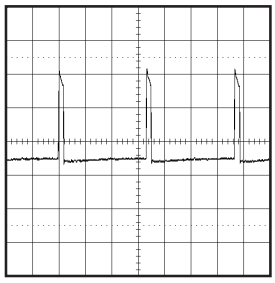


⑰ 200V 20µs/div

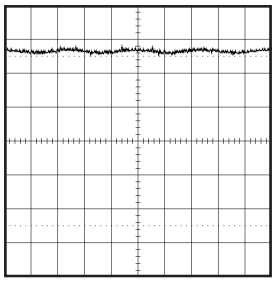


㉒ 50V 20µs/div

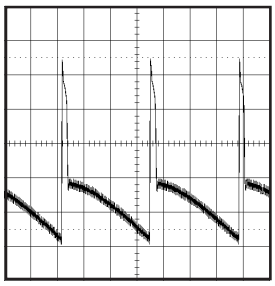
SOUND/AV



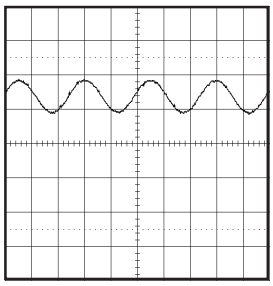
⑱ 10V 5ms/div



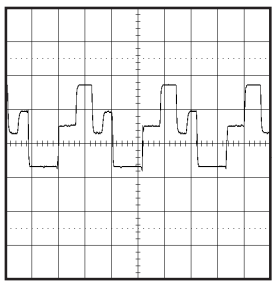
㉓ 0.5V 1ms/div



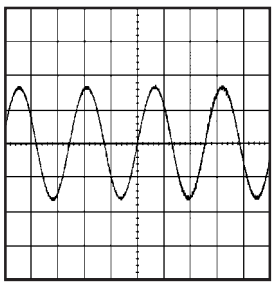
⑲ 10V 5ms/div



㉔ 1V 1ms/div



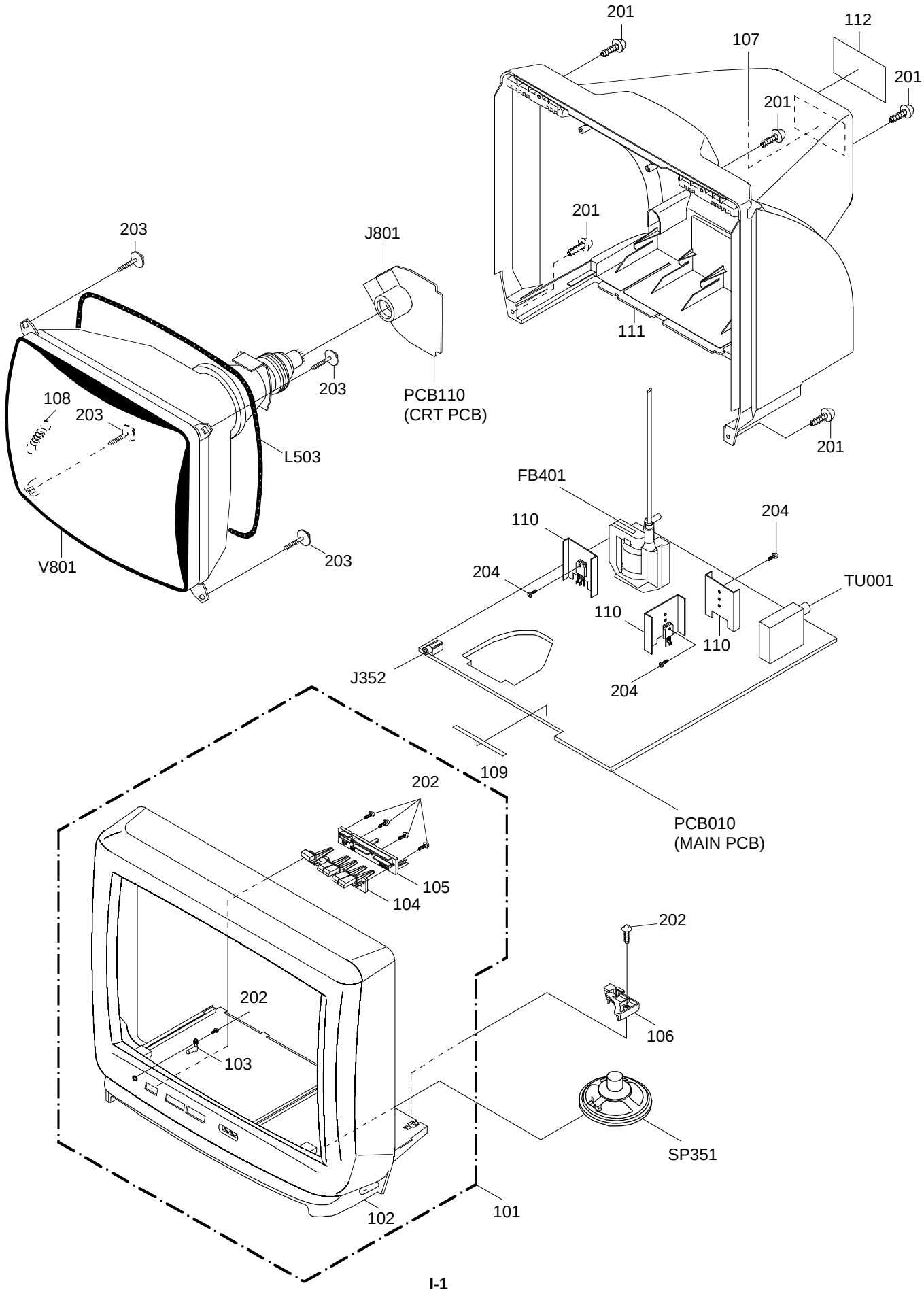
⑳ 50V 20µs/div



㉕ 500mV 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	A3J812A720	CABINET,FRONT ASS'Y		
102	701WPJB186	CABINET,FRONT		
103	713WPAA020	GUIDE,REMOCON		
104	735WPAA122	BUTTON,FRAME		
105	735WPAA121	BUTTON,HOLDER		
106	735WPA0396	SPEAKER,HOLDER		
107	726000A016	SHEET,CRT SERVICEMAN		
108	741WUA0019	SPRING,EARTH		
109	800WQ00044	FELT SHEET		5x50xT0.5
110	---	HEAT SINK		
111	702WPAA134	CABINET,BACK		
112	722A08A072	SHEET,RATING		
201	8117540A64	SCREW,TAPPING (B0)	TRUSS	4x16
202	8110630A04	SCREW,TAP TITE (P)	BRAZIER	3x10
203	8121J50B54	SCREW,TAPPING (B0)	GW20	5x28
204	8109I30A04	SCREW,TAP TITE(B)	WH7	3x10
---	JB5U0200	POLY & BAG		
---	J3J81201	INSTRUCTION BOOK		
---	J4C80417	REGISTRATION CARD		
---	793WCDA919	GIFT BOX		
---	791WHA0023	LAMIFILM BAG		
---	792WHAA018	PACKAGE,BOTTOM		
---	792WHAA019	PACKAGE,TOP		

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
RESISTORS			
⚠ R401	R4X5T4104F	R, METAL	100K OHM 1/4W
⚠ R405	R4X5T4183F	R, METAL	18K OHM 1/4W
⚠ R406	R903N8102J	RC	1K OHM 1/8W
⚠ R407	R002T22R2J	RC	2.2 OHM 1/2W
⚠ R408	R4X5T6153F	R, METAL	15K OHM 1/6W
⚠ R409	R4X5T6123F	R, METAL	12K OHM 1/6W
R423	R001T6471J	RC	470 OHM 1/6W
⚠ R426	R002T4272J	RC	2.7K OHM 1/4W
⚠ R429	R655812R7J	R, FUSE	2.7 OHM 1W
⚠ R500	R0G3K2275K	RC	2.7M OHM 1/2W
⚠ R501	R5X2CD5R6J	R, CEMENT	5.6 OHM 5W
⚠ R504	R3X28B330J	R, METAL OXIDE	33 OHM 3W
⚠ R505	R3X181221J	R, METAL OXIDE	220 OHM 1W
R509	R903N8222J	RC	2.2K OHM 1/8W
R515	R002T2683J	RC	68K OHM 1/2W
⚠ R517	R3X1811R2J	R, METAL	1.2 OHM 1W
⚠ R518	R4X5T6222F	R, METAL	2.2K OHM 1/6W
⚠ R519	R903N8122J	RC	1.2K OHM 1/8W
⚠ R542	R3X181R68J	R, METAL OXIDE	0.68 OHM 1W
⚠ R629	R3X28B330J	R, METAL OXIDE	33 OHM 3W
⚠ R641	R002T4223J	RC	22K OHM 1/4W
R647	R001T6202J	RC	2K OHM 1/6W
⚠ R803	R3X181153J	R, METAL OXIDE	15K OHM 1W
⚠ R805	R3X181153J	R, METAL OXIDE	15K OHM 1W
⚠ R807	R3X181153J	R, METAL OXIDE	15K OHM 1W
CAPACITORS			
C402	P3N1F2123J	CPP	0.012 UF 200V
⚠ C403	E02LT4471M	CE	470 UF 35V
⚠ C414	E02LT4101M	CE	100 UF 35V
⚠ C418	E02LT3471M	CE	470 UF 25V
⚠ C434	E02LT8220M	CE	22 UF 100V
C437	P4J7F3474J	CMPP	0.47 UF 250V PMS
C442	C0JLYR7H2K	CC	220 PF 2KV YR
⚠ C443	P4N8FJ472H	CMPP	0.0047UF 1.25KV
⚠ C446	E02LT5220M	CE	22 UF 50V
⚠ C448	E5EZTC220M	CE	22 UF 200V
C503	C0JTB0513K	CC	0.001 UF 500V B
⚠ C505	P2122B104M	CMP	0.1 UF 250V ECQUL
⚠ C506	CB3LF0M14M	CC	0.01 UF 250V
⚠ C508	CB3LF0M14M	CC	0.01 UF 250V
⚠ C511	E02LU5010M	CE	1 UF 50V
C514	C0JLYR7U2K	CC	680 PF 2KV YR
⚠ C515	E02LT2471M	CE	470 UF 16V
C517	C0JLYR7Q2K	CC	470 PF 2KV YR
⚠ C519	E02LT2471M	CE	470 UF 16V
⚠ C521	E5EZFB101M	CE	100 UF 160V
⚠ C526	E02LFC221M	CE	220 UF 200V
C602	CQGTF0414Z	CC	0.01 UF 50V F
C819	C0JBB0713K	CC	0.001 UF 2KV B
DIODES			
D001	D97U03001B	DIODE, ZENER	MTZJ30B T-77
⚠ D401	D97U02701B	DIODE, ZENER	MTZJ27B T-77
⚠ D402	D97U01101B	DIODE, ZENER	MTZJ11B T-77
D403	D2WT011E10	DIODE, SILICON	11E1-EIC
D404	D97U06R21B	DIODE, ZENER	MTZJ6.2B T-77
⚠ D405	D2WTAU02A0	DIODE, SILICON	AU02A-EIC
⚠ D406	D1VT001330	DIODE, SILICON	1SS133T-77
D408	D2WT011E10	DIODE, SILICON	11E1-EIC
D410	D2WTAU02A0	DIODE, SILICON	AU02A-EIC
⚠ D411	D2WTAU02A0	DIODE, SILICON	AU02A-EIC
⚠ D501	D2WXN40050	DIODE, SILICON	1N4005-EIC
⚠ D502	D2WXN40050	DIODE, SILICON	1N4005-EIC
⚠ D503	D2WXN40050	DIODE, SILICON	1N4005-EIC
⚠ D504	D2WXN40050	DIODE, SILICON	1N4005-EIC
⚠ D505	D2WXB290S0	DIODE, SILICON	SB290S
D506	D97U01501B	DIODE, ZENER	MTZJ15B T-77
D507	D97U01501B	DIODE, ZENER	MTZJ15B T-77
D508	D1VT001330	DIODE, SILICON	1SS133T-77
⚠ D509	D97U01801B	DIODE, ZENER	MTZJ18B T-77
⚠ D510	D2WXRU2AM0	DIODE, SILICON	RU2AM-EIC
D512	D1VT001330	DIODE, SILICON	1SS133T-77
⚠ D513	D2WXB290S0	DIODE, SILICON	SB290S
D514	D1VT001330	DIODE, SILICON	1SS133T-77
D518	D1VT001330	DIODE, SILICON	1SS133T-77
D519	D1VT001330	DIODE, SILICON	1SS133T-77
D528	D97U05R61B	DIODE, ZENER	MTZJ5.6B T-77
D601	D1VT001330	DIODE, SILICON	1SS133T-77

REF. NO.	PART NO.	DESCRIPTION		
DIODES				
D602	D97U08R21B	DIODE, ZENER	MTZJ8.2B T-77	
D605	D2WT011E10	DIODE, SILICON	11E1-EIC	
D610	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
D611	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
D612	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
ICS				
IC101	I56F07045B	IC	OEC7045B	
IC199	A3J802A015	IC	S-24C02BDP-1A	
⚠ IC351	I01DP75110	IC	AN7511	
⚠ IC401	I01TD55220	IC	AN5522	
IC601	I06FC61206	IC	M61206FP	
TRANSISTORS				
⚠ Q401	TD30026270	TRANSISTOR, SILICON	2SD2627LS-CBC11	
⚠ Q402	TCKT1473AQ	TRANSISTOR, SILICON	2SC1473A-Q-TA	
⚠ Q501	T25FK26620	TRANSISTOR, FIELD EFFECT	2SK2662	
⚠ Q502	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
⚠ Q504	0002E00610	PHOTO COUPLER	LTV-817M-V	
Q507	TCATC31980	TRANSISTOR, SILICON	KTC3198-AT(Y,GR)	
Q603	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q604	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q605	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q606	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
⚠ Q801	TCKT1473A0	TRANSISTOR, SILICON	2SC1473A-TA-(RQ)	
⚠ Q802	TCKT1473A0	TRANSISTOR, SILICON	2SC1473A-TA-(RQ)	
⚠ Q803	TCKT1473A0	TRANSISTOR, SILICON	2SC1473A-TA-(RQ)	
COILS &TRANSFORMERS				
L101	021LA63R3K	COIL	3.3 UH	
L402	02186G180M	COIL	18 UH	
⚠ L501	029T00A7M1	COIL, LINE FILTER	1R5A102F20	
⚠ L503	028R140030	COIL, DEGAUSS	8R140030	
L601	0216731R2K	COIL	1.2 UH	
L605	02167F1R0K	COIL	1 UH	
L606	021LA62R2K	COIL	2.2 UH	
L607	021LA6150K	COIL	15 UH	
L801	02167F101J	COIL	100 UH	
T401	03305Y0018	TRANS, HORIZONTAL DRIVE	305Y001	
⚠ T502	0481290264	TRANSFORMER, SWITCHING	81290264	
JACKS				
⚠ J352	0602121012	JACK, RCA 3.5	HSJ1403-01-010	
J702	060Q401077	RCA, JACK	AV1-09D-3	
J703	060Q401076	RCA, JACK	AV1-09D-4	
⚠ J801	066X120014	SOCKET, CRT	HPS3200-10501	
SWITCHES				
SW101	0504201T31	SWITCH, TACT	SKHVBED010	or
	0504101T34	SWITCH, TACT	EVQ21505R	
SW102	0504201T31	SWITCH, TACT	SKHVBED010	or
	0504101T34	SWITCH, TACT	EVQ21505R	
SW103	0504201T31	SWITCH, TACT	SKHVBED010	or
	0504101T34	SWITCH, TACT	EVQ21505R	
SW104	0504201T31	SWITCH, TACT	SKHVBED010	or
	0504101T34	SWITCH, TACT	EVQ21505R	
SW105	0504201T31	SWITCH, TACT	SKHVBED010	or
	0504101T34	SWITCH, TACT	EVQ21505R	
P.C.BOARD ASSEMBLIES				
PCB010	A3J812A01A	PCB ASS'Y	TMX494A	
PCB110	A3J812A11A	PCB ASS'Y	TCX352A	
MISCELLANEOUS				
⚠ ANT001	125C108030	ANTENNA, ROD	HPAS-2S780	
CD351	06CH122301	CORD, CONNECTOR	CH122301	
⚠ CD501	120R414903	CORD, AC	0R414903	
CF601	1022T45R72	FILTER, SAW	SAF45MFY220ZR	
CF603	1011T4R504	FILTER, CERAMIC	EFCT4R5YS5A	
CF604	1011T4R517	FILTER, CERAMIC	EFCT4R5MW5	
⚠ CP401	069X450029	CONNECTOR PCB SIDE	B05B-DVS	
⚠ CP502	069W420029	CONNECTOR PCB SIDE	TV-50P-02-A1	or
	069S420110	CONNECTOR PCB SIDE	A1561WV2-2P	
CP601	0694260139	CONNECTOR PCB SIDE	173979-6	
CP801	069W010030	CONNECTOR PCB SIDE	TBS-X01X-A1	
CP802A	067R010019	WIRE HOLDER	51048-1000	or
	067N010039	WIRE HOLDER	9253_010_000_000	or
	067U010049	WIRE HOLDER	B2013H02-10P	
CP802B	067R010019	WIRE HOLDER	51048-1000	or
	067N010039	WIRE HOLDER	9253_010_000_000	or
	067U010049	WIRE HOLDER	B2013H02-10P	
⚠ F501	081PC04004	FUSE	51MS040LCC	
⚠ FB401	043214029F	TRANSFORMER, FLYBACK	3214029F	
FH501	06710T0006	HOLDER, FUSE	EYF-52BC	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
	FH502	06710T0006	HOLDER, FUSE	EYF-52BC
	OS101	077Q014003	REMOTE RECEIVER	PIC-28143SY-2
⚠	SP351	070Y132018	SPEAKER	S08F21
⚠	TH501	DF5EL3R0A0	DEGAUSS, ELEMENT	ZPB45BL3R0A
	TM101	076N0DW010	TRANSMITTER	RC-DW010
⚠	TU001	0145W00052	TUNER, VHF-UHF	NJH3022U268
⚠	V801	098Q1404B2	CRT W/DY	A34AGT13X98(L)
	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.	M3J8-12A
O/R NO.	K123003

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		Ohers
			Tuning System		F-Synth
			Input Impedance		VHF/UHF 75 ohm
			CH Coverage		2 - 69, 4A, A-5 - A-I, 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
G-4	Regulation		Safety		UL
			Radiation		FCC
			X-Radiation		DHHS
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			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
				Sound		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			No
			Video			Yes
			Color Stream			No

GENERAL SPECIFICATIONS

			Channel(TV/Cable)	Yes
			CH Label	No
			Sleep Timer	Yes
			Sound Mute	Yes
			V-chip Rating	Yes
G-8	OSD Language			English French Spanish
			OSD Language Setting	English
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		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

GENERAL SPECIFICATIONS

		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
				w/Guarantee Card	Yes
		Remote Control Unit			Yes
		Rod Antenna			Yes
				Poles	1 Pole
				Terminal	F type
		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			Yes
		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	RCAx1
				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 361 x 320
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)	408 x 440 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 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.

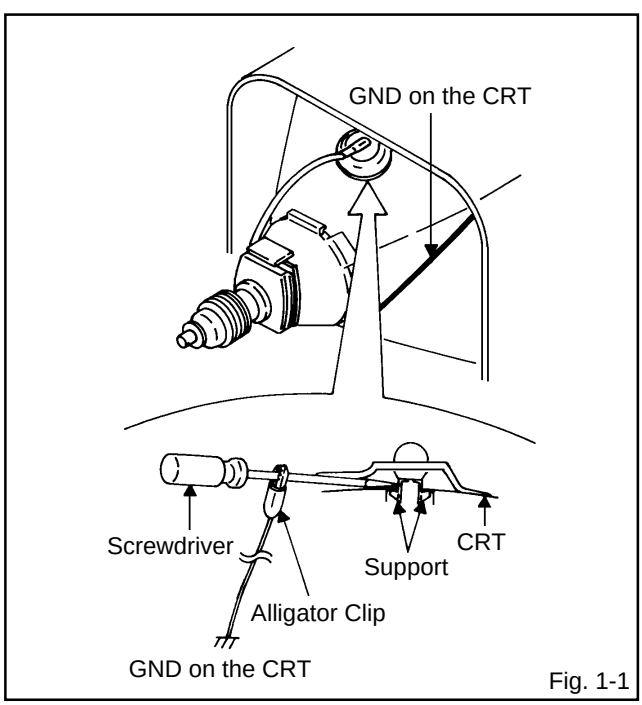


Fig. 1-1

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.)**

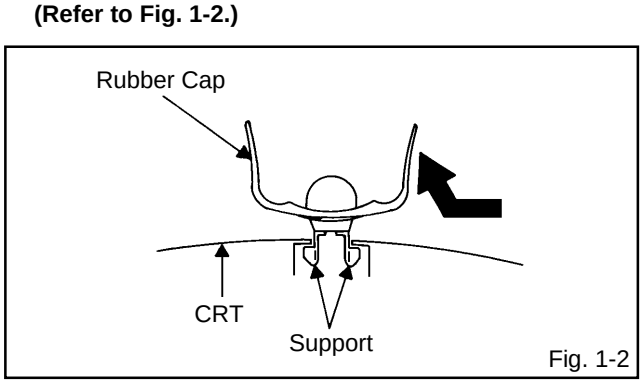


Fig. 1-2

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.)**

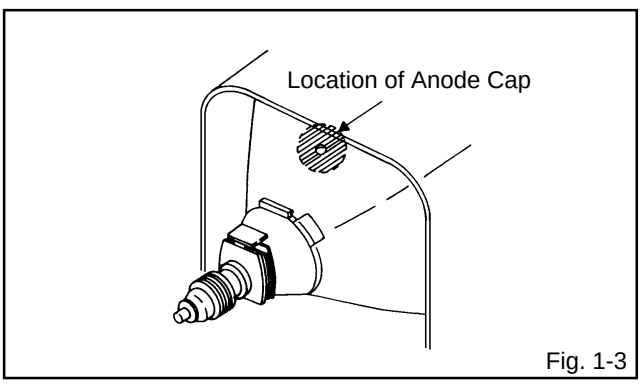


Fig. 1-3

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.)**

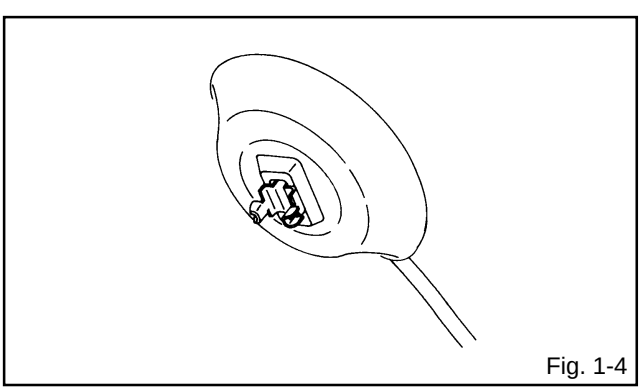


Fig. 1-4

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

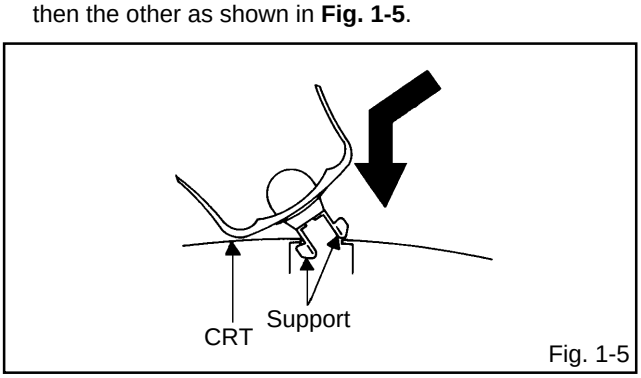


Fig. 1-5

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

SERVICE MODE LIST

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

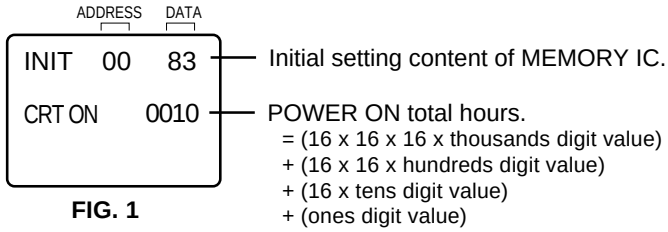


FIG. 1

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.

ADDRESS	INI 00	INI 01	INI 02	INI 03	INI 04	INI 05	INI 06	INI 07	INI 08	INI 09	INI 0A
DATA	88	09	A0	01	06	B3	24	19	21	20	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**.

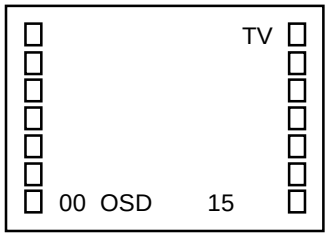


Fig. 1-1

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 DELAY	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. Place the set with Aging Test for more than 15 minutes.
2. Receive an 64dB monoscope pattern.
3. Connect the digital voltmeter to **R606**.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(02)** on the remote control to select "RF AGC DELAY".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is 2.3V.

2-2: 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, BRIGHTNESS=100, CONTRAST=64.
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 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.

2-5: SUB TINT/SUB COLOR

1. Receive the color bar pattern. (RF Input)
2. Connect the synchro scope to **TP023**.
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 waveform becomes as shown in **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 100% 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

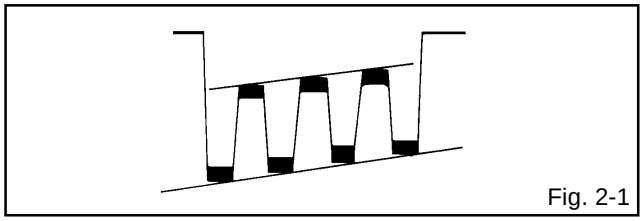


Fig. 2-1

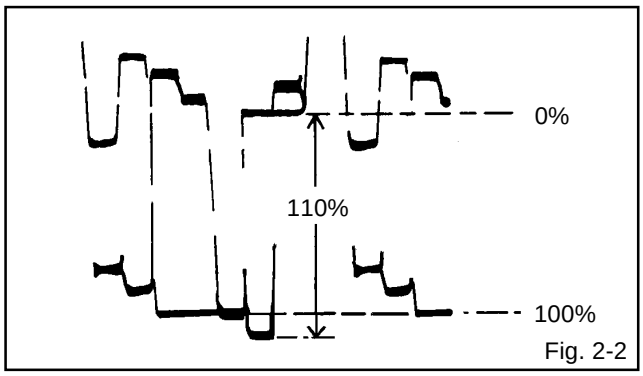


Fig. 2-2

2-6: HORIZONTAL PHASE

1. Receive the center cross signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(05)** on the remote control to select "H.PHASE".
3. 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 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 rectangle on the center of the screen becomes square.
4. 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 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.SHIFT".
3. 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)**

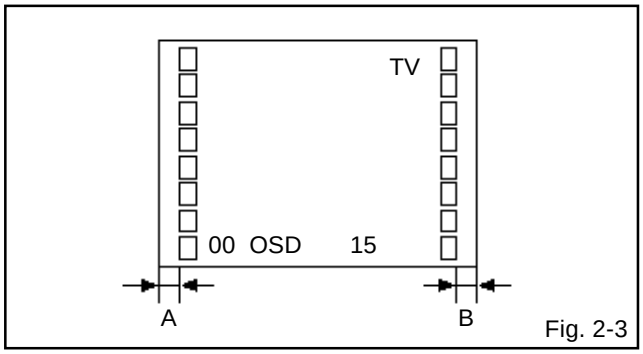


Fig. 2-3

2-10: VIF VCO

1. Place the set with Aging Test for more than 10 minutes.
2. Receive an 80dB monoscope pattern.
3. Connect the digital voltmeter between the **pin 5 of CP601** and the **GND**.
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: SUB BRIGHTNESS NORMAL

1. Place the set with Aging Test for more than 15 minutes.
2. Receive an 70 ~ 80dB monoscope pattern. (RF Input)
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(13)** on the remote control to select "BRIGHTNESS".
4. Press the VOL. UP/DOWN button on the remote control until the GLAY SCALE begin to shine.
5. Place the set with Aging Test for more than 15 minutes.
6. Receive an 70 ~ 80dB monoscope pattern. (Audio Video)
7. Press the TV/AV button on the remote control to set to the AV mode. Then perform the above adjustments 3, 4.

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

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

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

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

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

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

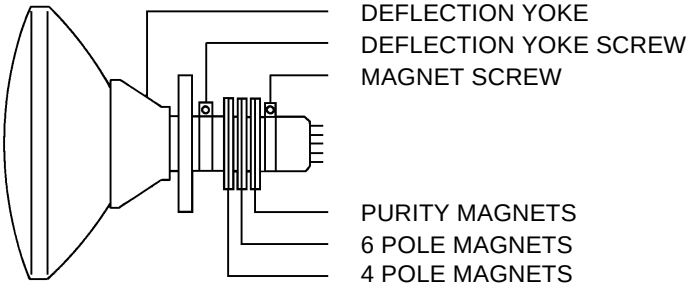


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

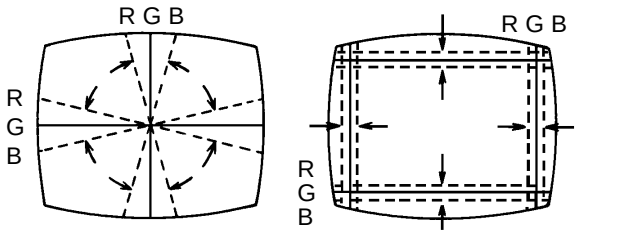
1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

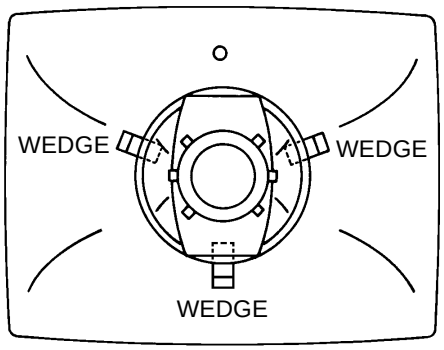
Adjust after performing adjustments in section 3-3.

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



UPWARD/DOWNWARD SLANT RIGHT/LEFT SLANT

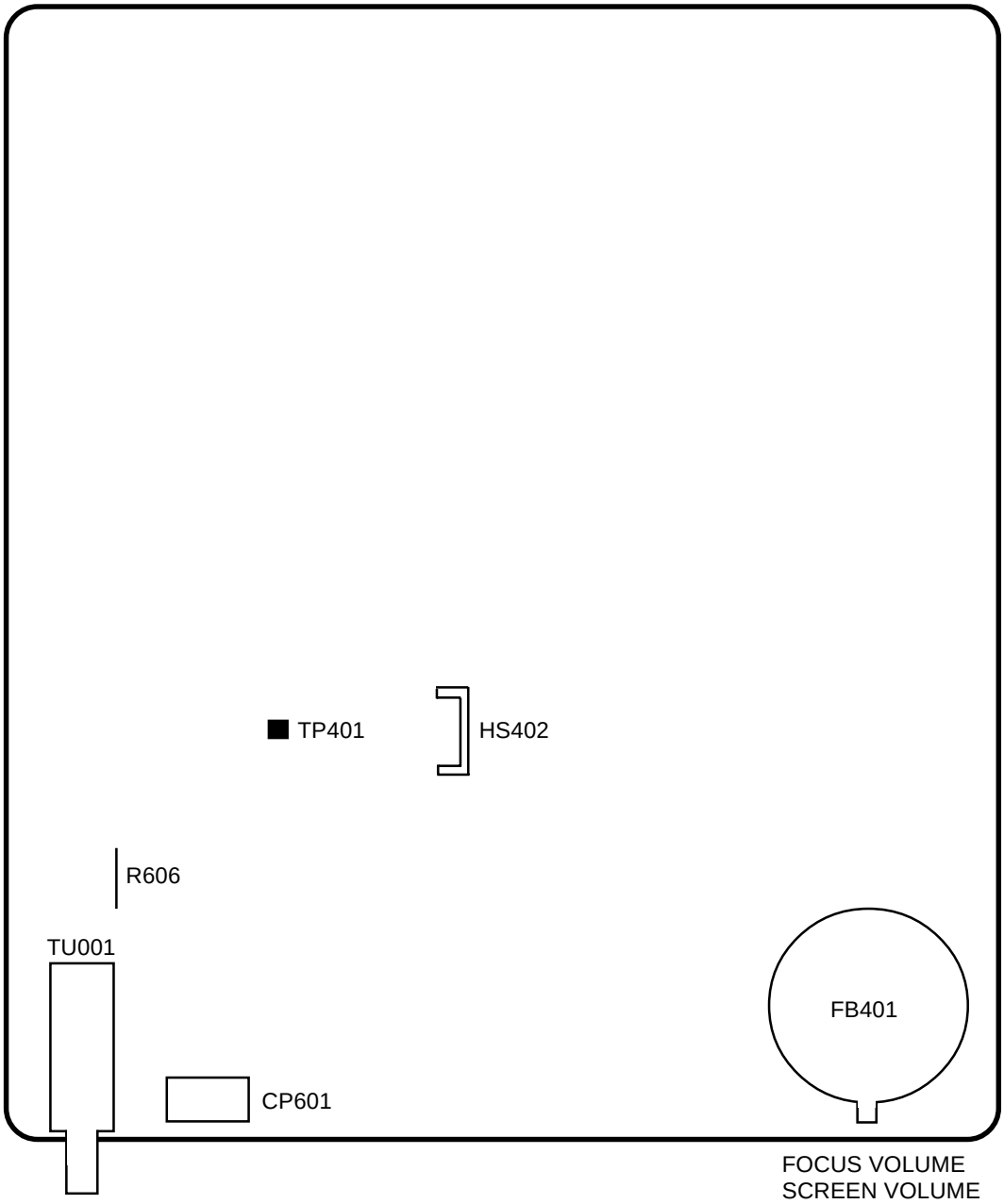
Fig. 3-2-a



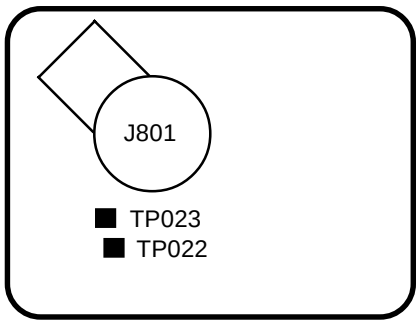
WEDGE POSITION

Fig. 3-2-b

MAJOR COMPONENTS LOCATION GUIDE

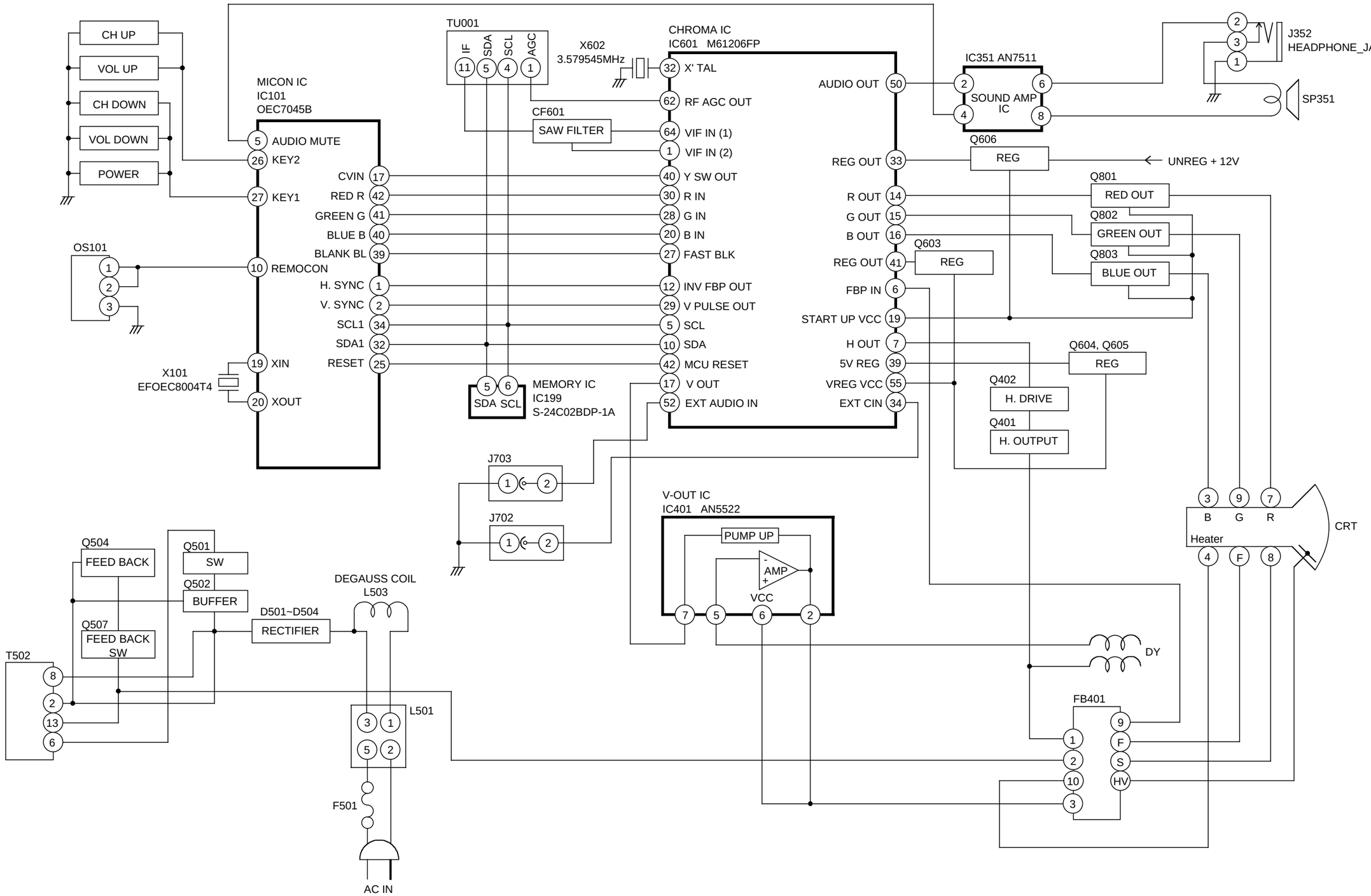


MAIN PCB

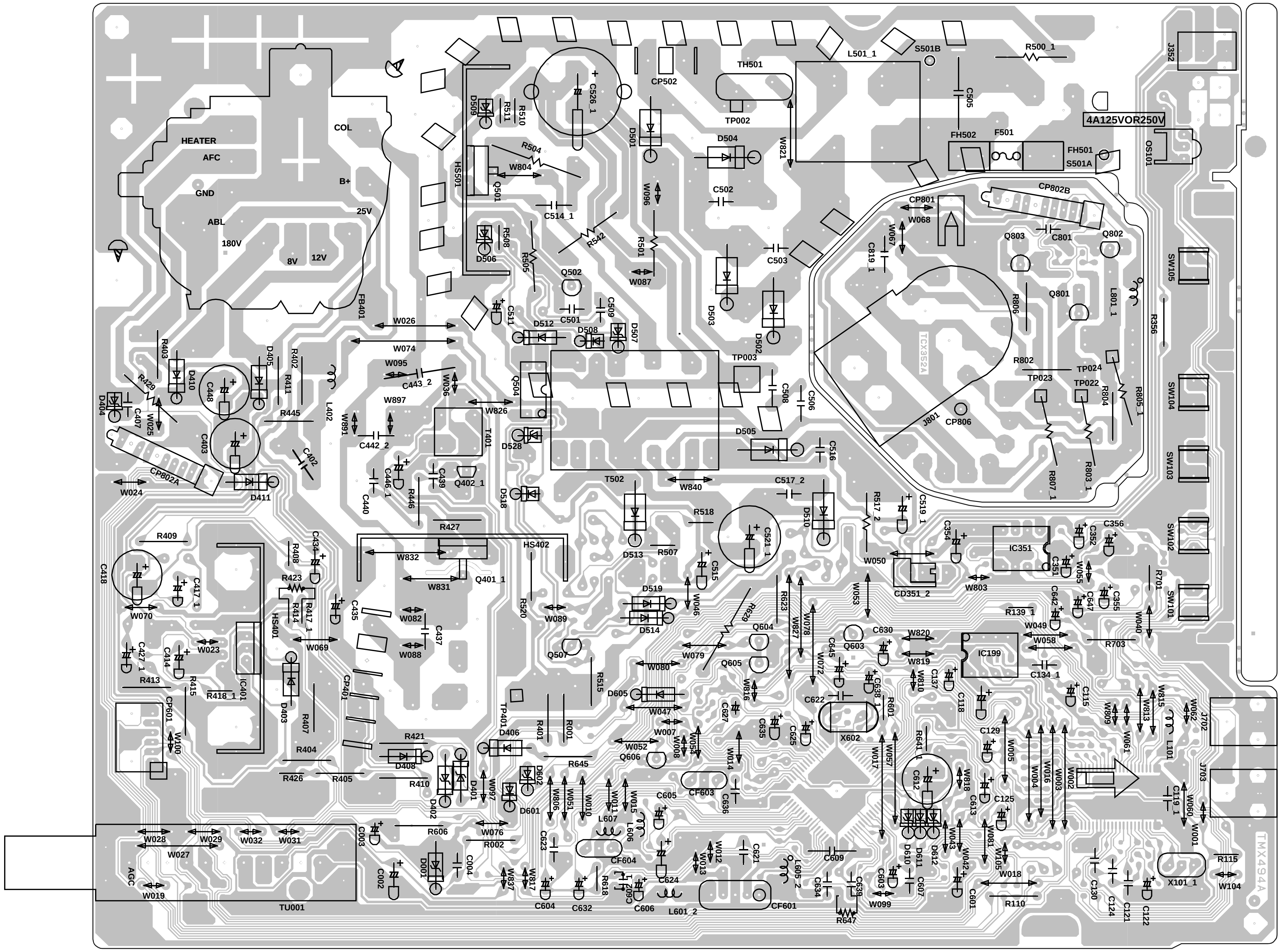


CRT PCB

BLOCK DIAGRAM



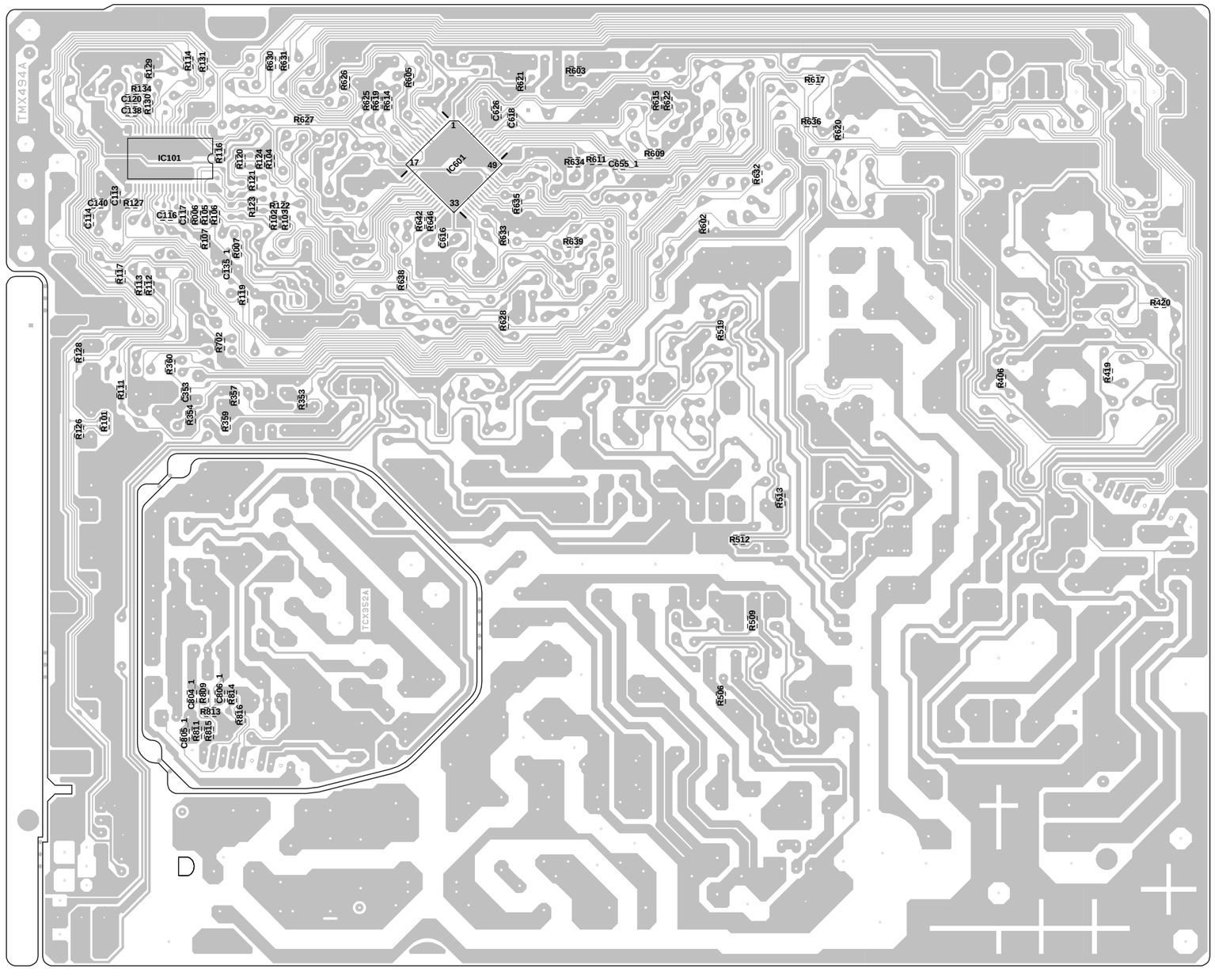
PRINTED CIRCUIT BOARDS
MAIN/CRT (INSERTED PARTS)
SOLDER SIDE



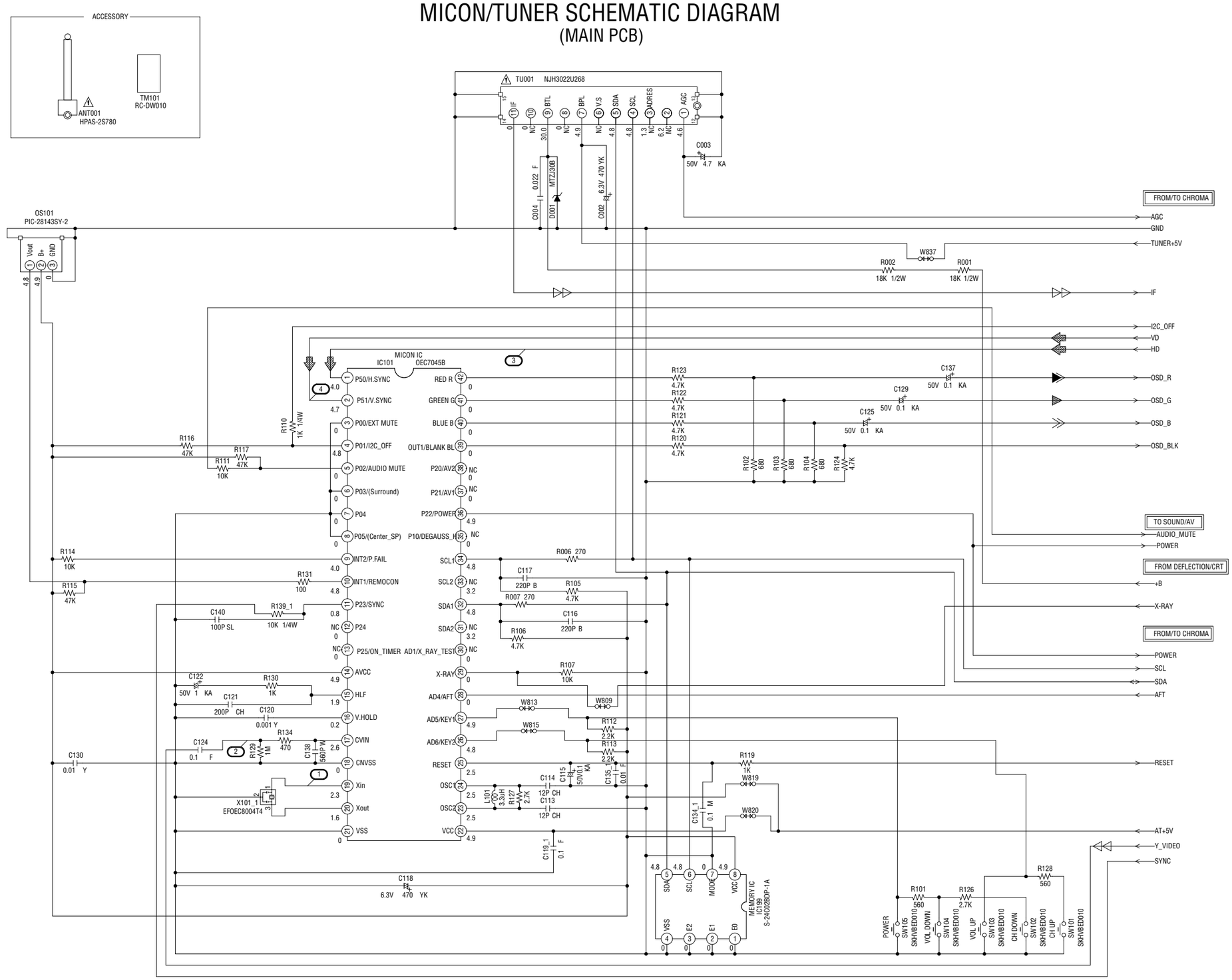
F-1

F-2

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



MICON/TUNER SCHEMATIC DIAGRAM
(MAIN PCB)



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

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

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

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

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

CHROMA SCHEMATIC DIAGRAM
(MAIN PCB)

FROM TV POWER
UNREG+12V
REG Q603 KTC3203_YT
REG Q604 KTC3203_YT
REG Q605 KTC3203_YT
REG Q606 KTC3203_YT
R623 120 1/4W
R629 33 3W
CF604 EFCT4R5MW5
L607 1.5uH
R622 120
CF603 EFCT4R5YS5A
R615 470
L606 2.2uH
C636 0.01 Y
R636 33K
R635 100
C635 16V 47 YK
C630 16V 47 YK
W816
C627 50V 1 NA
C625 2.2 50V1 KA
C622 0.015 M
R633 8.2K
R639 100
R628 100
C616 15P CH
X602 3.57954MHz
FROM SOUND/AV
VIDEO_IN
C647 50V 1 KA
R638 22K
R646 68K
C638_1 50V 4.7 KA
R642 22K
D605 11E1-EIC
FROM/TO SOUND/AV
AUDIO_OUT
AUDIO_IN
GND
W806
R611 10K
R634 10K
C642 50V 1 KA
C604 50V 1 KA
W827
C655_1 0.0068 Y
C623 0.0033 M
C632 50V 2.2 KA
R618 10M 1/4W
R632 220
D602 MTZ6.2B
D601 1SS133
C624 16V 47 YK
C605 470 50V 0.47 KA
R609 470
C618 22P SL
C621 0.01 Y
W817
FROM/TO MICON/TUNER
Y_VIDEO
AT+5V
SYNC
TUNER+5V
RESET
AFT
AGC
IF
C626 0.001 Y
C602_1 0.01 F
R606 10K
C606 50V 0.22 KA
SAW FILTER CF601 SAF45MFY220ZR
OUTOUT G IN IN
L601_2 1.2uH
L605_2 1uH 0305
R621 2.7K
C634 0.01 Y
C609 0.01 Y
C639 0.01 Y
R647 2K
R626 22K
R601 2.2K
R602 470
R603 1.5K
C601 16.3V 1000 YK
C603 50V 1 KA
C607 0.01 Y
D610 MTZJ12B
D611 MTZJ12B
D612 MTZJ12B
R605 47K
R611 2.2K
R613 2.2K
R625 2.2K
R627 100
R630 100
R631 100
R617 1K
R620 12
C612 10V 1000 YK
W818
R641_1 22K 1/4W
C613 50V1 YK
C645 16V 47 YK
W810
CHROMA IC IC601 M61206FP
46 SW REG CONT
47 LIMITER IN
48 IF AGC
49 QIF OUT
34 EXT C in
33 8.7V REG OUT
32 X'TAL
64 VIF IN (1)
1 VIF IN (2)
17 V OUT
16 B OUT
Hi Vcc
INTELLIGENT MON
MCU RESET
5.7V REG OUT(FOR CPU)
Y SW OUT
5v REG
VIDEO/CHROMA GND
TV/Y IN
CHROMA APC FILTER
ACL/ABCL
R IN
V PULSE OUT
G IN
FAST BLK
SPOT KILLER
fsc OUT
VIDEO CHROMA Vcc
V RAMP CAP
V RAMP FEEDBACK
B IN
STRAT UP Vcc
V OUT
AUDIO OUT
AUDIO BYPASS
EXT AUDIO IN
FM DIRECT OUT
VIF VCO F/B
VREG Vcc
VIF APC FILTER
VIF VIDEO OUT
VIF GND
AFT OUT
QIF IN
RF AGC OUT
RF AGC FILTER
VIF Vcc
H VCO F/B
SCL
FBP IN
H OUT
DEF
SDA
AFC FILTER
INV FBP OUT
POWER ON CONT
R OUT
G OUT
FROM/TO DEFLECTION/CRT
V_OUT
ABCL
V_FEEDBACK
GND
H_OUT
H_SYNC
B.OUT
G.OUT
R.OUT
CLAMP
TEST POINT
CP601 173979-6

B.OUT	6
INT.MONI	5
IIC_OFF	4
SDA	3
SCL	2
GND	1

HD
POWER
OSD_B
OSD_BLK
OSD_G
VD
OSD_R
I2C_OFF
SDA
SCL

DEFLECTION SIGNAL
AUDIO SIGNAL
LUMINANCE SIGNAL
TUNER VIDEO SIGNAL
R.SIGNAL
G.SIGNAL
B.SIGNAL

PCB010
TMX494

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 。

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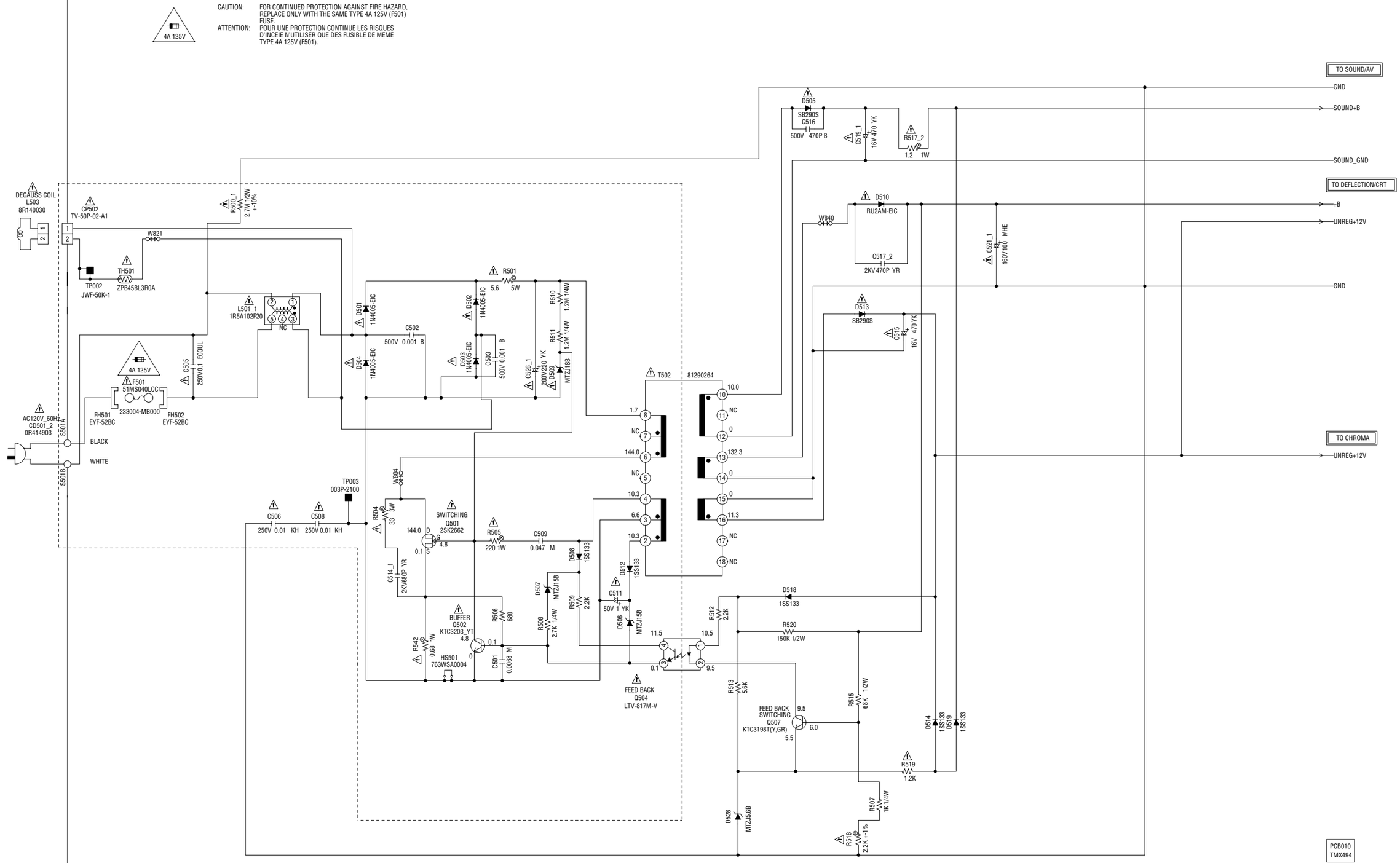
TV POWER SCHEMATIC DIAGRAM
(MAIN PCB)



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DEFLECTION/CRT SCHEMATIC DIAGRAM (MAIN PCB)

FROM CHROMA
CLAMP
G.OUT
R.OUT
B.OUT

V-OUT IC IC401 AN5522
THERMAL PROTECTION
PUMP UP
1 3.5 2 25.0 3 2.0 4 0 5 12.0 6 25.0 7 3.5
C414 350V100 YK

CP802A 51048-1000
CD802 2EDA3001
CP802B 51048-1000
GND 1
CLAMP 2
G.OUT 3
R.OUT 4
B.OUT 5
NC 6
HEATER 7
GND 8
NC 9
180V 10

CP801 TBS-X01X-A1
CD801_1

RED OUT Q801 2SC1473A 3.2
GREEN OUT Q802 2SC1473A 3.2
BLUE OUT Q803 2SC1473A 3.2
100.6 98.4 95.4
2.7
270P B
560
C804_1 R809
C805_1 R811
C806_1 R814
R813 4.7K
R815 4.7K
R816 4.7K

V801 A34AGT13X98(L)
R G B
L801_1 100uH 0305

14 R414 100 1/4W
R423 470
18 D403 11E1-EIC
19
R418_1 22K 1/4W
R417_1 10K 1/4W
R420
R419 470 3.3K
C417_1 50V 10 YK
C418 25V 470 YK
R407 2.2 1/2W
R410 330 1/2W
R415 820 1/2W
R413 4.7K 1/2W
C427_1 50V 10 YK
HS401 763WSA0004
TO DY
C434 100V 22 YK
D411 AU02A-E1G
R429 2.7 1W
CP401 B05B-DVS

20 TP022
21 TP024
22 TP023
R803_1 R802 15K 1W 2.7K 1/4W
R805_1 R804 15K 1W 2.7K 1/4W
R807_1 R806 15K 1W 2.7K 1/4W

R426 2.7K 1/4W
R406 1K
R405 18K 1/4W +-1%
R408 15K +-1%
R401 100K 1/4W +-1%
D401 MTZJ27B
D402 MTZJ11B
R409 12K +-1%

TO MICON/TUNER
X-RAY
+B

FROM/TO CHROMA
GND
V_FEEDBACK
V_OUT
ABCL
H_OUT
H_SYNG

C439 500V 22P SL
15
T401 305Y001
16
17 H.OUTPUT Q401_1 2SD2627LS-CBC11
H.DRIVE Q402_1 2SC1473A-QA
27.0 0.3 0
R446 4.7K 1/2W
C440 500V 0.0022 B
C446_1 50V 22 YK
R427 100 1/4W
W832
HS402 763WSA0004
C443_2 1.25KV 0.0047 MPP
W831
W891
C437 250V0.47 PMS
C442_2 2KV 220P YR
W897

FB401 3214029F
130.0 COL
132.5 VIDEO
132.5 B+
48.0 AFC
7.0 HEATER
0 GND
NC E12
25.0 E25
H1
F
S
GND 0
ABL 4.3
GND 0
E8 NC

FOCUS
SCREEN
CP806
C819_1 2KV 0.001 B
C801 330P B
6.4 96.4 101.6 99.6
J801 HPS3200-010501

FROM TV POWER
GND
TP401
+B
L402 18uH
C402 200V0.012 PP
R402 6.8 1/2W
R403 22K 1/4W

D404 MTZJ6.2B
C407 56P SL
UNREG+12V
R645 47 1/2W
D406 1SS133
TO MICON/TUNER
+B

D405 AU02A-E1C
D410 AU02A-E1C
R411 10K
R404 100 1/2W
R445 180K 1/4W
C403 35V 470 YK
C448 200V 22 MHE
C435 100V0.1 MHE
R421 1W 220K 1/4W
D408 11E1-E1C

PCB010 TMX494
PCB110 TCX352

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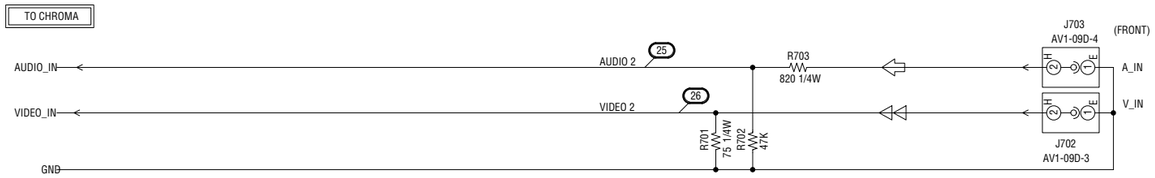
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

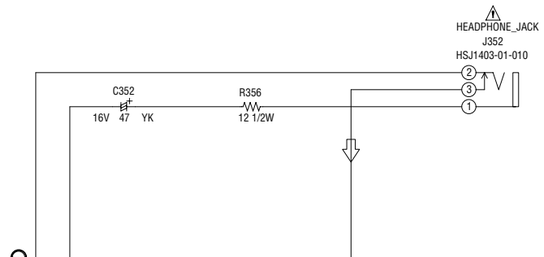
NOTE:THE RESISTOR MARKED F IS FUSE RESISTOR. THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE.

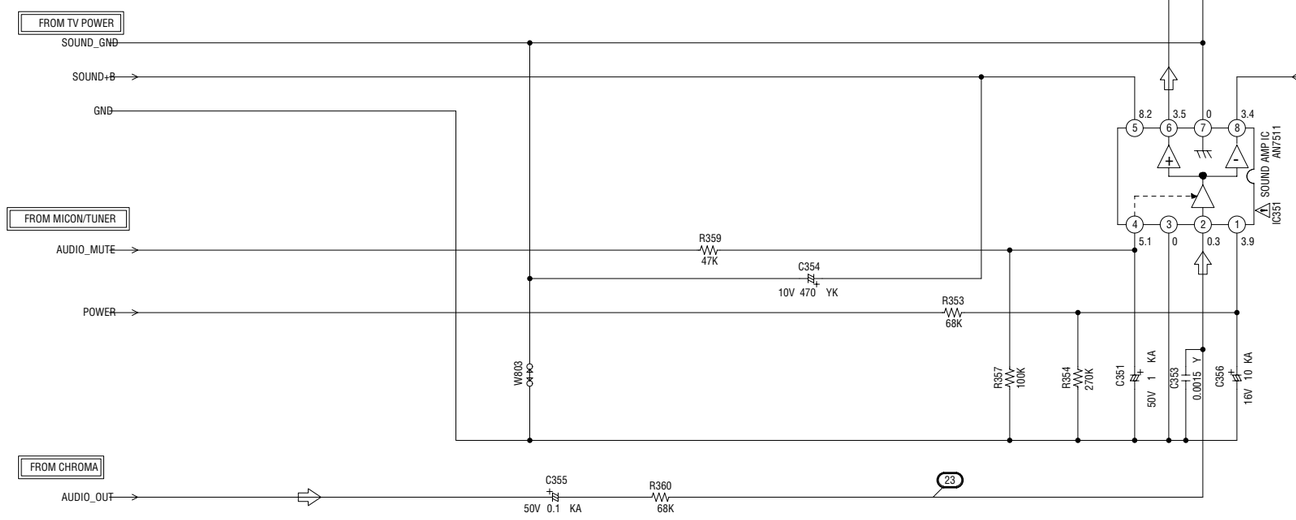
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

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

SOUND/AV SCHEMATIC DIAGRAM
(MAIN PCB)







PCB010
TMX494

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

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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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