

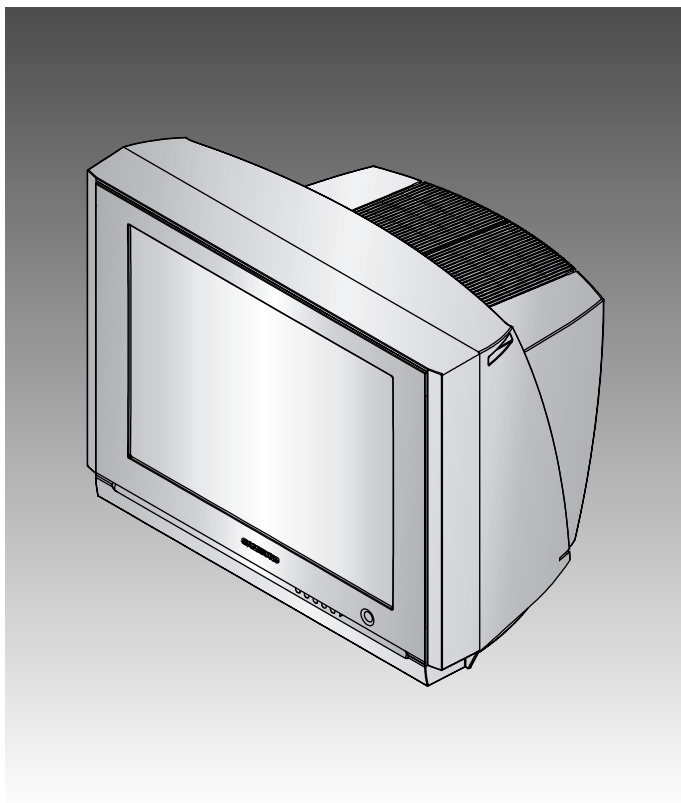
**SAMSUNG**

# COLOR TELEVISION RECEIVER

Chassis : K57A  
Model : TXM2792FX/XAA  
TXM2792FX/XAC

# **SERVICE** *Manual*

## COLOR TELEVISION RECEIVER



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## 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

### 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

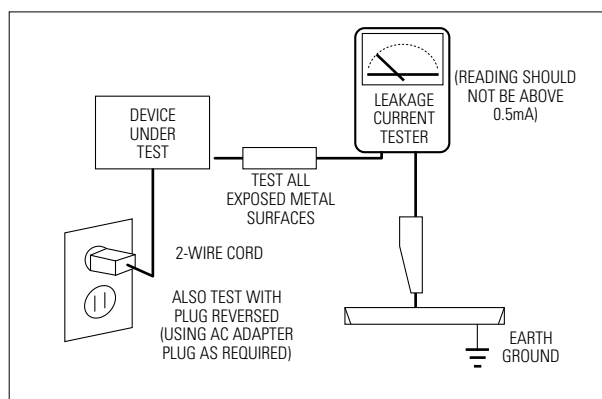




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or ().  
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as “anti-static”; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

#### CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

## 2. Specifications and IC Data

### 2-1 Specifications

Television System:

MODEL	SYSTEM
TXM2792FX	NTSC ONLY

Channels:

System Band	NTSC
VHF	2 - 13
UHF	14 - 69
CABLE	1 - 125

Intermediate Frequencies (MHz) :

SYSTEM	NTSC
IF Carrier Frequency	
Picture IF Carrier	45.75
Sound IF Carrier	41.25
Color Sub Carrier	42.18

Picture Tube:

29 Inch A68QCP891X100	29Inch Flat, +380MG
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Power Requirements:

AC 120V, 60Hz

Antenna Input Impedance:

VHF, UHF : Telescopic dipole antenna (75 ohm unbalanced type )

Speaker Impedance

8 ohm, 15W+15W (Dual Type)

## 2-2 IC Line Up

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Table 2-1 IC Line-Up			
Loc. No	Specification	Description	Remark
IC201S	SPM-464A	TDA9592 PS/NI, SPM-464A,64P	Philips
IC301	LA7845	VERTICAL OUTPUT	Sanyo
IC501	TDA6108QJF	RGB DRIVE AMP	Philips
IC602	TDA7297	SOUND-AMP (15W x 2CH)	Philips
IC801S	KA5Q1265R	POWER IC (STR)	FIAIR CHILD
IC802	KA7632	CUSTOM REGULATOR (5V, 8V, 3.3V)	FIAIR CHILD
IC202	M24C08	EEPROM	
PC801S PC802S	TCET1108 / LTV817B	PHOTO COUPLER	
IC101	LA7510	IF DETECTOR-IC	TEMIC
IC601	MSP-3425G-B8	Sound Processor	Micronas
ICP01	VIPER12AD1P	PWM CONTROECER-IC	
ICW01	NJM2235D	VIDEO Swiching-IC	
ICG01	4558	OP AMP-IC	



## 2-3 Semiconductor Base Diagrams

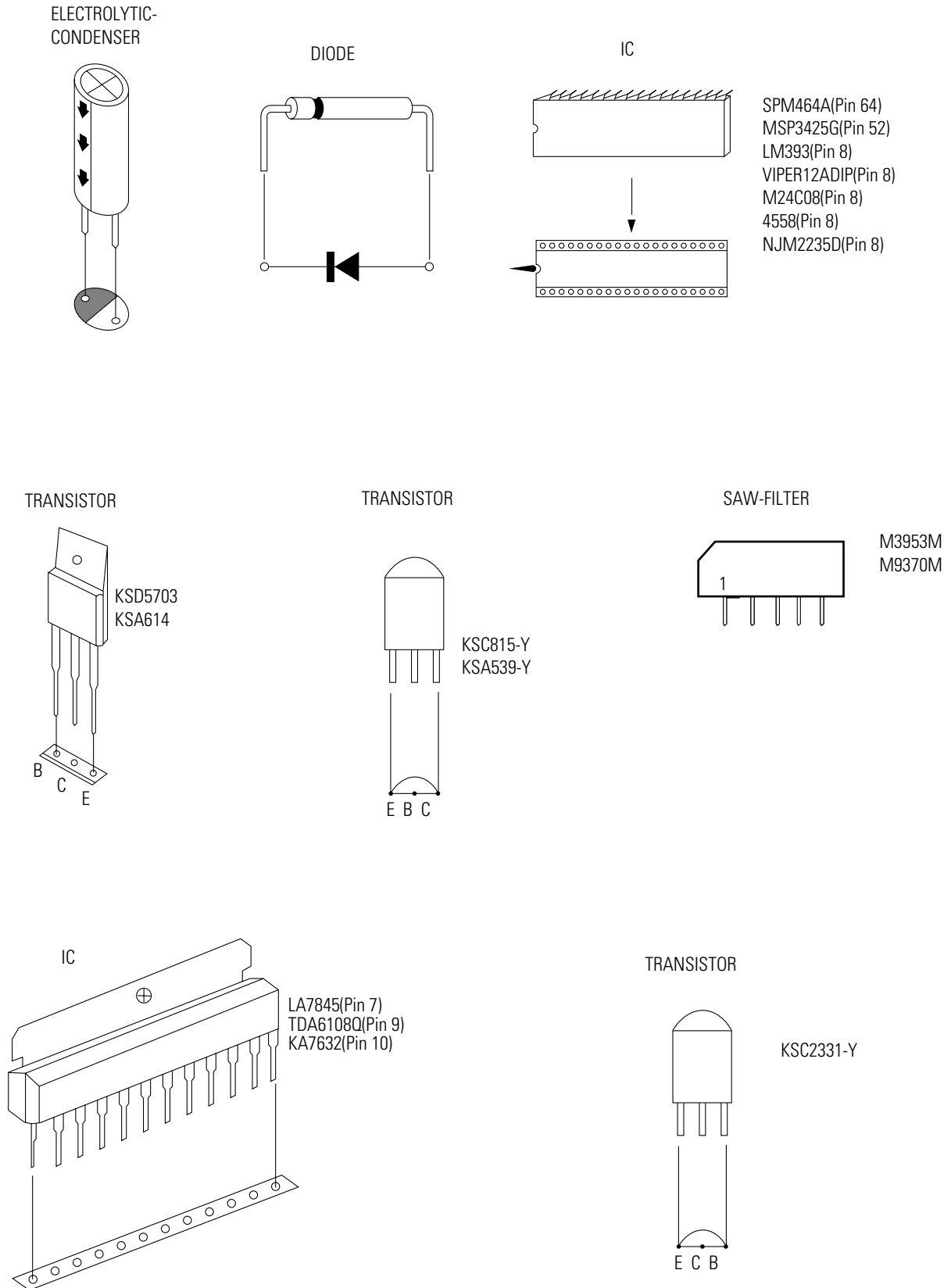


Fig. 2-1 Semiconductor Base Diagrams

# MEMO

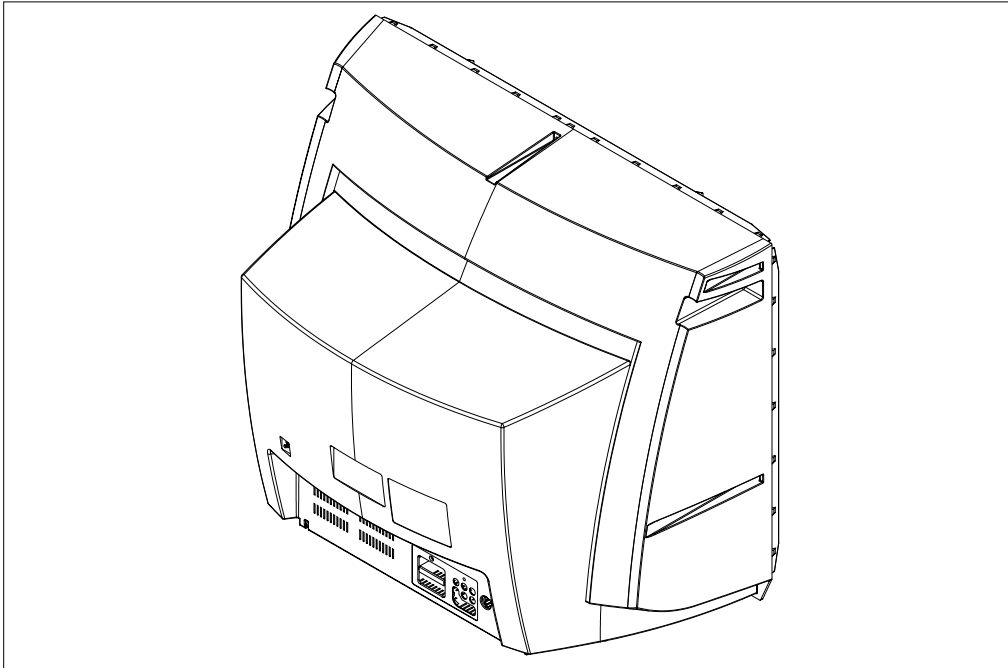
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## 3. Disassembly and Reassembly

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### 3-1 Back Cover Removal

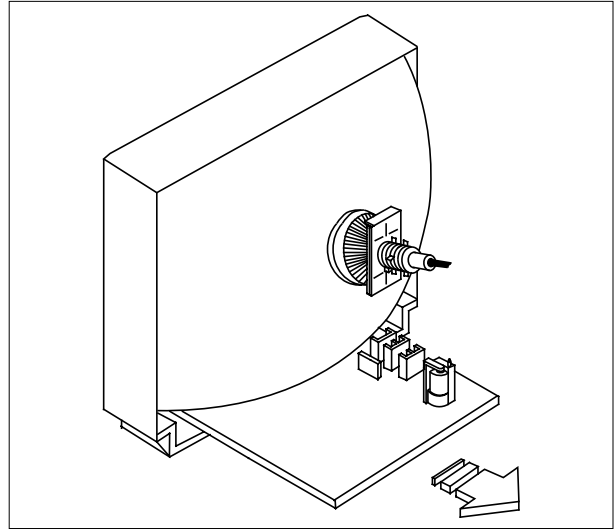
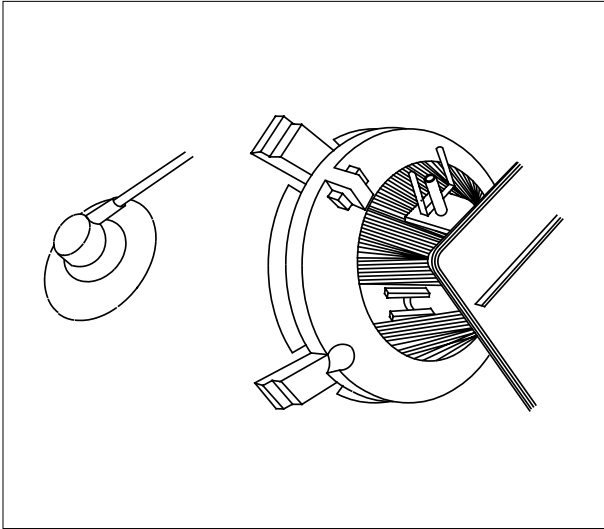
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1. After removing the screws, press the tension rib and pull the cabinet backwards.
2. To reassemble, press the tension rib (see diagram).

### 3-2 Main Board Removal

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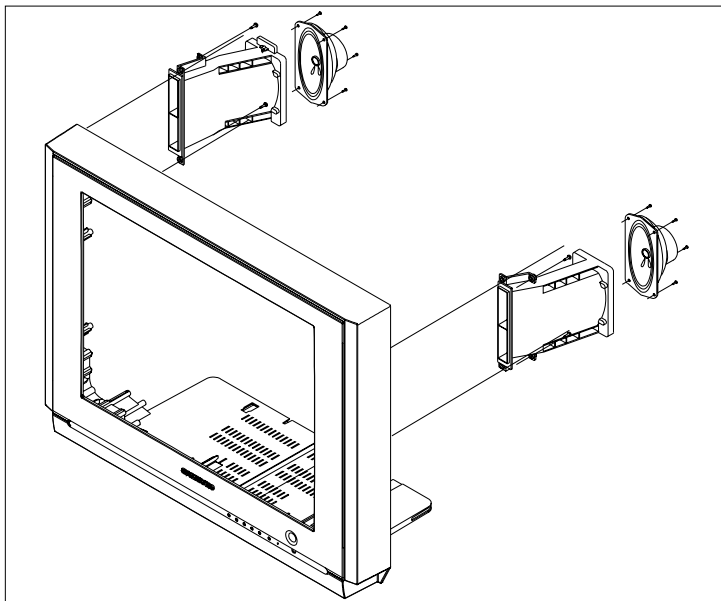


1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

**Warning:** The FBT is charged with high voltage. Before removing the Anode Cap, discharge the voltage through one of the heat sinks on the main board.

### 3-3 Speaker Removal

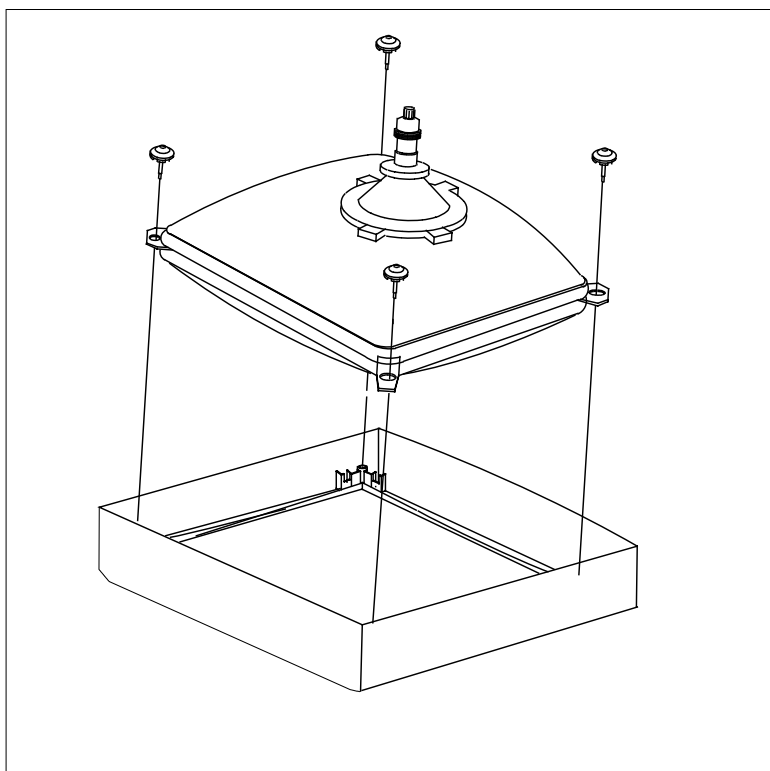
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1. Remove the speaker by pressing the tension rib.

### 3-4 CRT Removal

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1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet. Lift the CRT.
3. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it: (1) Always lift the picture tube by grasping it firmly around the faceplate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

# MEMO

## 4. Alignment and Adjustments

### 4-1 Preadjustment

#### 4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC202) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

#### 4-1-2 When EEPROM (IC202) Is Replaced

1. When IC202 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC202 is replaced, warm up the TV for 10 seconds.

#### 4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence :

White Balance  
 Sub-Brightness  
 Vertical Center  
 Vertical Size  
 Horizontal Size  
 Fail Safe (This adjustment must be the last step).

2. If the EEPROM or CRT is replaced and set SC as 30(factory mode).

### 4-2 Factory/Service Mode

#### 4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by entering the following remote-control sequence :
  - (1) DISPLAY → FACTORY.
  - (2) STAND-BY → MUTE → 1 → 8 → 2 → POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: ADJUST, OPTION , G2-ADJUST and RESET.
3. Access the Adjustment Mode by pressing the "VOLUME" keys ( ▲ , ▼ ). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys ( ▲ , ▼ ).
4. Selection sequences for the all system:
 

DOWN or UP key:

SCT>SBT>BLR>BLB>RG>GG>BG>VSL>VS>VA>HS>SC>CDL>STT>AKB>NDL>NSR>SCBT>VOL>CAP>MVOL>RP00>RP01>AGCS>OMD>SCL>PWL>MUS>AGC>HPAR>HBOW>EWID>EPAR>EUCN>ELCN>ETRP>VZ>SVM>VMA>SSP>PSNS>DNSR>DSBT>DCDL>DBLR>DBLB>DSK
5. The VOLUME keys increase or decrease the adjustment values (stored in the non-volatile memory) when Adjustment Mode is cancelled.
6. Cancel the Adjustment Mode by re-pressing the "FACTORY" or "Power OFF" keys.

**4-2-2 Main Adjustment Parameter**

NO	OSD	FUNCTION	RANGE	INITIAL DATA	SELECTION	REMARK
1	SCT	Sub Contrast	0 ~ 23	13		ADJ
2	SBT	Sub Brightness	0 ~ 23	9		ADJ
3	BLR	Black Level offset R	0 ~ 63	32		ADJ
4	BLB	Black Level offset B	0 ~ 63	32		ADJ
5	RG	Red Gain	0 ~ 63	28		ADJ
6	GG	Green Gain	0 ~ 63	25		FIX
7	BG	Blue Gain	0 ~ 63	31		ADJ
8	VSL	Vertical Slope	0 ~ 63	27		ADJ
9	VS	Vertical Shift	0 ~ 63	31		FIX
10	VA	Vertical Amplitude	0 ~ 63	32		ADJ
11	HS	Horizontal Shift	0 ~ 63	30		ADJ
12	SC	S-Correction	0 ~ 63	29		FIX
13	CDL	Cathode Drive Level	0 ~ 15	11		FIX
14	STT	Sub Tint	0 ~ 7	5		FIX
15	AKB	AKB On / off	0 ~ 1	0		FIX
16	NDL	NTSC Delay	0 ~ 15	1		FIX
17	NSR	NTSC Sub color	0 ~ 23	5		FIX
18	SCBT	Screen Brightness	0 ~ 63	36		FIX
19	VOL	Volume pre setting	0 ~ 63	10		FIX
20	CAP	Caption Position	0 ~ 15	12		FIX
21	MVOL	Melody Volume	0 ~ 50	7		FIX
22	RP00	Ratio Pre / overshoot	0 ~ 1	1		FIX
23	RP01	Ratio Pre / overshoot	0 ~ 1	1		FIX
24	AGCS	IF AGC Speed	0 ~ 3	1		FIX
25	OMD	Offset IF Demodulator	0 ~ 63	15		FIX
26	SCL	Soft Clipping Level	0 ~ 3	3		FIX
27	PWL	Peak White Limiting	0 ~ 15	15		FIX
28	MUS	Color Matrix	0 ~ 1	1		FIX
29	AGC	Automatic Gain Control	0 ~ 63	33		FIX
30	HPAR	Horizontal Parallelogram	0 ~ 63	32		ADJ
31	HBOW	Horizontal Bow	0 ~ 63	32		ADJ
32	EWID	EW Width	0 ~ 63	32		ADJ



NO	OSD	FUNCTION	RANGE	INITIAL DATA	SELECTION	REMARK
33	EPAR	EW Parabola	0 ~ 63	32		ADJ
34	EUCN	EW Upper Coner	0 ~ 63	12		ADJ
35	ELCN	EW Lower Coner	0 ~ 63	12		ADJ
36	ETRP	EW Trapezium	0 ~ 63	12		ADJ
37	VZ	Vertical Zoom	0 ~ 63	48		FIX
38	SVM	Delay of RGB to VM Output	0 ~ 3	0		FIX
39	VMA	Amplitude of SVM Output	0 ~ 3	3		FIX
40	SSP	Sub Sharpness	0 ~ 20	5		FIX
41	PSNS	Identification sens	0 ~ 1	1		FIX
42	DNSR	NSR in DVD mode	0 ~ 23	5		FIX
43	DSBT	SBT in DVD mode	0 ~ 23	4		FIX
44	DCDL	CDL in DVD mode	0 ~ 16	10		FIX
45	DBLR	BLR in DVD mode	0 ~ 63	32		FIX
46	DBLB	BLB in DVD mode	0 ~ 63	32		FIX
47	DSK	Dynamic Skin Tone Control	0 ~ 1	0		FIX

### 4-2-3 Option Bytes

In the Service Mode, various can be selected via the Option Table. Example:

Option Table : xx xx

	OSD	SETTING	REMARK
1	SYSTEM	CT-N EN/SP/FR	- Language
2	VIDEO MUTE	OFF	- Video Mute On/Off changing the channel
3	ZOOM	NOR/ZOOM	- Picture Size Option
4	AUTO POWER	OFF	- Master S/w Option
5	AUDIO MUTE	ON	- Audio Mute On/ Off without signal
6	START LANG.	ENGLISH	- Inital Language agter Factory Reset
7	HOTEL MODE	OFF	- Hotel mode On/ Off
8	BULE SCREEN	OFF	- Bule Screen On/ Off without signal
9	V-CHIP	ON	- V-CHIP ON/OFF (U.S.A)
10	AV OPTION	AV1/AV2/S-V/DVD	- AV + S-V + DVD
11	TILT	ON	- TILT ON/OFF
12	DEMO	OFF	- DEMO ON/OFF
13	EXT COMB	OFF	- External 2H-COM ON/OFF
14	V-Guard	ON	- Vertical Guard ON/OFF (*MAIN PCB A LOT : OFF)

## 4-2-4 RESET

The Reset Mode is used during factory inspection.

Function Reset:

- |                 |         |
|-----------------|---------|
| 1. Picture Mode | Dynamic |
| 2. Sound Mode   | Custom  |
| 3. Auto Volume  | Off     |
| 4. Melody       | On      |
| 5. Surround     | Off     |
| 6. Turbo Sound  | Off     |
| 7. MTS          | Stereo  |
| 8. Language     | English |
| 9. Caption      | Off     |
| 10. Timer       | Off     |

## 4-3 Other Adjustments

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### 4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

### 4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 30 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

### 4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +130 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 33KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 33KV under any conditions.

### 4-3-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

### 4-3-5 Cathode Voltage Adjustment (Screen Adjustment)

1. Input a Toshiba pattern.
2. Go to service mode and select 'G2-Adjust.
3. Adjust bottom VR of FBT to display "SCREEN ADJUST : OK"
4. Use the Menu or Mute key to complete G2 adjustment.

### 4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-2.
4. Input a black and white signal.
5. Fully demagnetize the receiver by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-3).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

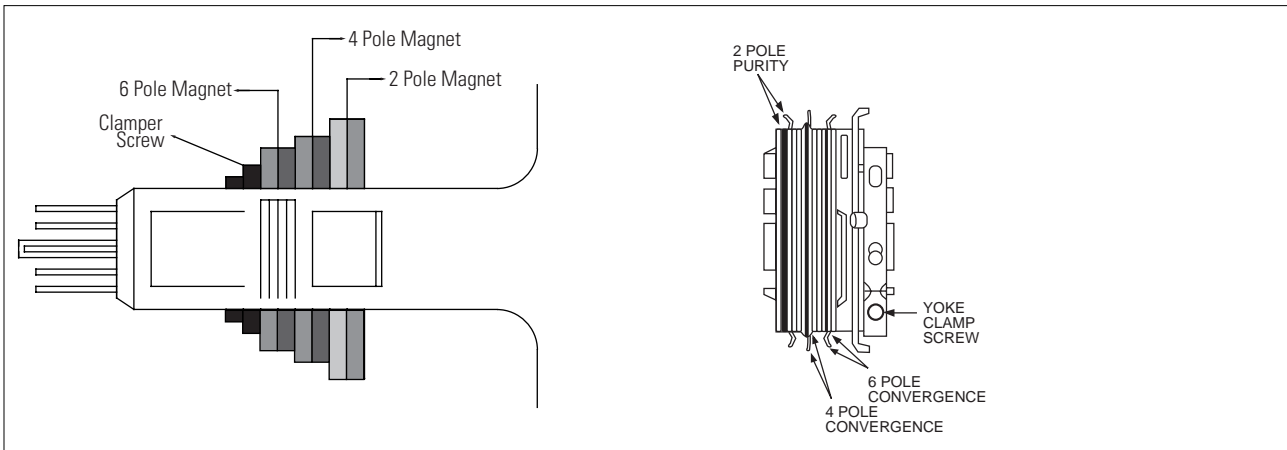


Fig. 4-2 Convergence Magnet Assembly

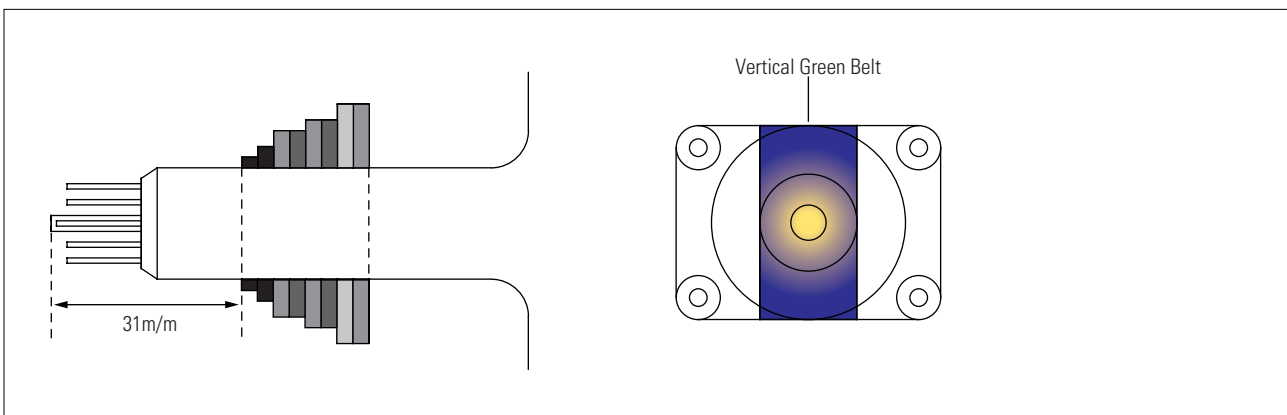


Fig. 4-3 Center Convergence Adjustment

### 4-3-7 White Balance Adjustment

#### (a) Set up

1. Warm up the TV for at least 30 minutes in the Aging Mode (OSD White). This mode is displayed by entering the following sequence:

DISPLAY →FACTORY → FACTORY

2. Input a Toshiba pattern.

#### (b) Low-Light Adjustment

1. Set SBT to 1.5 fL in the Factory Service Mode with using CA100. See Fig. 4-4.
2. Adjust RG,BG so that the levels are suitable to each local area.

#### (c) High-Light Adjustment

1. Set SCT to 45 FL in the Factory Service Mode with using CA100. See Fig. 4-4 .

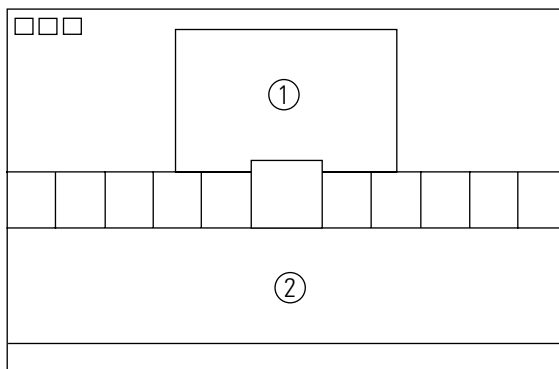


Fig. 4-4

### 4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-5).



Fig. 4-5 Center Convergence Adjustment

### 4-3-9 RF AGC Adjustment

Set the AGC data to 33 (Factory Mode).

### 4-3-10 Sub-Color Adjustment

Set NSR data to 10 (Factory Mode).

### 4-3-11 Geometry Adjustment

SC →VS→VA→VSL→HS

1. Input a lion head pattern.
2. Set the SC (S-Correction) as 29 and VS (Vertical Shift) 31 so that the lion head circle becomes oval.
3. Adjust with VA (Vertical Amplitude) so that the top margin of the picture is 4.

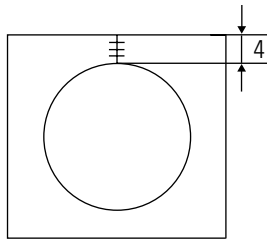


Fig. 4-7

4. Adjust with VSL (Vertical-Slope) so that the bottom margin of the picture is 4.

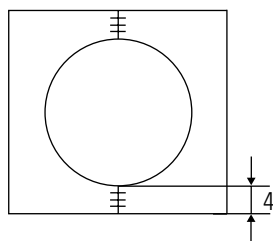


Fig. 4-8

5. Adjust with HS (Horizontal Shift) so that the lion-head pattern and CRT centers are aligned.

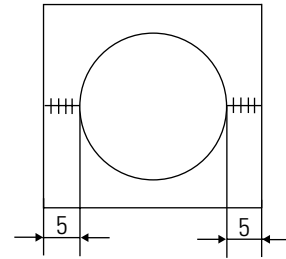
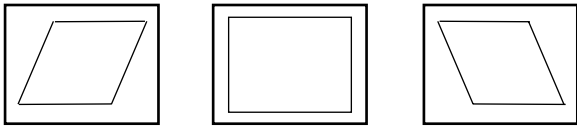


Fig. 4-9

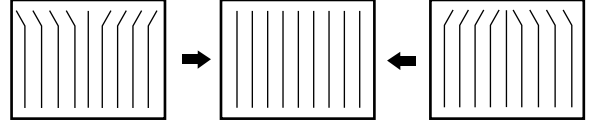
6. Adjust EWID (EW Width) so that the left and right margins of the picture are 5.
7. Input a cross-hatch pattern.

### 8. Adjust EW Geometry

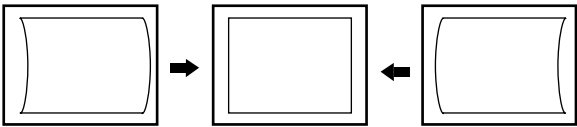
1 HPAR (Horizontal Parallelogram)



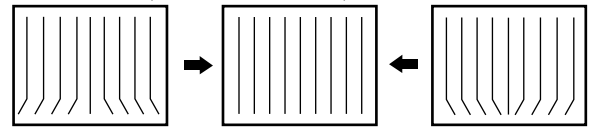
5 EUCN (EW Upper Coner)



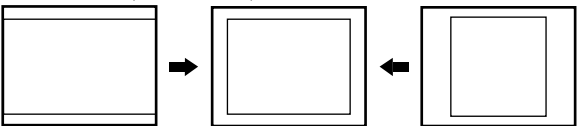
2 HBOW (Horizontal Bow)



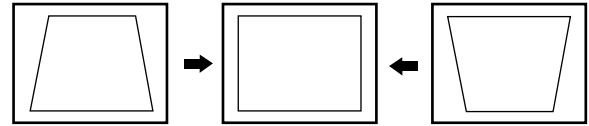
6 ELCN (EW Lower Coner)



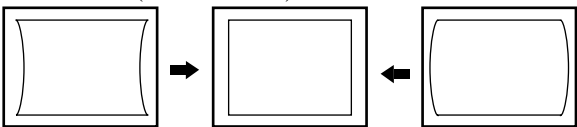
3 EWID (EW Width)



7 ETRP (EW Trapezivm)



4 EPAR (EW Parabola)



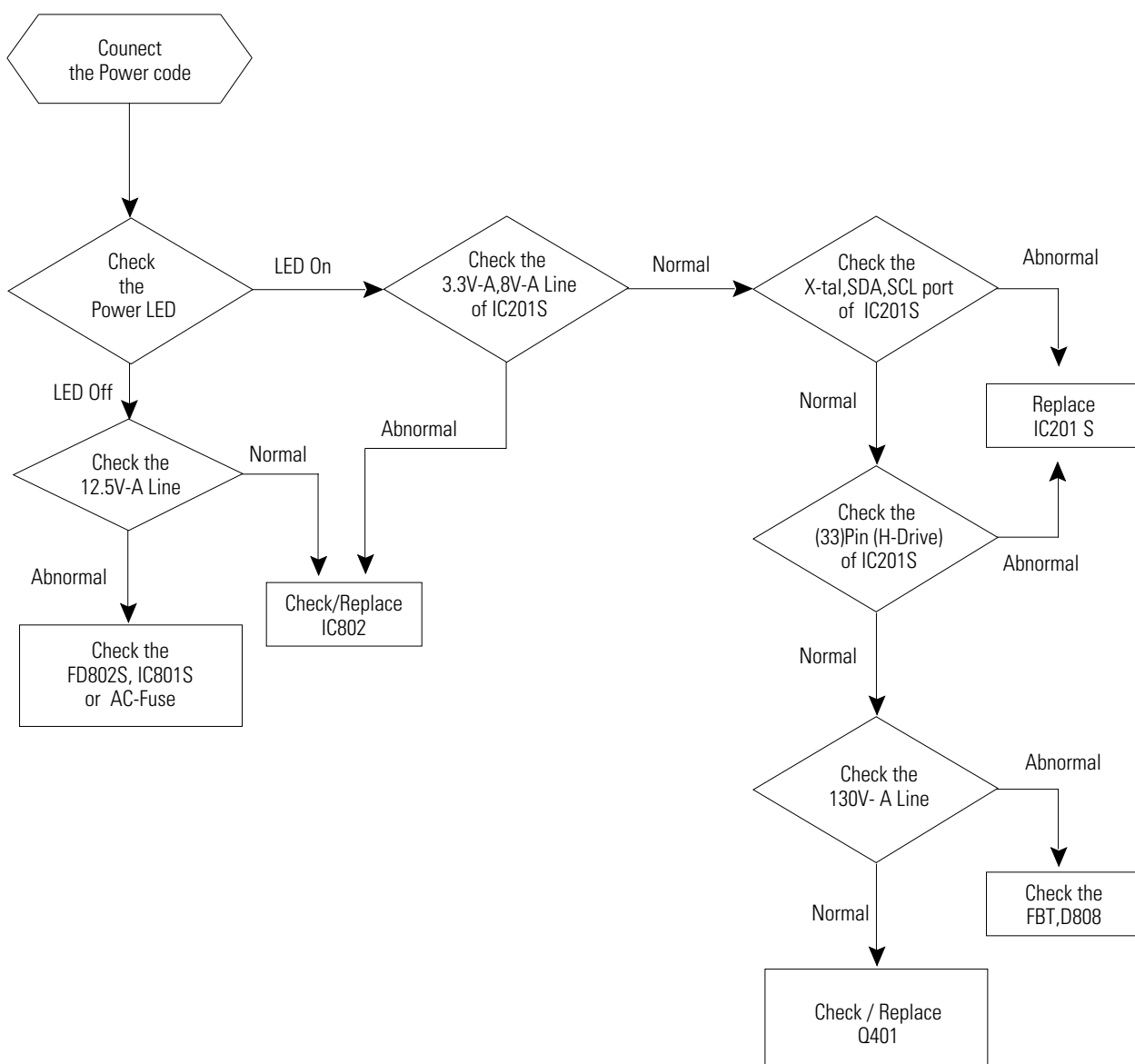




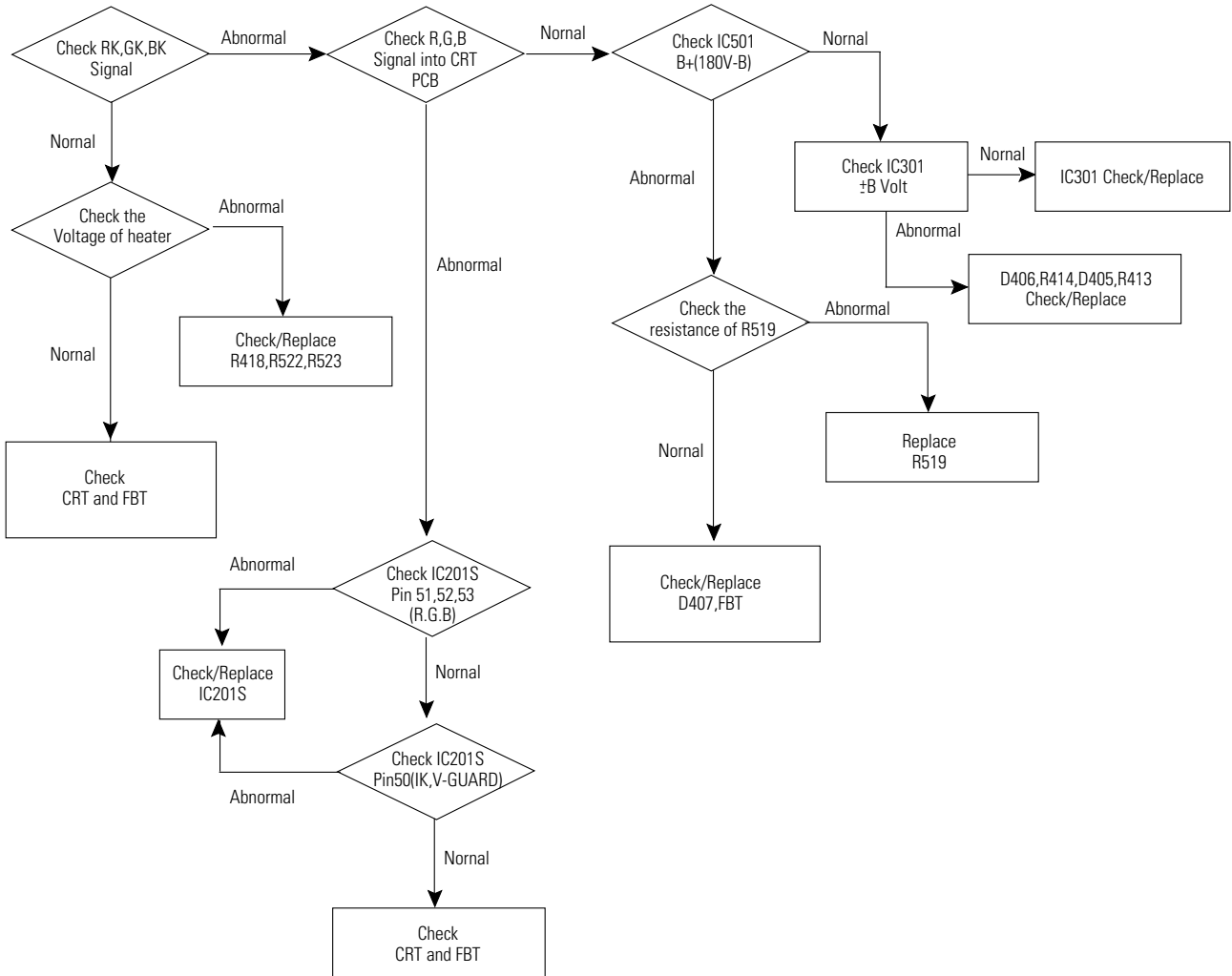
# MEMO

## 5. Troubleshooting

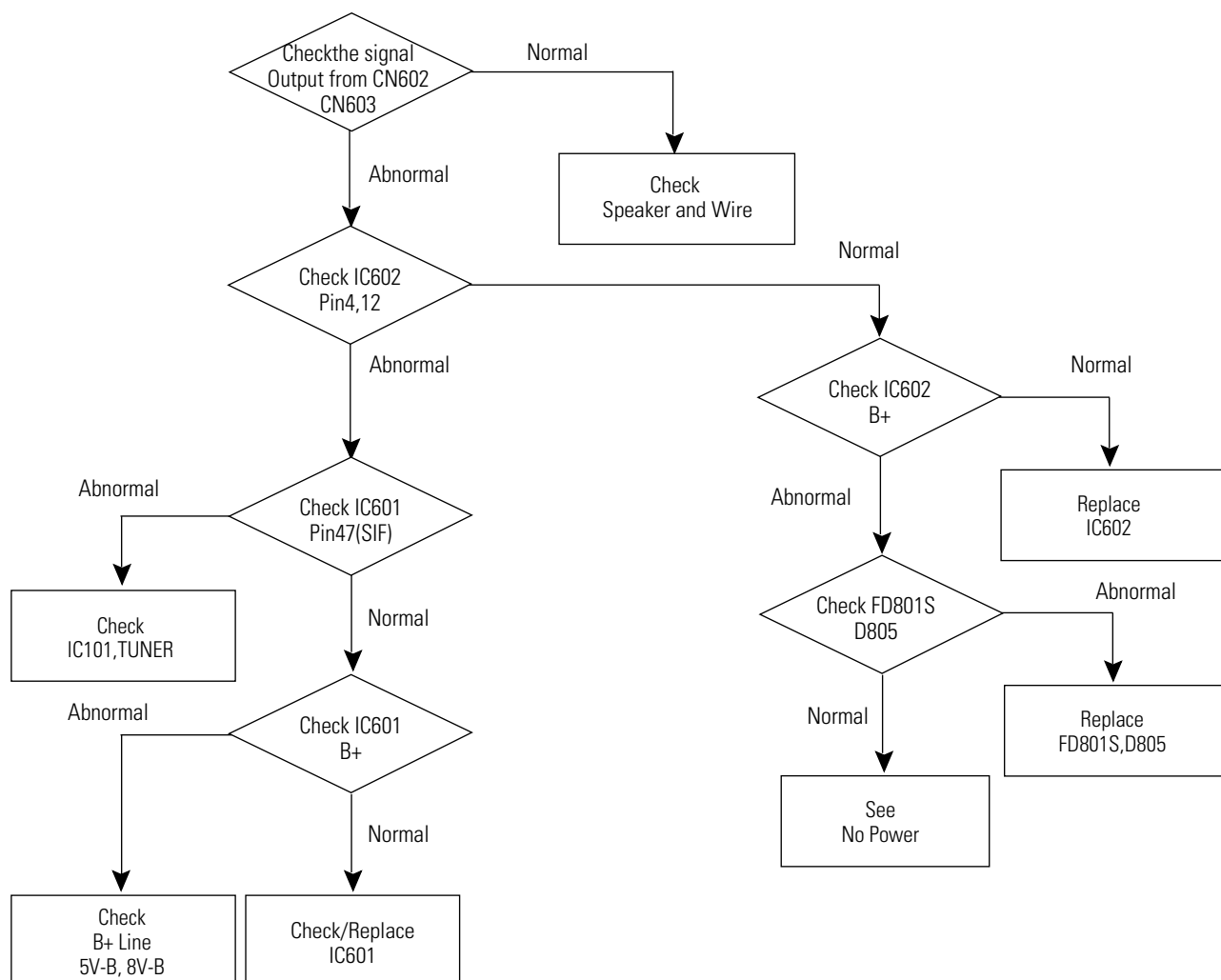
### 5-1 No Power



## 5-2 No Video (Sound OK)

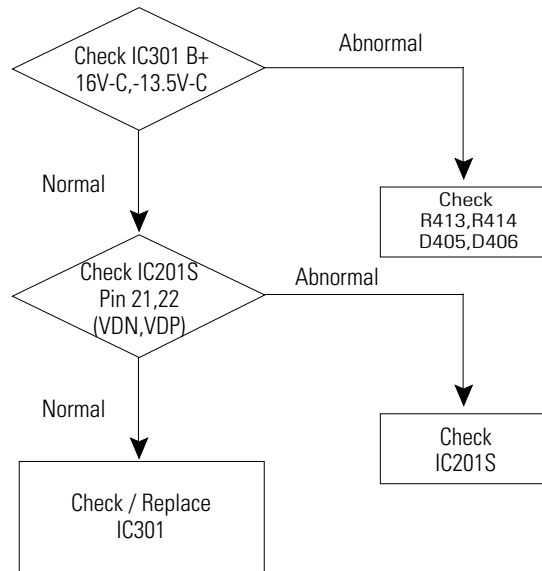


### 5-3 No Sound (Video OK)



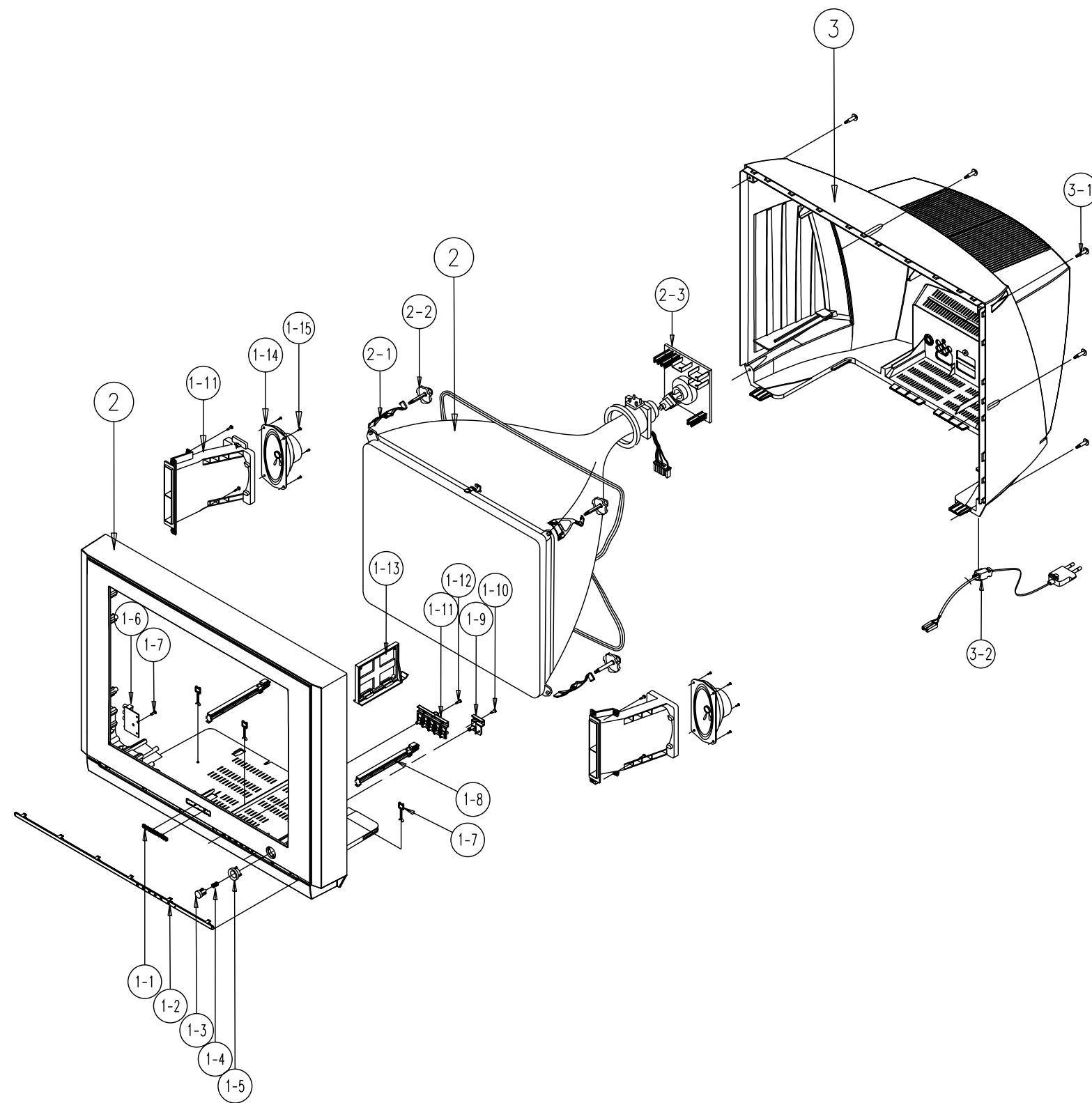
## 5-4 Horizontal Lines Appear or Screen

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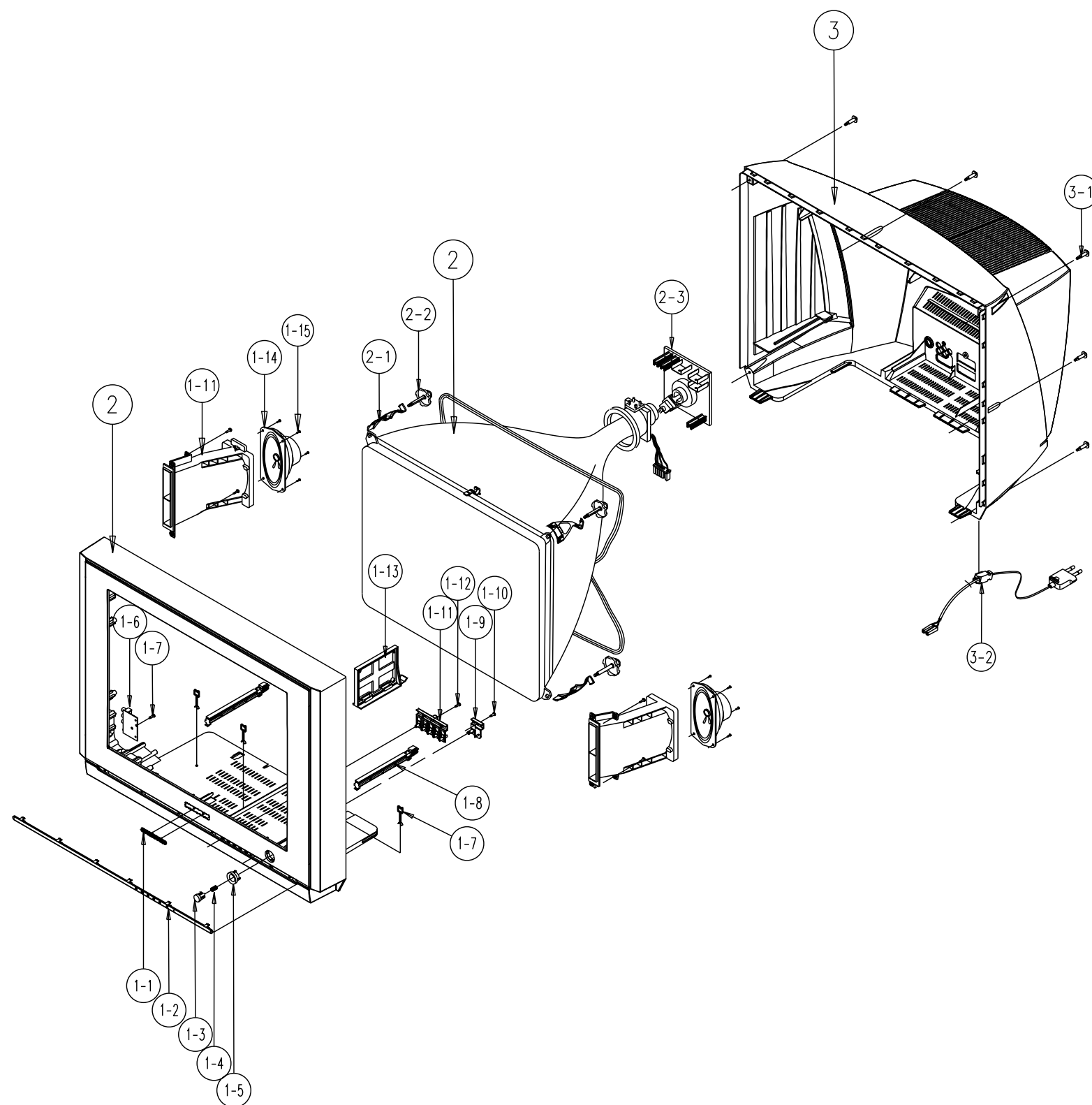
## 6. Exploded View & Parts List

### 6-1 TXM2792FX/XAA



No	Code No	Description;Specification	Q'ty	Remark
1	AA91-00777V	ASSY CABINET FRONT;29M6 SEA,DG703P ALL,	1	
	AA64-02099F	CABINET-FRONT;29M6 SEA,HIPS,V0,BLK,DG703	1	
1-1	AA64-70117B	BADGE-BRAND;-AL,-,-,L65,R2000,SILVER,SS	1	
1-2	AA63-00488G	COVER-CONTROL;29M6,ABS,HB,G3676,SV704P+C	1	
1-3	AA64-02100F	KNOB POWER;25M6,29M6,ABS,HB,G3676,DG703P	1	
1-4	AA61-60003J	SPRING-CS;-SUS304,-,-,OD6,N7,OD6,-,-,-,	1	
1-5	AA64-02104F	DECORATION-POWER;25M6,29M6,ABS,HB,G3676,	1	
1-6	AA94-08584K	ASSY PCB MISC-A/V,SIDE ;TXM2792FX/XAA,K57A	1	PCB
1-7	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR	2	AV+CF
1-8	AA61-00711D	HOLDER-PCB;29U1,U2,HIPS FV2,BK502(HB-PRO	2	
1-9	AA64-02103B	WINDOW-RMC,LED;25M6,29M6,ACRYL,HB,CLEAR	1	
1-10	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	1	WR+CF
1-11	AA64-02102E	KNOB CONTROL;25M6,29M6,ABS,HB,G3676,SV70	1	
1-12	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	1	KC+CF
1-13	AA61-00813B	SUPPORT-CRT;25M6,29M6,HIPS,HB,NATURL	1	
1-14	AA91-00507A	ASSY HOLDER SPK;-,-,80HM/15W,-,ASSY HOLD	1	
1-15	6006-001095	SCREW-ASS'Y TAPT;WV,BH,+M4,L12,ZPC(YEL)	4	SPK+CF
2	AA03-00273A	CRT COLOR;A68QCP891X100,+380MG,2.3MH,24.	1	
2-1	AA65-00019A	CLAMP CORE-D,COIL;25-34,NYLON 66,V2,NTR	4	
2-2	AA60-10050V	SCREW-ASSY;-SWRCH18A,M6,L30,HH,+WC,-,Z	4	CRT+CF
2-3	AA94-08273Y	ASSY PCB MISC-CRT;TXM2792FX/XAA,K57A	1	VA999
3	AA64-02099F	CABINET-BACK;29M6,HIPS,V0,BLK	1	
3-1	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+2S,	7	CB+CF
3-2	AA96-20129A	ASSY-POWER,CORD;-EP2/YES,H/C300,ME301P,	1	

### 6-2 TXM2792FX/XAC



No	Code No	Description;Specification	Q'ty	Remark
1	AA91-00777Y	ASSY CABINET FRONT;29M6 K57A SECA,I1112	1	
	AA64-03038F	CABINET-FRONT;29M6 K57A SECA,HIPS,V0,G43	1	
1-1	AA64-70117B	BADGE-BRAND;-AL,-,L65,R2000,SILVER,SS	1	
1-2	AA63-00488B	COVER-CONTROL;29M6,ABS,HB,WHT,SVM6145+CL	1	
1-3	AA64-02100B	KNOB POWER;25M6,29M6,ABS,HB,G3676,IVN-11	1	
1-4	AA61-60003J	SPRING ETC-CS;-SUS304,-,OD6,N7,OD6,-,	1	
1-5	AA64-02104B	DECORATION-POWER;25M6,29M6,ABS,HB,WHT,SV	1	
1-6	AA94-08584K	ASSY PCB MISC-A/V SIDE;TXM2792FX/XAA,K57	1	
1-7	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	2	AV+CF
1-8	AA61-00711D	HOLDER-PCB;29U1,U2,HIPS V0,BK502(HB-PROP	2	
1-9	AA64-02103B	WINDOW-RMC,LED;25M6,29M6,ACRYL,HB,CLEAR	1	
1-10	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	WR+CF
1-11	AA64-02102B	KNOB CONTROL;25M6,29M6,ABS,HB,G3676,SV10	1	
1-12F	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+C
1-13	AA61-00813B	SUPPORT-CRT;25M6,29M6,HIPS,HB,NATURL	1	
1-14	AA91-00507A	ASSY HOLDER SPK;-,-80HM/15W,-,ASSY HOLD	1	
1-15	6006-001095	SCREW-ASS'Y TAPT;W/BH,+,M4,L12,ZPC(YEL)	4	SPK+CF
2	AA03-00273A	CRT COLOR;A68QCP891X100,+380MG,1.1MH,14.	1	
2-1	AA65-00019A	CLAMPER CORE-D,COIL;25-34,NYLON 66,V2,N	4	
2-2	AA60-10050V	SCREW-ASSY;-SWRCH18A,M6,L30,HH,+,WC,-,Z	4	CRT+CF
2-3	AA94-08273Y	ASSY PCB MISC-CRT;TXM2792FX/XAA,K57A	1	
3	AA64-02099E	CABINET-BACK;29M6,HIPS,V0,G4309	1	
3-1	AA60-10050T	SCREW-TAPPING;-SWRCH18A,M4,L20,RH,+,2S,	7	CB+C
3-2	AA65-30008A	CLAMPER CORE-CORD;-PE,HB,-,BLK,-	1	



# 7. Electrical Parts List

## 7-1 TXM2792FX/XAA

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY CHASSIS</b>							
1	*	AA91-04214R	ASSY CHASSIS;TXM2792FX/XAA				
△	..2	AA96-20129A	ASSY POWER CORD;-;EP2/YES,H/C300,ME301P,	....4	6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR	
....3	3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22		....4	0402-001399	DIODE-BRIDGE;GSIB660,600V,6A,SIP-4,BK	
....3	AA39-10007Y	CBF POWER CORD;-;EP2/YES,SPT-2 18AWGx2C,		....4	0205-000129	GREASE-SILICON;SC102,JAPAN	
....3	AA61-20284A	HOLDER;P-CORD,PP;-;-;BLK,VO,KE-002		△	..3	D805	BP96-00020F
..2	AA94-11565A	ASSY PCB MISC-CONTROL;TXM2792FX/XAA,K57A		....4	CIS	0205-001027	OIL-SILICON;G746;-;
....3	CNY01	AA39-00100C	LEAD CONNECTOR-ASSY;.4P;YBNH250-04,35155	....4	CIS	0402-001375	DIODE-RECTIFIER;FFFP10U20S,200V,10A,TO-2
....3	CNY02	AA39-20005A	LEAD CONNECTOR-ASSY;.3P;YBNH025-03,67096	....4	CIS	6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR
....3	CY01	2401-001840	C-AL;100uF,20%,16V,GP,TP;6.3x11,5	....4	CIS	AA62-00045A	HEAT SINK-PS;-;T1.0;-;-DREAM;-;-;-;
....3	LDY02	0601-000465	LED;ROUND,GRN,5mm,565	△	..3	D808	BP96-00020J
....3	RMV01	AA32-00012A	MODULE REMOCON;ORC-50HF2,38KHZ,940NM,MES	....4	CIS	0205-001027	OIL-SILICON;G746;-;
....3	SW07	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	....4	CIS	0402-001230	DIODE-RECTIFIER;FMG-G2CS,1000V,3A,TO-220
....3	SWY02	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	....4	CIS	6003-000335	SCREW-TAPTITE;RH,+2S,M3,L8,ZPC(YEL),SWR
....3	SWY03	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	....4	CIS	AA62-00045A	HEAT SINK-PS;-;T1.0;-;-DREAM;-;-;-;
....3	SWY04	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	△	..3	D812	0406-001007
....3	SWY05	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	△	..3	IC201S	AA09-00316A
....3	SWY06	3404-000176	SWITCH-TACT;12V,50mA,120gf,6x6mm,SPST	....3	IC602	AA96-50398A	ASSY H/S;-;-;AA62-30182E,TDAT297;-
....3	AA97-07608W	ASSY AUTO-CONTROL;TXM2792FX/XAA,K57A		....4	CIS	0205-000129	GREASE-SILICON;SC102,JAPAN
....4	DZY01	0403-000508	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	....4	CIS	1201-001064	IC-POWER AMP;7297,ZIP,15P;-;DUAL,32dB,PL
....4	PCB	AA41-00709A	PCB-QUEST CONTROL;TXM2792FX,FR-1,1L,A,1.	....4	CIS	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW
....4	RY01	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	....4	CIS	AA62-30182E	HEAT SINK-ES;-;A6063 EXTR.-;WHT;-;-;-40
....4	RY02	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	△	..3	IC801S	AA96-50371J
....4	RY03	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	....4	CIS	AA62-30181H	HEAT SINK-ES;-;AL6063 EXTR.-;2,WHT,50MM,-
....4	RY04	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	....4	CIS	AA61-11028A	BRACKET;-;SECC,T1.0;-;-;-
....4	RY05	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	....4	CIS	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW
....4	RY06	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	....4	CIS	1203-002597	IC-PWM CONTROLLER;KA5Q1265RF-YDTU,TO-3PF
....4	RY07	2001-000793	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	....4	CIS	0205-001027	OIL-SILICON;G746;-;
....4	RY08	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	....3	ICP01	1203-002177	IC-PWM CONTROLLER;VIPER12ADIP,DIP,8P,300
....3	3301-001456	CORE-FERRITE;AE,15*ø7*ø18MM,-;-		....3	JA701	3722-001333	JACK-PIN;9P;3.2mm,NI,BLK,-
....3	AA63-10002A	BAND-TIE;NYLON66 V2,L100,NTR		....3	JA702	3722-001423	JACK-PIN;3P+S1P;3.4mm,NI,BLK,-
....3	0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb		....3	L405	AA27-00057A	COIL HORIZ. WIDTH;-;10mH,YL-9N 15x27.5 C
..2	AA94-08584K	ASSY PCB MISC-A/V SIDE;TXM2792FX/XAA,K57		....3	L410	AA27-00067A	COIL HORIZ. WIDTH;-;240uH,YL9N 12x20 C-6
....3	CN701	AA39-20068E	LEAD CONNECTOR-ASSY;.8P;YBNH025-08,67096	....3	Q401	AA96-00624A	ASSY H/S;-;-;POWER,AA62-00057A,KSD5703,WAS
....3	CN702	AA39-20070F	LEAD CONNECTOR-ASSY;.7P;YBNH025-07,67096	....4	AA62-00057A	HEAT SINK-PS;-;T1.0;-;-41*20*60,D2;-;-	
....3	CN703	AA39-20069C	LEAD CONNECTOR-ASSY;.5P;YBNH025-05,67096	....4	AA60-30001A	WASHER-PLATE;M3,ID3.5,15X8.5,T1.0,SBHG	
....3	CN704	AA39-00070A	LEAD CONNECTOR-ASSY;.4P;YBNH250-04,35184	....4	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	
....3	JA701	3722-001031	JACK-PIN;3P;3.6mm,#18,AU	....4	0502-001136	TR-POWER;KSD5703,NPN,70W,TO-3PF;ST,8-	
....3	JH701	3722-000143	JACK-PHONE;1P(VER);3.4PI,AG,BLK,NO	....4	0205-000129	GREASE-SILICON;SC102,JAPAN	
....3	JS701	3722-001163	JACK-VHS;4P,12mm,AU,BLK,N	△	..3	T444S	AA26-00057A
....3	AA97-12914A	ASSY AUTO-A/V SIDE;TXM2792FX/XAA,K57A		△	..3	T801S	AA26-00179A
....4	C701	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	....3	TP801	BP26-00001A	TRANS SWITCHING;49B135,QUEST,90-264V,PM5
....4	C702	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	....3	AA60-40012D	PIN-GT,ASSY;T1.6,6-12.5,-;NYLON66	
....4	C703	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	....3	AA65-30110A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	
....4	C704	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	....3	AA65-30018A	CLAMPER CORE-WIRE;DONG-A,NYLON-66;-;-;-;	
....4	C705	2401-002009	C-AL;100uF,20%,16V,GP,TP;6.3x7,5	....3	0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	
....4	C706	2401-002009	C-AL;100uF,20%,16V,GP,TP;6.3x7,5	....3	AA97-07560Z	ASSY ROBOT-MAIN;TXM2792FX/XAA,K57A	
....4	L701	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	....4	C821	2401-003633	C-AL;220UF,20%,160V,GP,ST,22X25MM,10
....4	L702	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	△	..4	CN902	3711-003043
....4	L703	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	△	..4	CR402S	2301-001037
....4	L704	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	△	..4	CR403S	2306-000327
....4	L707	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	△	..4	CR406S	2306-001017
....4	L708	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	△	..4	CX801S	2306-000318
....4	PCB	AA41-00345A	PCB-SIDE A/V;CS29K1,FR-1,1L,A,1.6T,245x2	△	..4	CX802S	2306-000318
....4	R701	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	△	..4	CY801S	2201-000446
....4	R702	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4	....4	D404	0402-001296	DIODE-RECTIFIER;FMP-3FU,1.5KV,5A,TO-3PF,
....4	R703	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	△	..4	FP801S	3601-000293
....4	R704	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	....4	IC101	1204-000506	FUZE-CARTRIDGE;250V,5A,SLOW-BLOW,GLASS,5
....3	0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb		....4	IC202	1103-001200	IC-IF DETECTOR;LA7510,SIP,9P,-;PLASTIC,1
..2	AA94-08533T	ASSY PCB MAIN;TXM2792FX/XAA,K57A		....4	IC301	AA96-50406A	IC-EEPROM;M24C08-WBN6,1024x8BIT,DIP,8P,3
....3	-	AA39-20010B	LEAD CONNECTOR-ASSY;.1P;YFH800-01,S,500,	....5	0205-000129	GREASE-SILICON;SC102,JAPAN	
....3	C406	2301-001296	C-FILM,MPPF;720NF,5%,400V,BK,26X15.5X20M	....5	1204-000517	IC-VERTICAL DEF;LA7845,SIP,7P,-;PLASTIC	
....3	C803	2401-001652	C-AL;680uF,20%,250V,GP,BK,25x50mm,1.	....5	6003-000333	SCREW-TAPTITE;RH,+2S,M3,L10,ZPC(YEL),SW	
△	..3	D801S	AA96-00276C	....5	AA62-30180K	HEAT SINK-ES;-;A6063 EXTR.-;WHT,50/13,-;	
....4	AA62-00052A	HEAT SINK-PS;-;-;-;SILVER,HOLE 18.5mm, 2		....4	IC601	1204-001662	IC-SOUND PROCESSOR;MSP3425G-B8,DIP,52P;5
....4	AA60-30003A	WASHER;T1.5,SBHG-1		△	..4	IC802	AA96-00245A
....4				....5	1203-001939	IC-POSI-FIXED REG.;7632,SIP,10P,-;PLASTI	
....4				....5	6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,ZPC(YEL),SWR	
....4				....5	AA62-00055A	HEAT SINK-PS;-;-;T1.0;-;-35*15*25,D1;-;-	
....4				....4	ICE01	1202-000103	IC-VOLTAGE COMP.;393,DIP,8P,300MIL,DUAL,





Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
.....5	EY809	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L209	2701-000159	INDUCTOR-AXIAL;22uH,10%,4.2x9.8mm
.....5	EY810	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L210	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm
.....5	EY811	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L211	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm
.....5	EY812	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L212	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm
.....5	EY813	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L230	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm
.....5	EY814	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L301	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY815	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L302	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY816	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	△.....5	L401	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm
.....5	EY818	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	△.....5	L402	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY819	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L403	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
.....5	EY820	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L404	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY821	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L407	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
.....5	EY822	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L601	2701-000169	INDUCTOR-AXIAL;3.9uH,10%,2.5x3.4mm
.....5	EY823	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L602	2701-000169	INDUCTOR-AXIAL;3.9uH,10%,2.5x3.4mm
.....5	EY824	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L603	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm
.....5	EY825	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L604	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm
.....5	EY826	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L605	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm
.....5	EY827	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L707	2701-000127	INDUCTOR-AXIAL;15uH,10%,2.5x3.4mm
.....5	EY828	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L801	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY829	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L802	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY830	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L803	2701-000159	INDUCTOR-AXIAL;22uH,10%,4.2x9.8mm
.....5	EY831	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L804	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY832	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L805	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
.....5	EY833	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L806	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,
.....5	EY834	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L809	3301-001223	CORE-FERRITE BEAD;AA,62ohm,3.5x0.8x5mm,-
.....5	EY835	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	L810	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
.....5	EY836	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	LE01	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm
.....5	EY838	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	LE02	2901-000297	FILTER-EMI ON BOARD;-3A,-,-,3.5x5,TP-
.....5	EY839	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	PCB	AA41-00656A	PCB-MAIN;QUEST,FR-1,1L,A,1.6T,330X245,K5
.....5	EY840	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q203	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY841	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q204	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY842	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q205	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T
.....5	EY843	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q206	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T
.....5	EY844	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q207	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY845	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q208	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY848	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q211	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T
.....5	EY850	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q402	0502-001007	TR-POWER;KSC2073-H2,NPN,25W,TO-220,ST,6
.....5	EY851	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q701	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY853	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q702	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T
.....5	EY854	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q801	0502-000242	TR-POWER;KSA614,PNP,25W,TO-220,TP,40-24
.....5	EY855	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q802	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY856	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	Q951	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1000mW,TO-
.....5	EY857	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	QE01	0505-000156	FET-SILICON;IRF620,N,200V,5A,0.8ohm,50W,
.....5	EY858	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	QP01	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T
.....5	EY859	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	△.....5	QR01S	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T
.....5	EY860	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R101	2001-000554	R-CARBON;2700HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	EY862	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R102	2001-000554	R-CARBON;2700HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	EY863	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R103	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	EY864	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R104	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	EY865	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R105	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	EY866	AA60-40011A	K EYELET;ID2.0,OD2.8,BST	.....5	R136	2001-000924	R-CARBON;6800HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	F801A	3602-000114	FUSE-HOLDER;-,-,30mohm	.....5	R202	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	F801B	3602-000114	FUSE-HOLDER;-,-,30mohm	.....5	R203	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
△.....5	FD801S	3601-001228	FUSE-AXIAL LEAD;125V,10A,FAST-ACTING,EPO	.....5	R204	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
△.....5	FD802S	3601-001163	FUSE-AXIAL LEAD;125V,7A,-,EPOXY,2.4X7.1M	.....5	R205	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
△.....5	FD803S	3601-000120	FUSE-AXIAL LEAD;125V,2.5A,FAST-ACTING,GL	.....5	R206	2001-000290	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT102	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R207	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT404	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R208	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT801	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R209	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT802	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R210	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT803	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R211	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT804	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R212	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT805	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R213	2001-000290	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	GT806	AA60-40014A	PIN-GT,ASSY;AUTO	.....5	R214	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	IC603	1203-000515	IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL	.....5	R215	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
△.....5	IC803	1203-001217	IC-POS.IADJUST REG.;431,TO-92,3P,4.58MIL	.....5	R216	2001-000645	R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	J213	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	.....5	R217	2001-000857	R-CARBON;5600HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	J235	3301-000287	CORE-FERRITE BEAD;AA,3.5x1.0x6.0mm,1500,	.....5	R219	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	J708	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	.....5	R220	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L101	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	.....5	R221	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L102	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	.....5	R222	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L201	2701-000184	INDUCTOR-AXIAL;4.7uH,10%,2.5x3.4mm	.....5	R223	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L202	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm	.....5	R228	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L203	2701-000177	INDUCTOR-AXIAL;33uH,10%,2.5x3.4mm	.....5	R229	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L204	2702-000142	INDUCTOR-RADIAL;22uH,5%,6x6.4mm	.....5	R230	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM
.....5	L205	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	.....5	R231	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8X3.2mm
.....5	L206	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	.....5	R236	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM





Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
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### ASSY COVER FRONT

1	*	AA90-03243K	ASSY COVER FRONT;TXM2792FX/XAA
..2	AV+CF	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR
..2	BRA+CF	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR
..2	CB+CF	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+,2S,
..2	CB+HP	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW
..2	CB+RJ	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR
..2	CRT	AA64-01334B	INLAY-CRT;ORION,PS SHEET,T1.0,50*30,-,-
..2	CRT+CF	AA60-10050V	SCREW-ASSY;- ,SWRCH18A,M6,L30,HH,+,WC,-,Z
..2	PCB+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR
..2	PCB+HP	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW
..2	SPK+CF	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)
..2		AA91-00507A	ASSY HOLDER SPK;-,-,80HM/15W,-,ASSY HOLD
..2		AA60-00055C	SPACER-GUM,CRT;ALL MODEL,NTR RUBBER,GRY,
..2		AA91-00777V	ASSY CABINET FRONT;29M6 K57A SEA,DG703P
..3	KC+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR
..3	WR+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR
..3		AA64-02102E	KNOB CONTROL;25M6,29M6,ABS,HB,G3676,SV70
..3		AA64-02103B	WINDOW-RMC,LED;25M6,29M6,ACRYL,HB,CLEAR
..3		AA64-02104F	DECORATION-POWER;25M6,29M6,ABS,HB,G3676,
..3		AA64-70117B	BADGE-BRAND;- ,AL,-,-,L65,R2000,SILVER,SS
..3		AA65-00011C	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,
..3		AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,
..3		AA64-02100F	KNOB POWER;25M6,29M6,ABS,HB,G3676,DG703P
..3		AA61-00711D	HOLDER-PCB;29U1,U2,HIPS VO,BK502(HB-PROP
..3		AA61-60003J	SPRING ETC-CS;- ,SUS304,-,-,OD6,N7,OD6,-,
..3		AA63-00488G	COVER-CONTROL;29M6,ABS,HB,G3676,SV704P+C
..3		AA64-01506N	INLAY-AV;29M6,PVC-SHEET,T0.3,D/GRAY,K57A
..3		AA64-02096S	CABINET-FRONT;29M6 SEA,HIPS,VO,BLK,DG703
..2		AA73-00005B	RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT
..2		AA65-30017A	CLAMPER CORE-D,COIL;- ,NYLON-66,VO,-,NTR,
..2		AA65-00019A	CLAMPER CORE-D,COIL;25-34,NYLON 66,V2,N
..2		AA61-10054A	BRACKET-CRATER;6277,STS304,T0.5,-,-,-,-
..2		AA61-00813B	SUPPORT-CRT;25M6,29M6,HIPS,HB,NATURL

### ASSY P/MATERIAL

1	*	AA92-03126U	ASSY P/MATERIAL;29M6
..2		AA63-10007C	BAND-PP;W18,CLEA,1G
..2		AA60-40006A	PIN-STAPLE;33X17.8X2.4,H18,33X17.8X2.4

### ASSY CPT

1	*	AA91-03995N	ASSY CPT;A68QCP(+),29,+380MG,ITC,SDI FL
..2		AA27-20002Q	COIL DEGAUSSING;- ,29,14ohm,70T,L3300,E
..2		AA91-02173K	ASSY CPT;A68QCP891X100,29,+380MGAA03-00
△ ..3		AA03-00273A	CRT COLOR;A68QCP891X100,+380MG,1.1MH,14.
..2		AA98-70011A	ASSY TBC WIRE(P);-,29INCH,NTSC,PAL,2P-WH
..2		3301-001456	CORE-FERRITE;AE,15°ø7ø18MM,-,-

### ASSY ACCESSORY

1	*	AA92-05394Q	ASSY ACCESSORY;TXM2792FX/XAA,TXM2792F,EN
..2		AA68-40065B	CARD-REGISTRATION;SEA,A5,ENG,A/P220,2P(
..2		AA68-02477A	MANUAL USERS;TXM2792F,ENG,W/P100,K57A,B5
..2		AA68-00372A	CARD-WARRANTY;CTV,TVCR ALL,W/P100(G),B5,
..2		AA59-00141D	REMOCON;TM58,SSM174PT,41,SS,L/GRAY,MBR,
..3		2802-000194	RESONATOR-CERAMIC;8MHz,1.0%,TP,8.5x4.5x5
..3		AA09-00052A	IC MICOM;Z86L8808SSC-R5019,2-3.9V,REMOCO















Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
..2	PCB+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR				
..2	PCB+HP	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW				
..2	SPK+CF	6006-001095	SCREW-ASS'Y TAPT;WPBH,+,M4,L12,ZPC(YEL)				
..2		AA91-00777Y	ASSY CABINET FRONT;29M6 K57A SECA,I1112				
...3	KC+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR				
...3	WR+CF	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR				
...3		AA64-02103B	WINDOW-RMC,LED;25M6,29M6,ACRYL,HB,CLEAR				
...3		AA64-02104B	DECORATION-POWER;25M6,29M6,ABS,HB,WHT,SV				
...3		AA64-03038F	CABINET-FRONT;29M6 K57A SECA,HIPS,VO,G43				
...3		AA64-70117B	BADGE-BRAND;-AL,-,L65,R2000,SILVER,SS				
...3		AA65-00011C	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,				
...3		AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,				
...3		AA64-02102B	KNOB CONTROL;25M6,29M6,ABS,HB,G3676,SV10				
...3		AA61-00711D	HOLDER-PCB;29U1,U2,HIPS VO,BK502(HB-PROP				
...3		AA61-60003J	SPRING ETC-CS;-SUS304,-,OD6,N7,OD6,-,				
...3		AA63-00488B	COVER-CONTROL;29M6,ABS,HB,WHT,SVM6145+CL				
...3		AA64-01506D	INLAY-AV;29K3,PVC-SHEET,T0.3,-,P/GRAY,				
...3		AA64-02100B	KNOB POWER;25M6,29M6,ABS,HB,G3676,IVN-11				
..2		AA91-00507A	ASSY HOLDER SPK;-,-,80HM/15W,-,ASSY HOLD				
..2		AA73-00005B	RUBBER-CAP;FLAT,PRJ,SILICONE RUBBER,WHIT				
..2		AA65-30017A	CLAMPER CORE-D,COIL;-NYLON-66,VO,-,NTR,				
..2		AA60-00055C	SPACER-GUM,CRT;ALL MODEL,NTR RUBBER,GRY,				
..2		AA61-00813B	SUPPOT-CRT;25M6,29M6,HIPS,HB,NATURL				
..2		AA61-10054A	BRACKET-CRATER;6277,STS304,T0.5,-,-,-				
..2		AA65-00019A	CLAMPER CORE-D,COIL;25-34,NYLON 66,V2,N				

### ASSY P/MATERIAL

1	*	AA92-03126U	ASSY P/MATERIAL;29M6
..2		AA63-10007C	BAND-PP;W18,CLEA,1G
..2		AA60-40006A	PIN-STAPLE;33X17.8X2.4,H18,33X17.8X2.4

### ASSY CPT

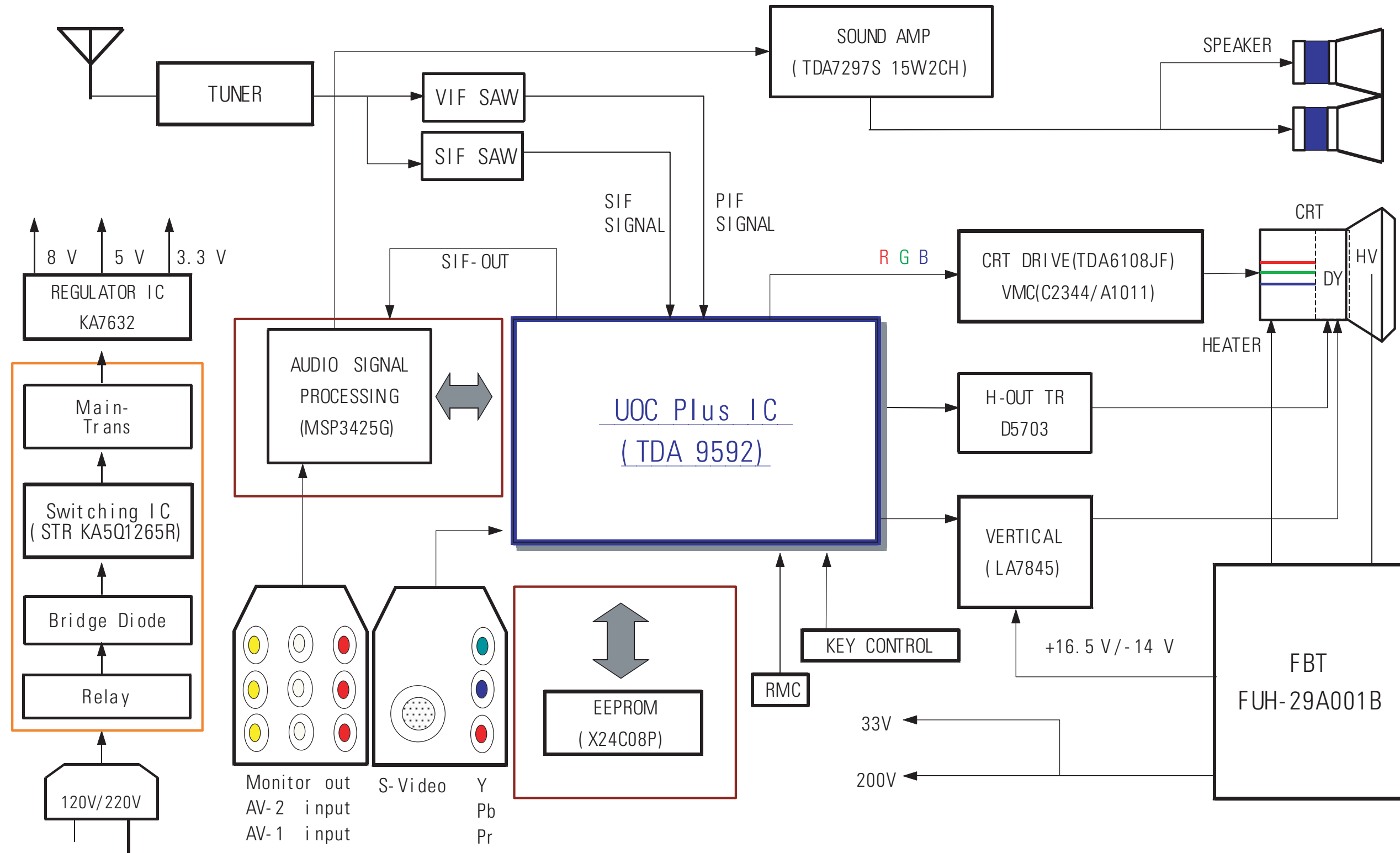
1	*	AA91-03995N	ASSY CPT;A68QCP(+),29,+380MG,ITC,SDI FL
△..2		AA27-20002Q	COIL DEGAUSSING;-29,14ohm,70T,L3300,E
..2		AA91-02173K	ASSY CPT;A68QCP891X100,29,+380MGAA03-00
...3		AA03-00273A	CRT COLOR;A68QCP891X100,+380MG,1.1MH,14.
..2		AA98-70011A	ASSY TBC WIRE(P);-.29INCH,NTSC,PAL,2P-WH
..2		3301-001456	CORE-FERRITE;AE,15°ø7°ø18MM,-,-

### ASSY ACCESSORY

1	*	AA92-06851E	ASSY ACCESSORY;TXM2792FX/XAC
..2		AA68-02519A	MANUAL USERS;TXM2792FFRE,W/P100G,K57A,B
..2		AA68-02477A	MANUAL USERS;TXM2792F,ENG,W/P100,K57A,B5
..2		AA68-00682C	CARD WARRANTY-01;PDP,W/P120(G),SECA,B5,B
..2		AA59-00141D	REMOCON;TM58,SSM174PT,41,SS,L/GRAY,MBR,
...3		2802-000194	RESONATOR-CERAMIC;8MHz,1.0%,TP,8.5x4.5x5
...3		AA09-00052A	IC MICOM;Z86L8808SSC-R5019,2-3.9V,REMOCO

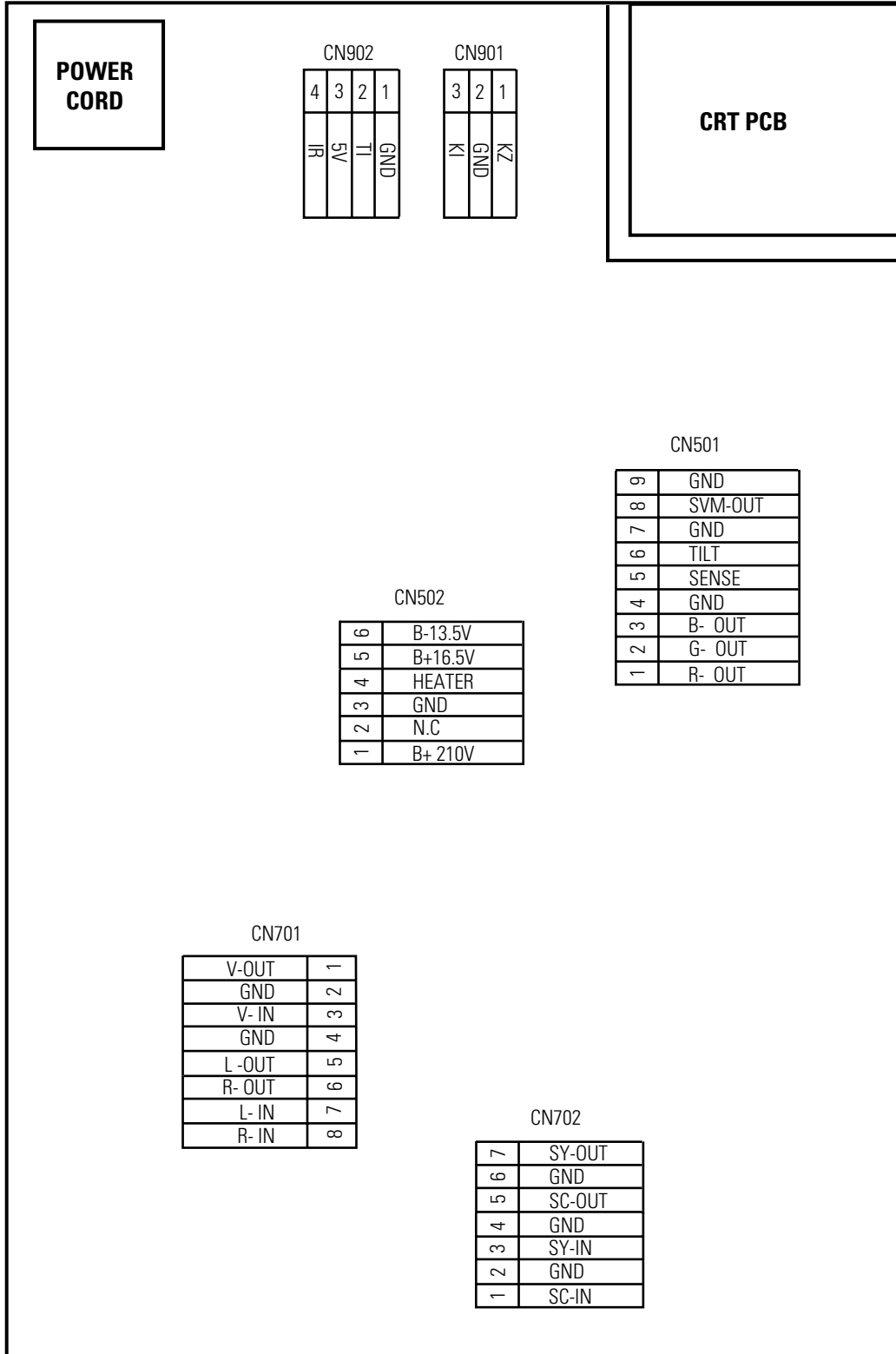
## 8. Block Diagram

### 8-1 K57A



## 9. Wiring Diagram

### 9-1 K57A

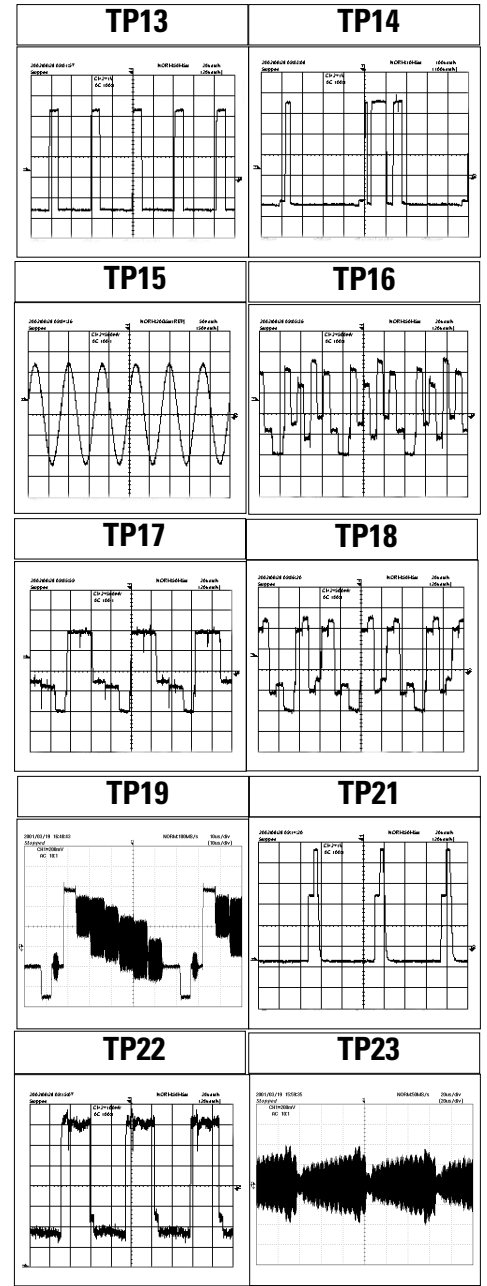
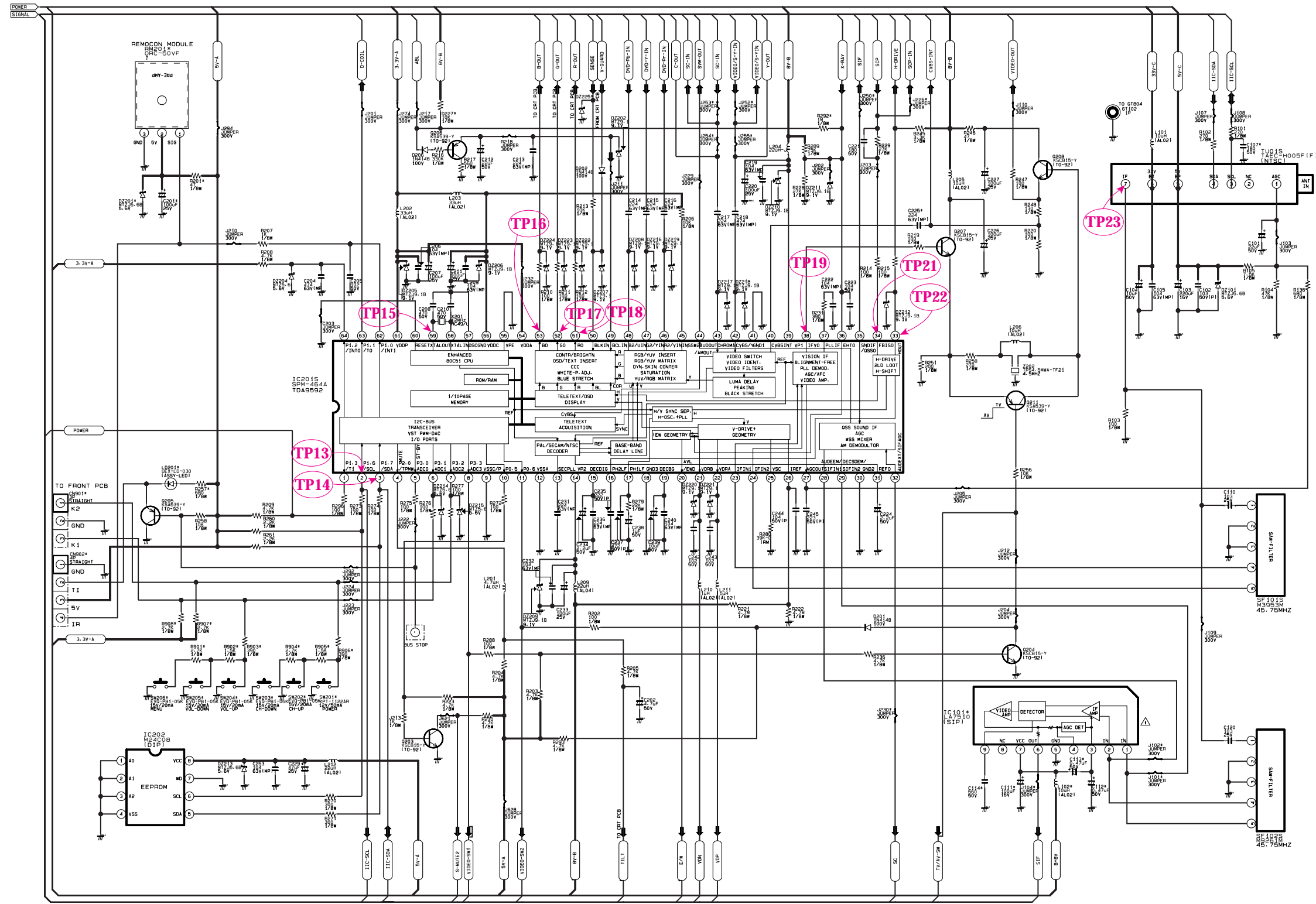




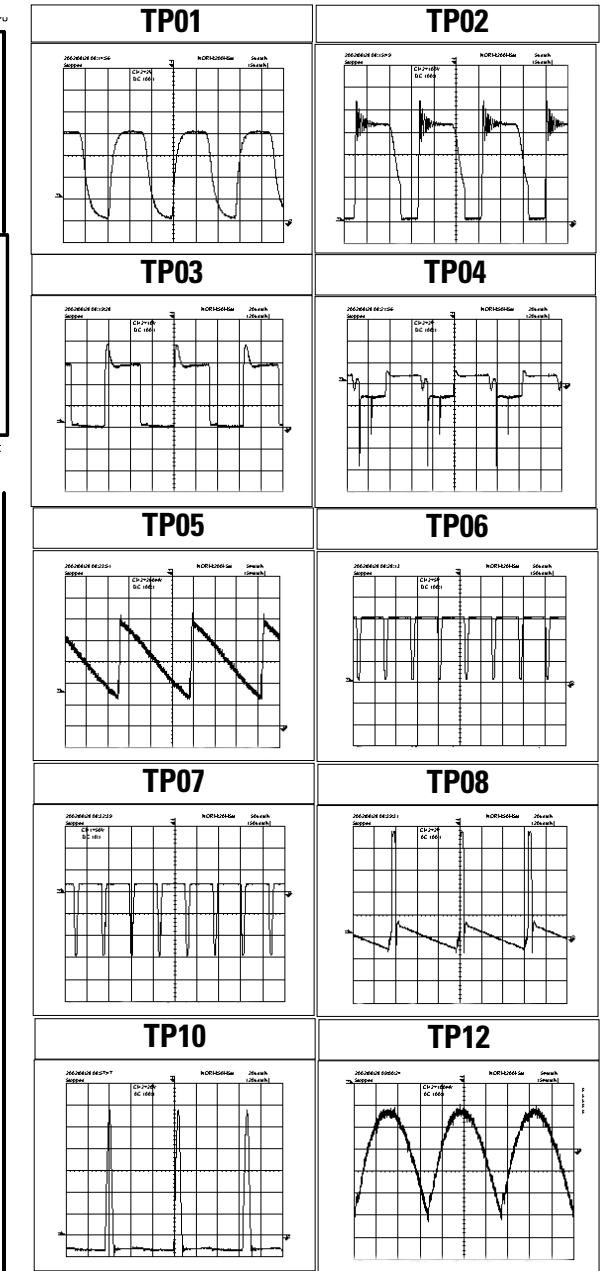
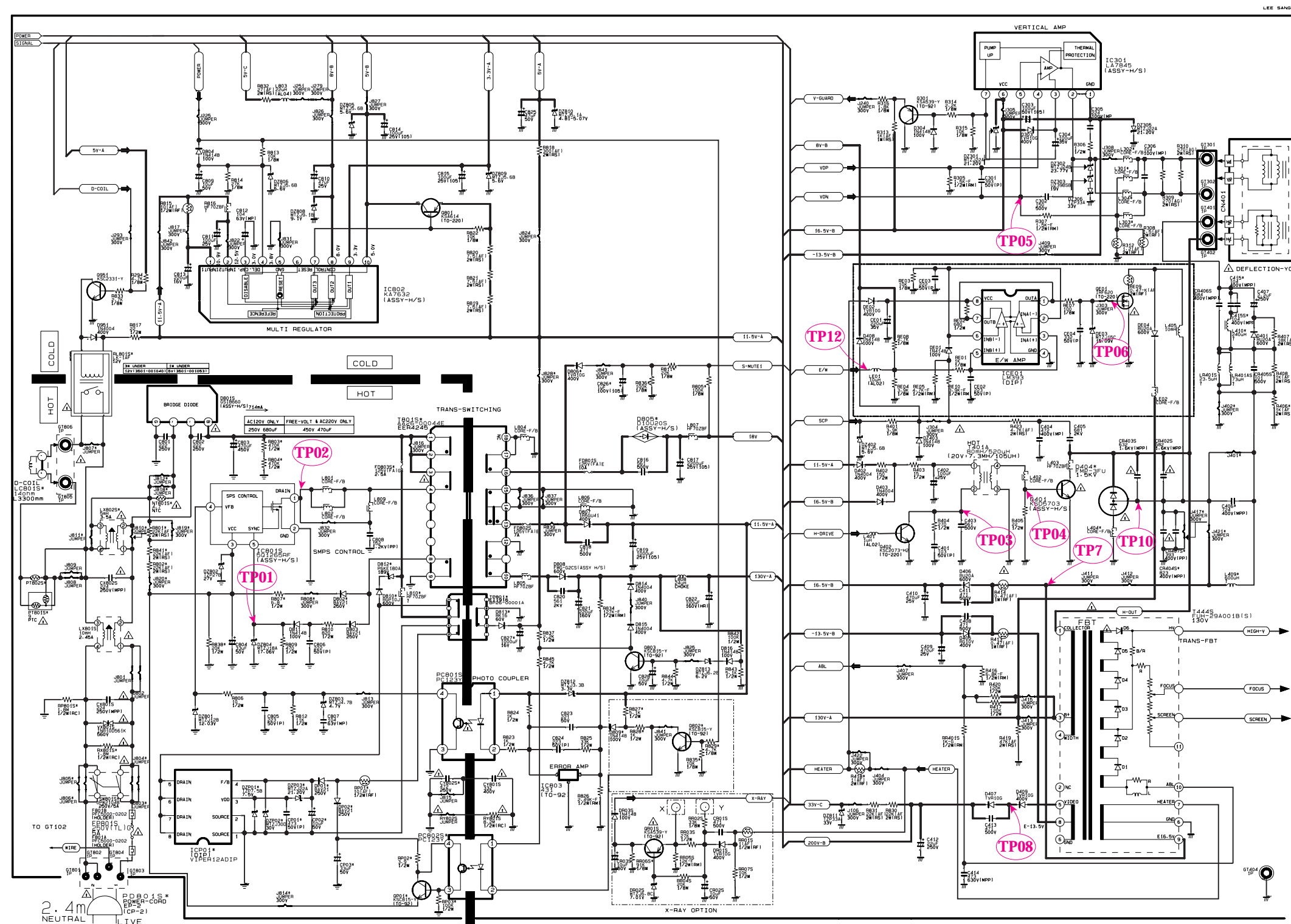
# MEMO

# 10. Schematic Diagrams

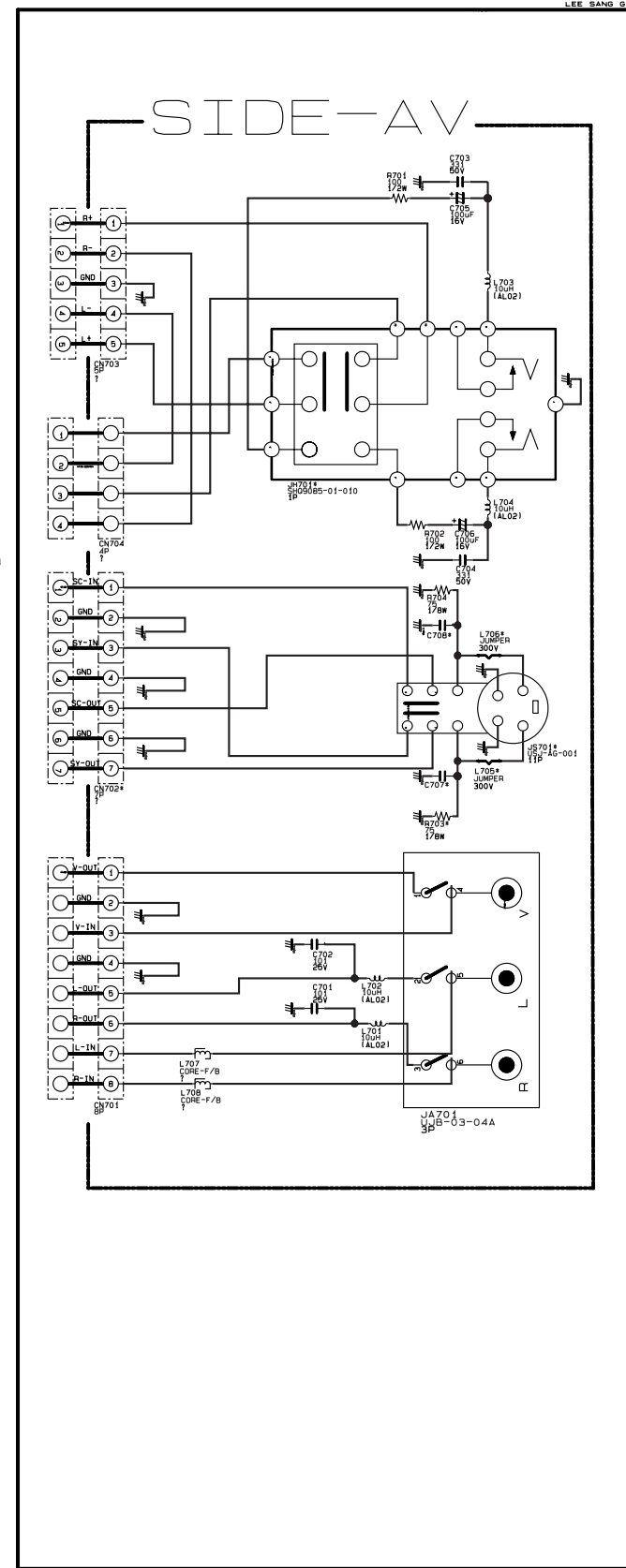
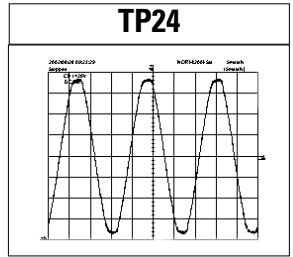
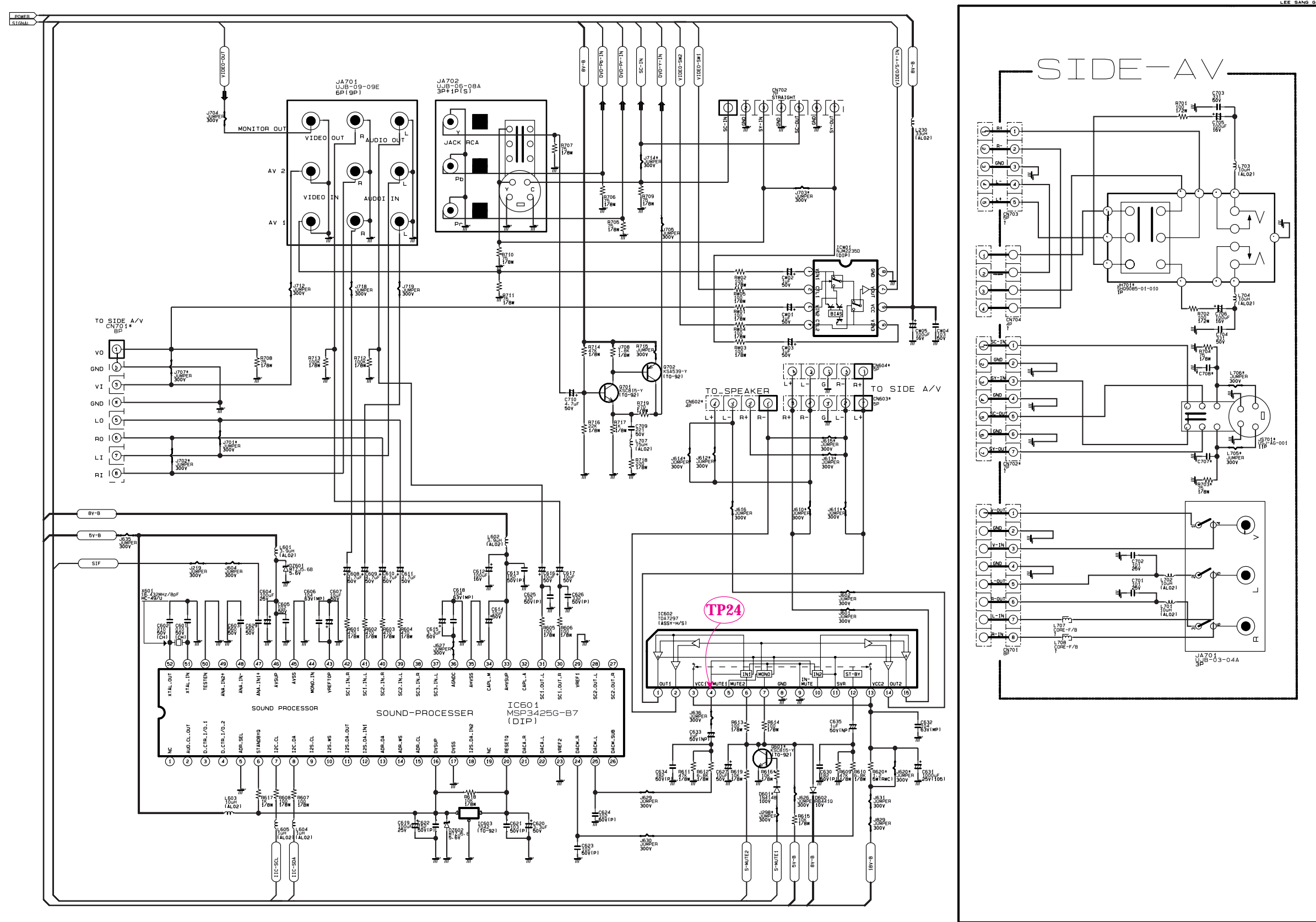
## 10-1 MAIN(1/3)



10-2 MAIN(2/3)



10-3 MAIN(3/3)



10-4 CRT

