

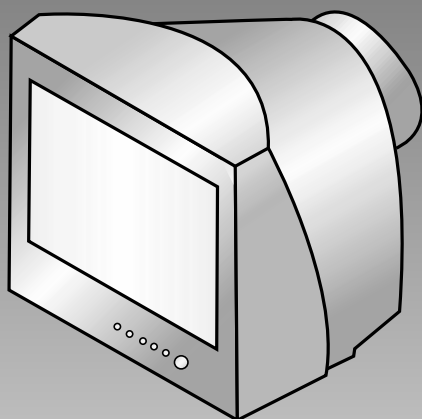


# COLOR TELEVISION RECEIVER

Chassis : KS1B  
Model : CS21K3DX/BWT,VWT,NWT  
CS21K2DX/BWT,VWT,NWT

# ***SERVICE*** Manual

## COLOR TELEVISION RECEIVER



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**ELECTRONICS**

# 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.

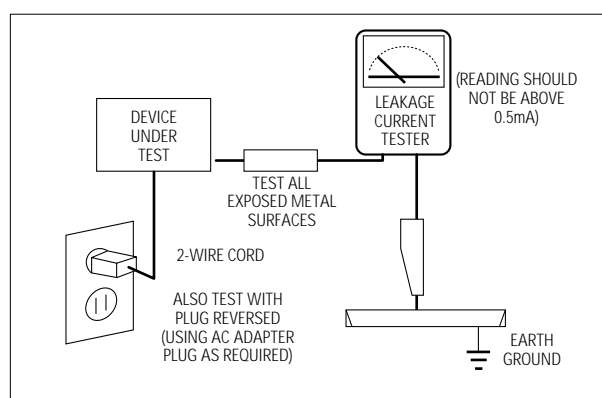




Fig. 1-1 AC Leakage Test

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.

## 2. Specifications and IC Data

### 2-1 Specifications

Television System:

MODEL	SYSTEM
CI	PAL-I (UHF)
CII	PAL-I (VHF/UHF)
CX	PAL-B/G, SECAM-B/G
CK	PAL-B/G, D/K, SECAM-B/G, D/K
CW	PAL-B/G, D/K, SECAM-B/G, D/K, NT 4.43
CS	PAL-B/G, D/K, SECAM-B/G, D/K, NT4.43, NT3.58

Channels:

System Band	PAL/SECAM-B/G,I	PAL, SECAM- D/K	SECAM-K1, PAL-D	NTSC - M
VHF	2 - 12	1 - 13	2 - 9	2 - 13
UHF	21 - 69	21 - 69	13 - 57	14-69

Intermediate Frequencies (MHz) :

SYSTEM IF Carrier Frequency	PAL/ SECAM- B/G	PAL/SECAM-D/K, SECAM-K1	PAL - I	NTSC - M
Picture IF Carrier	38.90	38.90	38.90	45.75
Sound IF Carrier	33.40	32.40	32.90	41.25
Color Sub Carrier	34.47	34.47	34.47	42.18

Picture Tube:

21 Inch      A51QDX991X101	Quick start, in-line-gun, Black stripe, 90°degree deflection
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Power Requirements:

AC 100~240V, 50/60Hz

Antenna Input Impedance:

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

Speaker Impedance

8 ohm, 5W+5W (Dual Type)  
8 ohm, 3W (Monitor Type )

## 2-2 IC Line Up

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Table 2-1 IC Line-Up			
Loc. No	Specification	Description	Remark
HC101	PAP103	IF PRE-AMP	
IC201S	SPM802ER	TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal	Philips
	SPM802ERN	W/O TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal	
IC301	LA7845	VERTICAL OUTPUT	Sanyo
IC501	TDA6107Q	RGB DRIVE AMP	Philips
IC602 IC603	TDA8944 TDA8943	SOUND-AMP (5W x 2CH) SOUND-AMP (3W x 1CH)	Philips
IC801S	KA5Q1265R	POWER IC (STR)	
IC802	KA7632	CUSTOM REGULATOR (5V, 8V, 3.3V)	SEC
IC202	24C08/KS28C040	EEPROM	
PC801S	TCET1108 / LTV817B	PHOTO COUPLER	
IC101	U4468B	SIF - IC	TEMIC



## 2-3 Semiconductor Base Diagrams

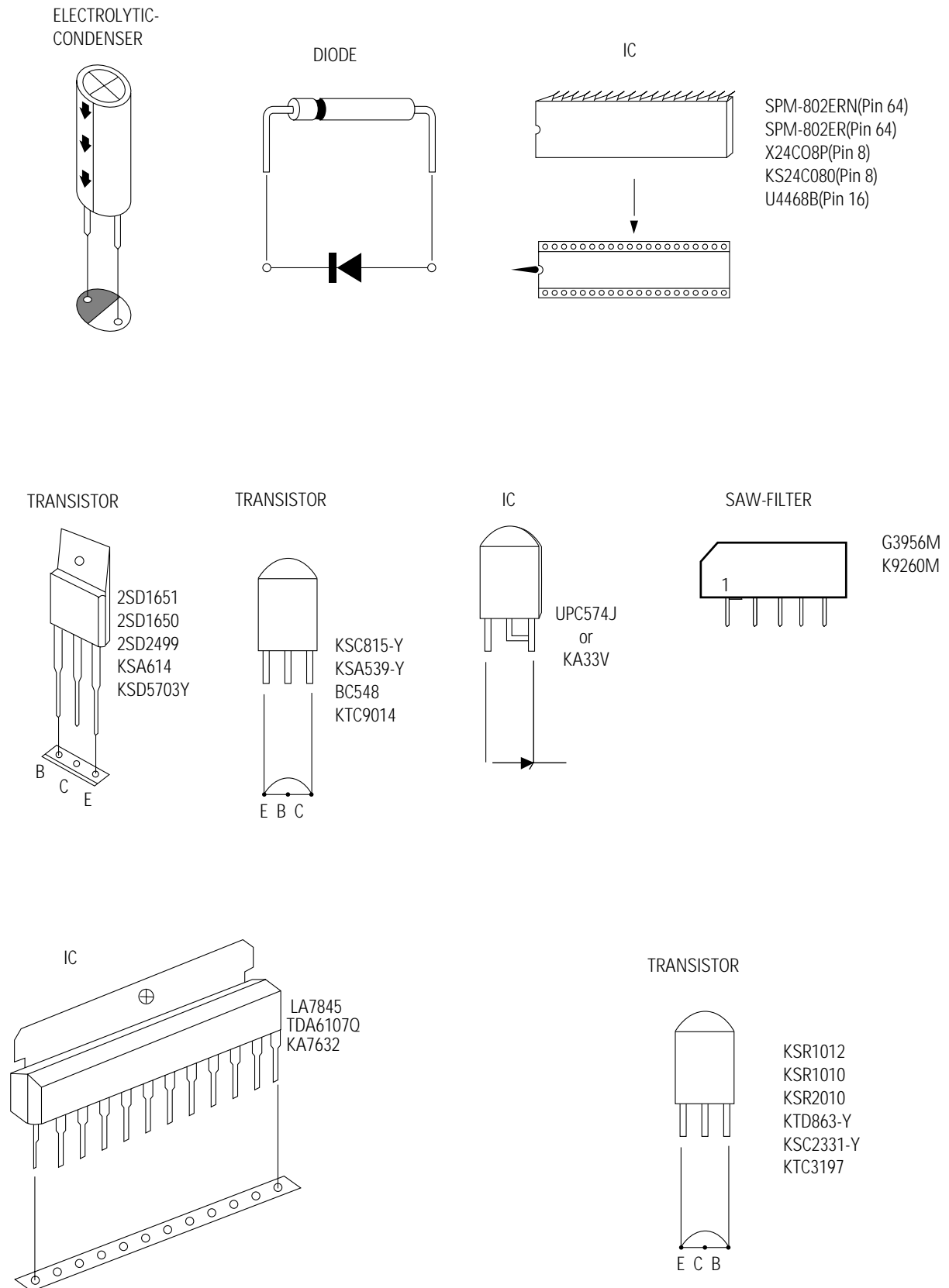


Fig. 2-1 Semiconductor Base Diagrams

# MEMO

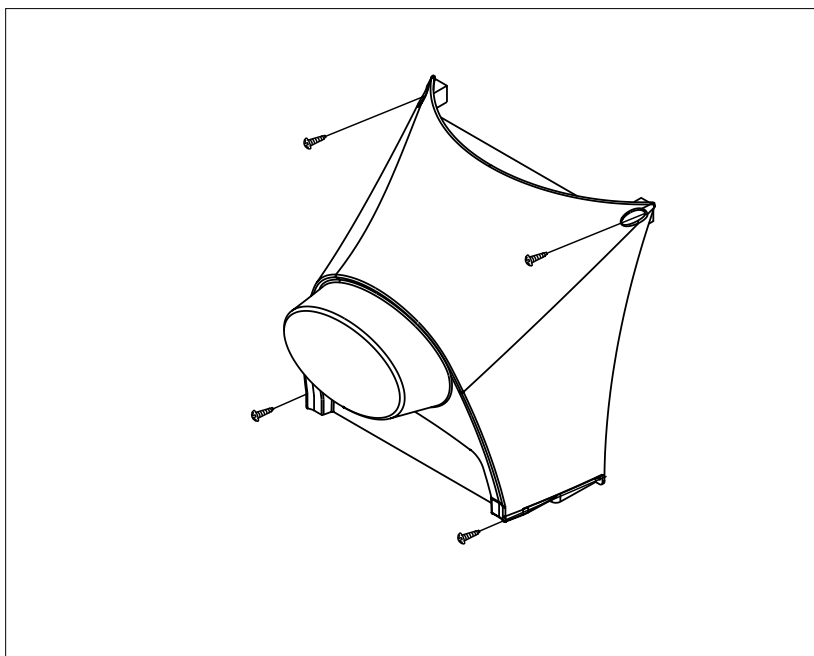
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## 3. Disassembly and Reassembly

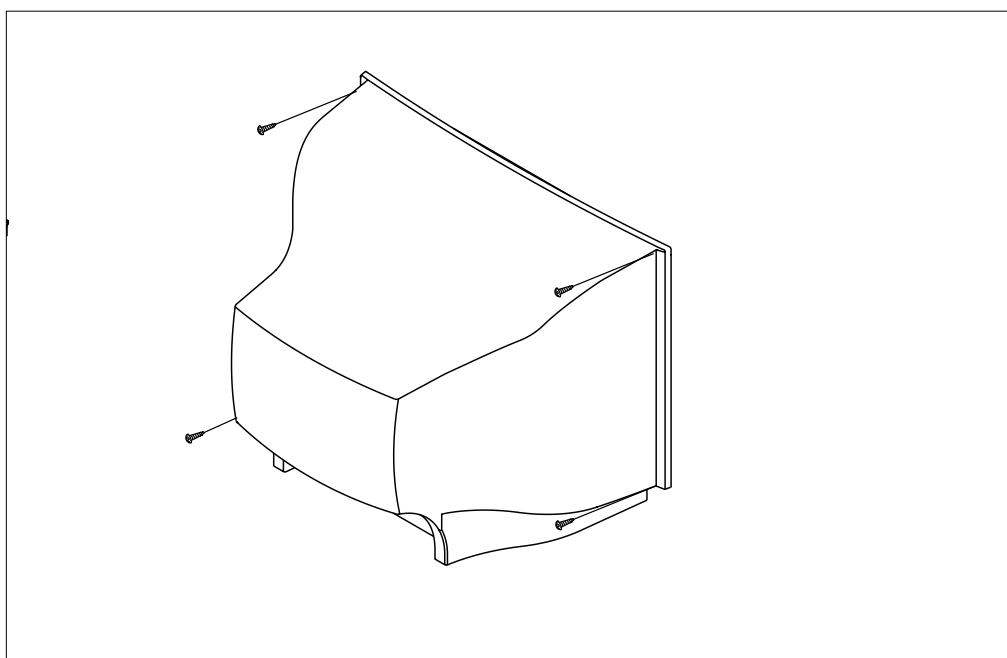
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### 3-1 Back Cover Removal

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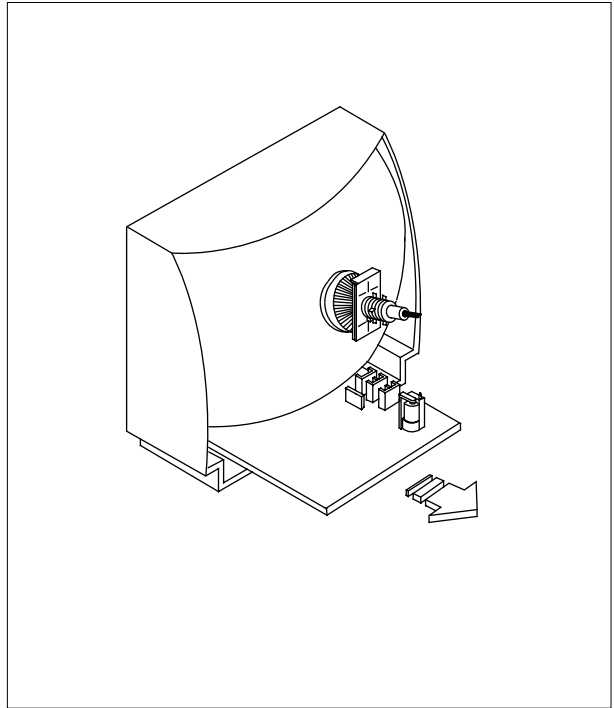
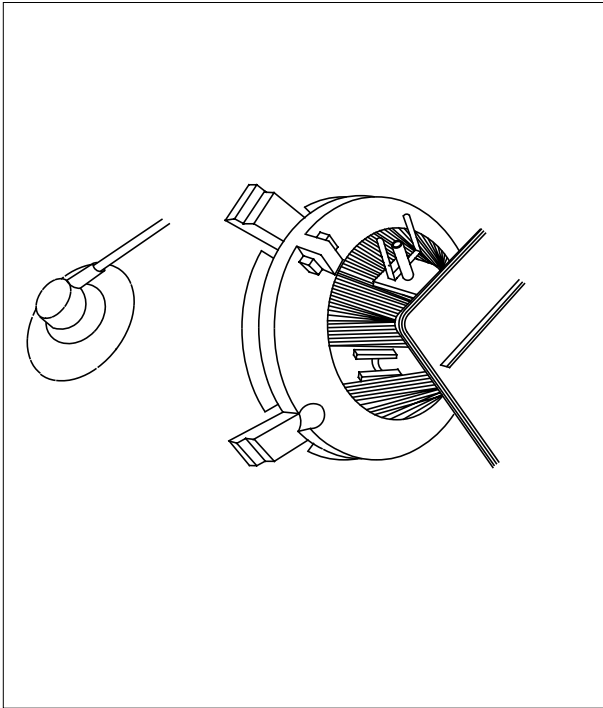


1. After removing the screws, press the tension rib and pull the cabinet backwards.
2. To reassemble, press the tension rib (see diagram).



## 3-2 Main Board Removal

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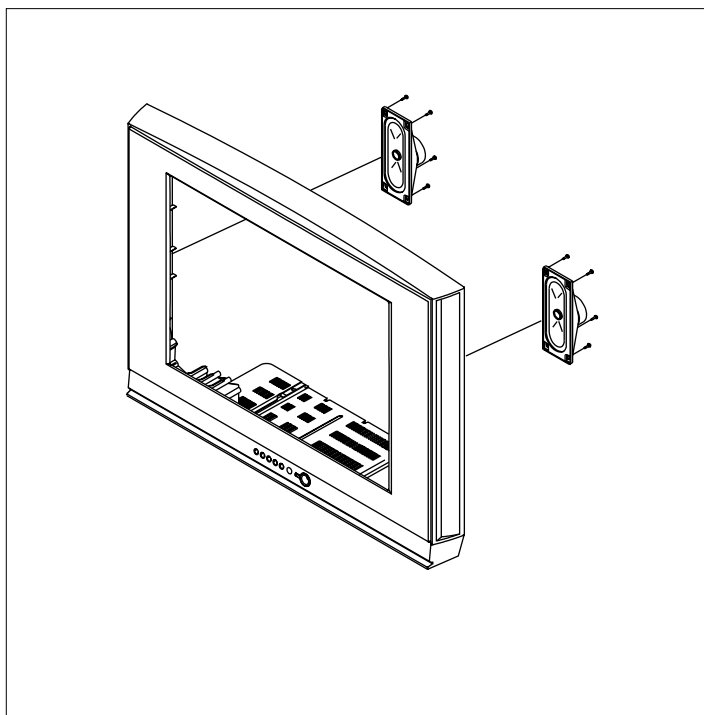


1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

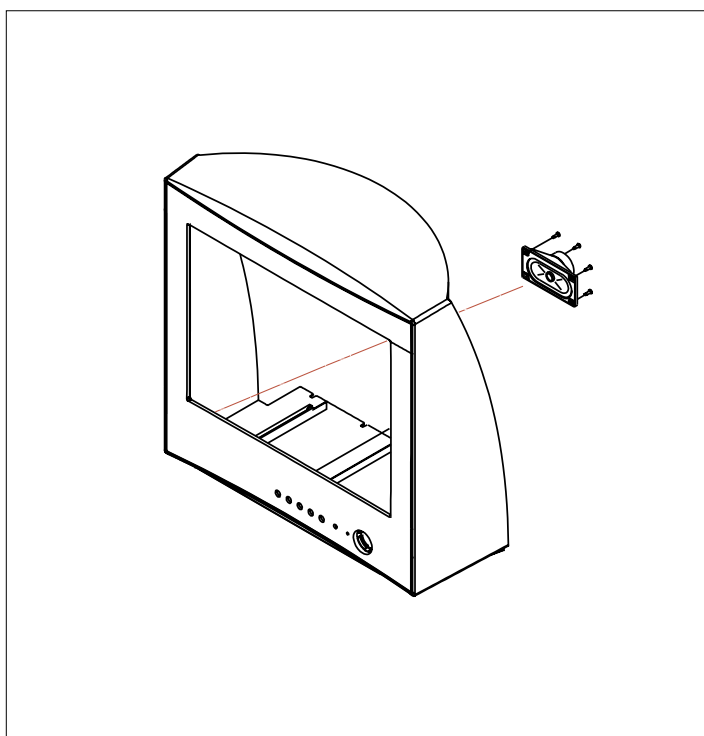
**Warning:** The FBT is charged with high voltage.  
Before removing the Anode Cap, discharge the voltage  
through one of the heat sinks on the main board.

### 3-3 Speaker Removal

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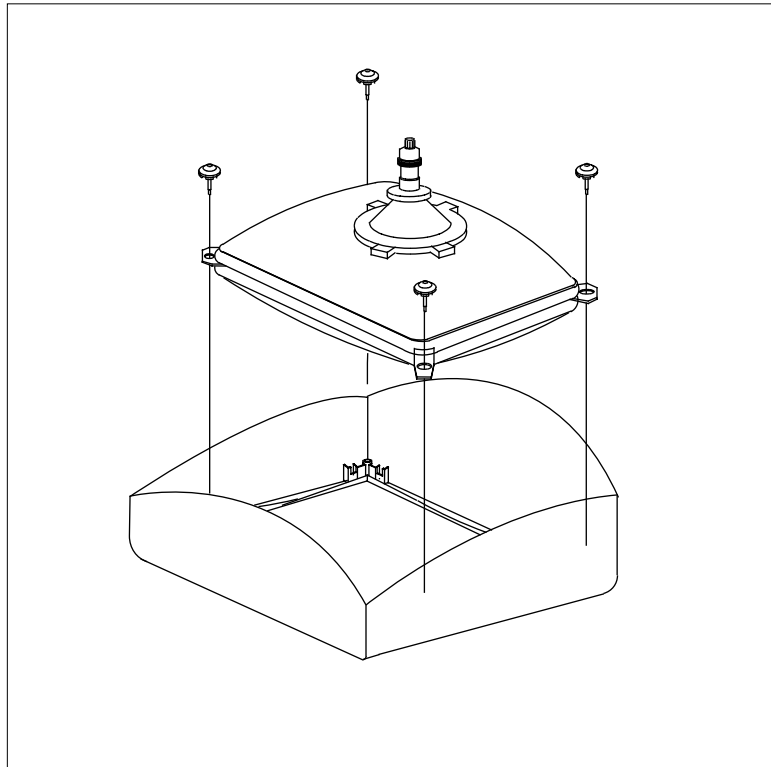
1. Remove the speaker by pressing the tension rib.



1. Remove the screws.
2. 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.

## 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, set PVA to 40 (factory mode) and set SC as follows.

14 inch : 0  
20 inch : 9  
21 inch : 9  
21 inch Flat : 10

## 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→ DISPLAY→ MENU→ MUTE →POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: ADJUST, OPTION and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys ( Up or Down). 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>SDL>STT>SSP>PDL>  
NDL>PSR>NSR>AGC>VOL>LCO>TXP

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

OSD	FUNCTION	RANGE	INITIAL DATA	REMARK
SCT	Sub Contrast	0 ~ 23	13	
SBT	Sub Brightness	0 ~ 23	9	
BLR	Black Level offset Blue	0 ~ 15	9	
BLB	Black Level offset Red	0 ~ 15	7	
RG	Red Gain	0 ~ 63	32	
GG	Green Gain	0 ~ 63	25(Fix)	
BG	Blue Gain	0 ~ 63	31	
VSL	Vertical Slope	0 ~ 63	19	
VS	Vertical Shift	0 ~ 63	38	
VA	Vertical Amplitude	0 ~ 63	40(Fix)	
HS	Horizontal Shift	0 ~ 63	30	
SC	S-Correction	0 ~ 63	9	
CDL	Cathode Drive Level	0 ~ 15	9	
STT	Sub Tint	0 ~ 7	3	
SSP	Sub Sharpness	0 ~ 7	0	
PDL	PAL Delay	0 ~ 15	15(Fix)	
NDL	NTSC Delay	0 ~ 15	10	
PSR	PAL Sub color	0 ~ 23	2	
NSR	NTSC Sub color	0 ~ 23	5	
AGC	Automatic Gain Control	0 ~ 63	23	
VOL	Volume pre setting	0 ~ 63	10	
LCO	SECAM-L Vision IF	0 ~ 1	0	
TXP	TTX Position	0 ~ 15	9	

NOTE : PVS,PVA, PHS, parameters must be aligned using the 50Hz vertical-field rates.



### 4-2-3 Option Bytes

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

Option Table : xx xx xx xx

1	LNA	ON
2	SYSTEM	CZ
3	AUDIO	MONO
4	JACK	RCA
5	ZOOM	NOR/ZOOM/16:9
6	AUTO POWER	ON
7	SBL	OFF
8	2nd SIF	ON
9	HOTEL MODE	OFF
10	BKS	ON
11	HIGH DEVIA	OFF

#### 4-2-4 RESET

The Reset Mode is used during factory inspection.  
Function Reset:

1. Picture	Custom
2. Auto Volume	Off
3. Color System	Auto (option)
4. Sound System	D/K (option)
5. Blue Screen	Off
6. Low Noise AMP	Off (option)
7. Volume	10
8. CH. Skip	Erased
9. CH. Lock	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 +125 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 30KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30KV 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. Connect CRT socket pin GK to an oscilloscope probe.
2. Input a gray scale pattern. (Use a pattern generator, PM5518)
3. Use the P mode key (on the remote control) for the STANDARD picture.
4. Adjust the Screen VR (on the FBT) so that the voltage on the oscilloscope becomes  $125 \pm 2.5V$  (See Fig. 4-1).

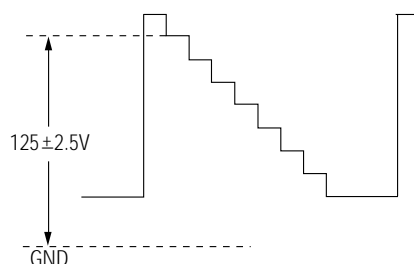


Fig. 4-1

### 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.

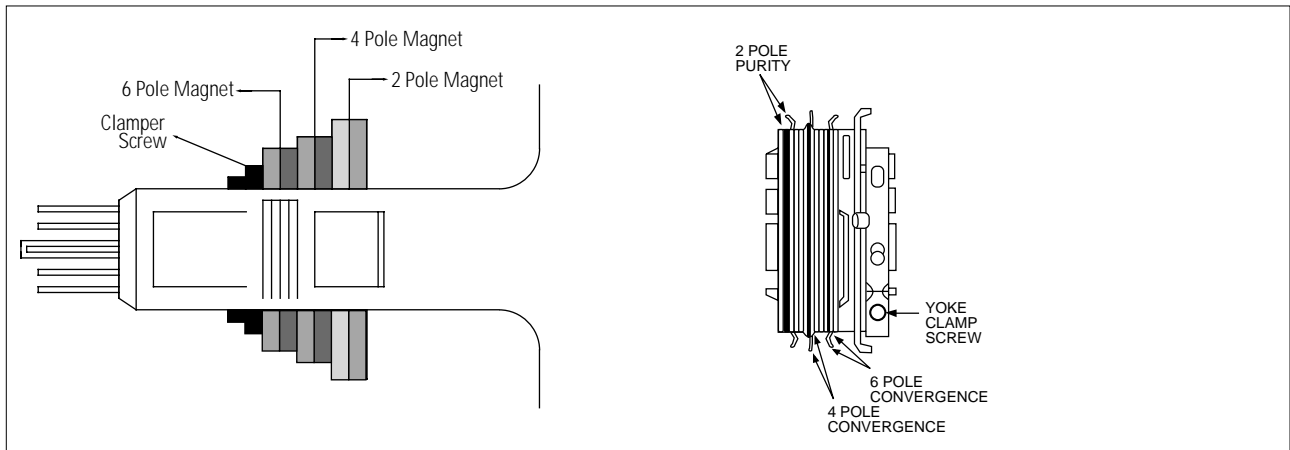


Fig. 4-2 Convergence Magnet Assembly

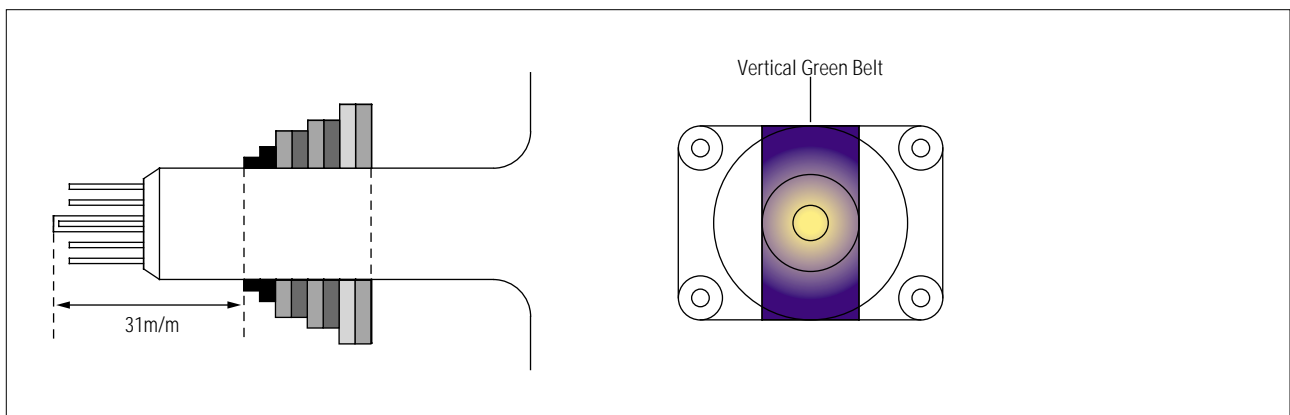


Fig. 4-3 Center Convergence Adjustment

### 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  $2.5 \pm 0.5$  fL in the Factory Service Mode with using CA100. See Fig. 4-4 ②.
2. Adjust RG,BG so that the levels are suitable to each local area.

#### (c) High-Light Adjustment

1. Set SCT to 50 FL (21" Flat) in the Factory Service Mode with using CA100. See Fig. 4-4 ①.

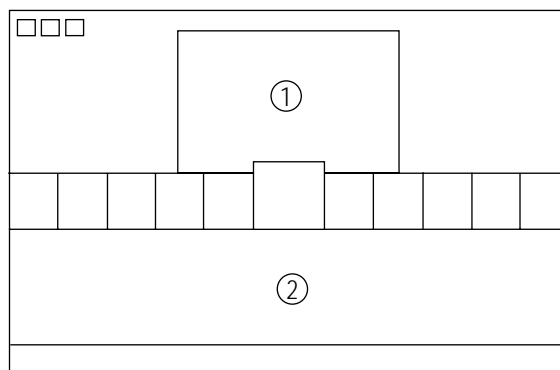


Fig. 4-4

### 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).

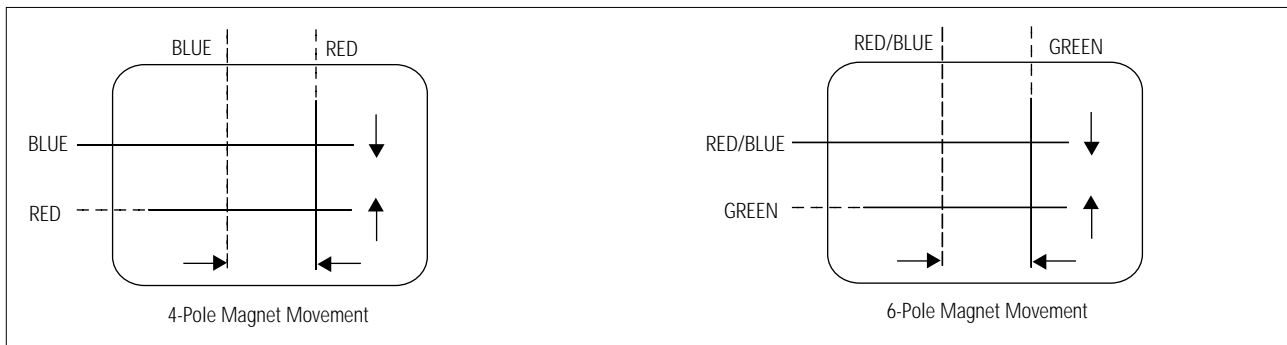


Fig. 4-5 Center Convergence Adjustment

### 4-3-9 RF AGC Adjustment

Set the AGC data to 23 (Factory Mode).

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

Set  $\frac{PSR}{NSR}$  data to  $\frac{2}{5}$  (Factory Mode).

### 4-3-11 Geometry Adjustment

SC → VS → VSL → HS

1. Input a lion head pattern (in the PAL channel).
2. Set the SC (S-Correction) as follows :  
10(21" Flat) , 9 (21"), 9 (20"), 0 (14")  
and VA 40 so that the lion  
head circle becomes oval.
3. Adjust with VS (Vertical shift) so that the top  
margin of the picture is 4.

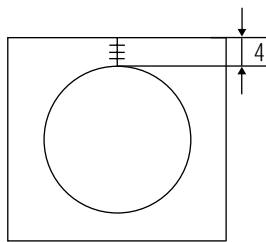


Fig. 4-7

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

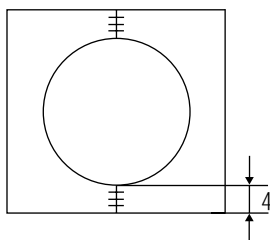


Fig. 4-8

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

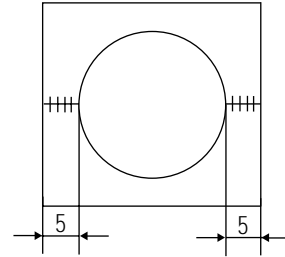
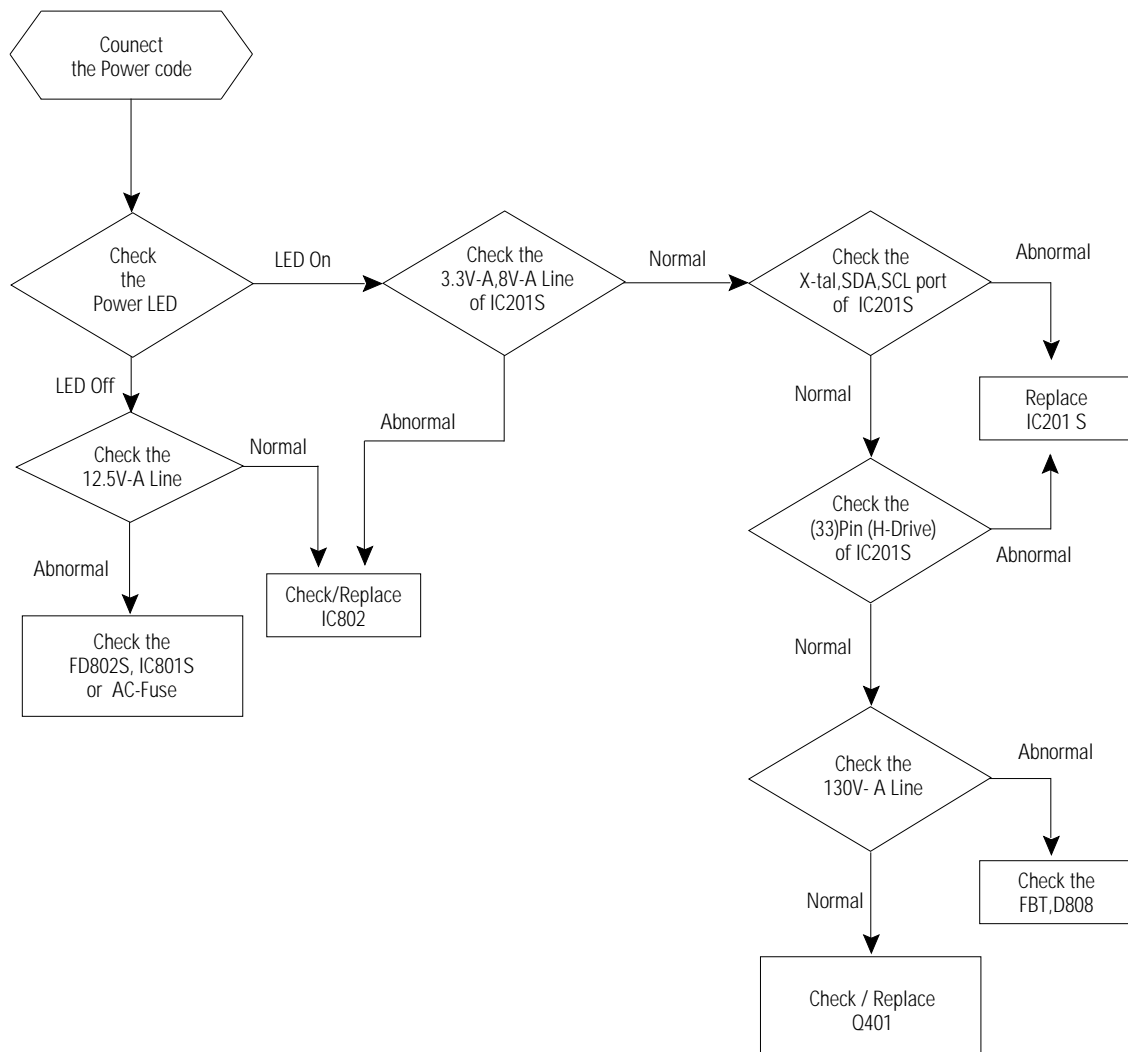


Fig. 4-9

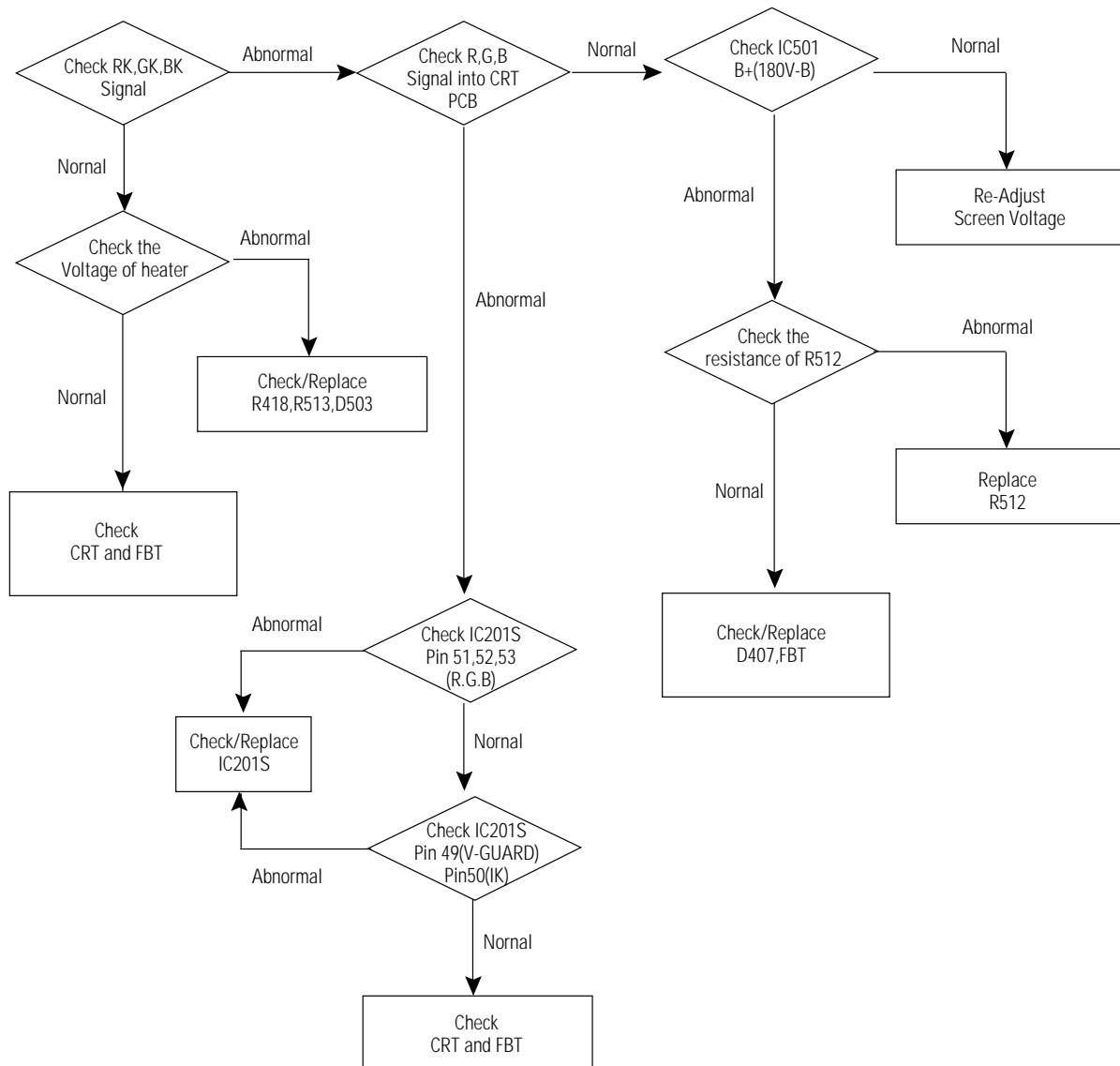
6. Adjust HS (using the width coil) so that the  
left and right margins of the picture are 5.

## 5. Troubleshooting

### 5-1 No Power

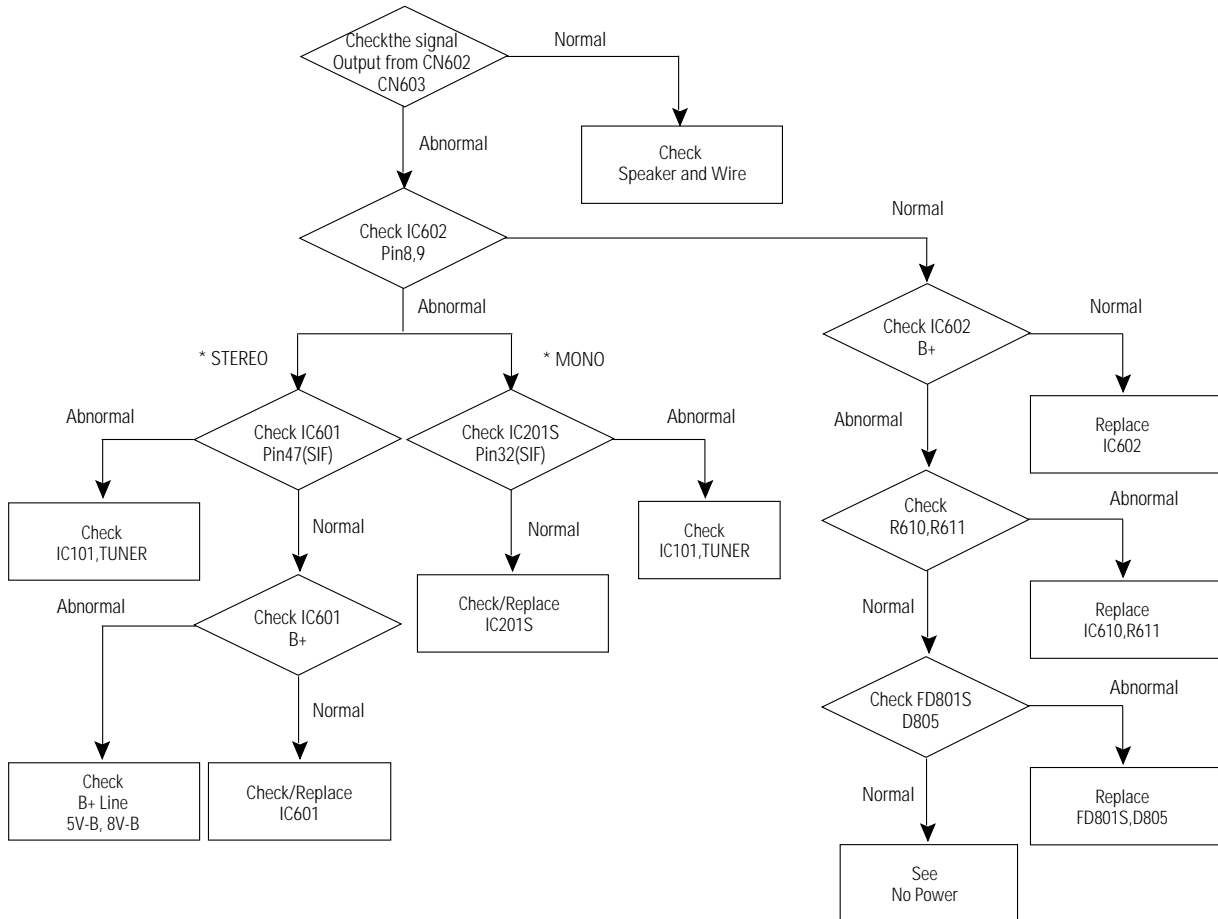


## 5-2 No Video (Sound OK)



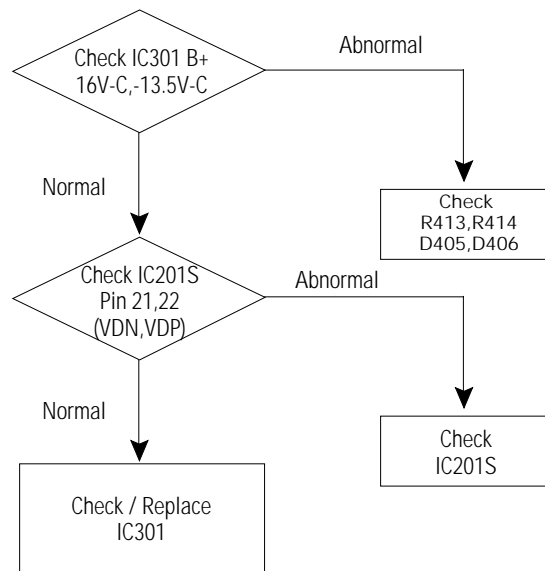


## 5-3 No Sound (Video OK)



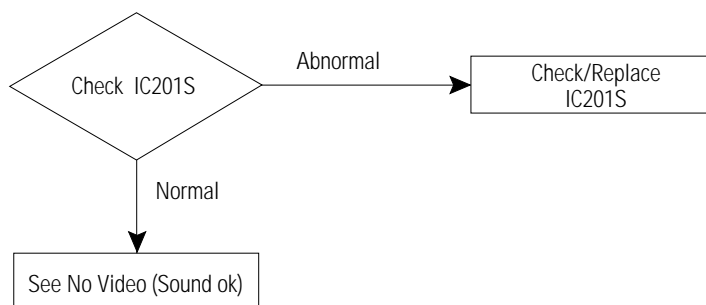
## 5-4 Horizontal Lines Appear on Screen

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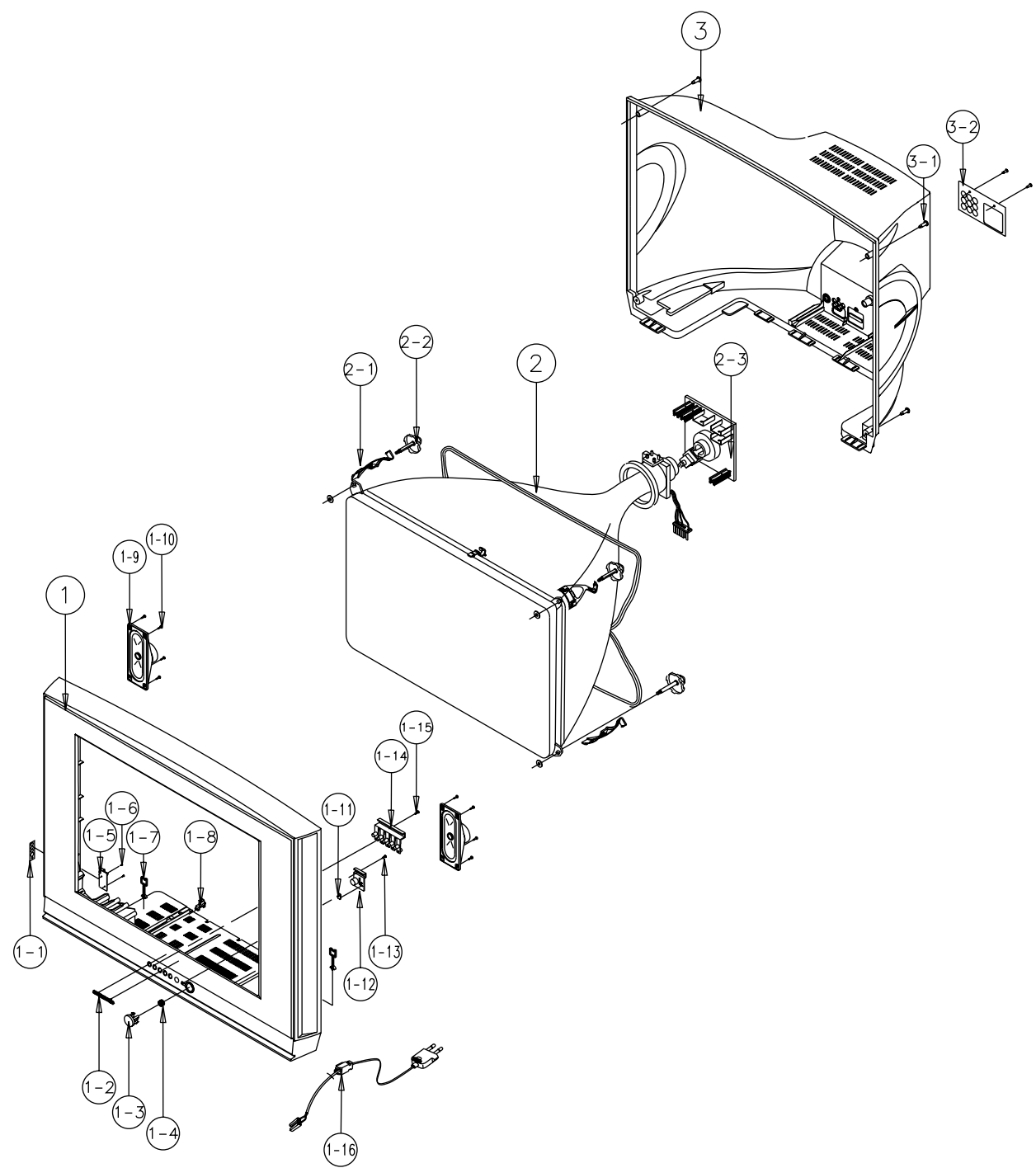
## 5-5 No TTX

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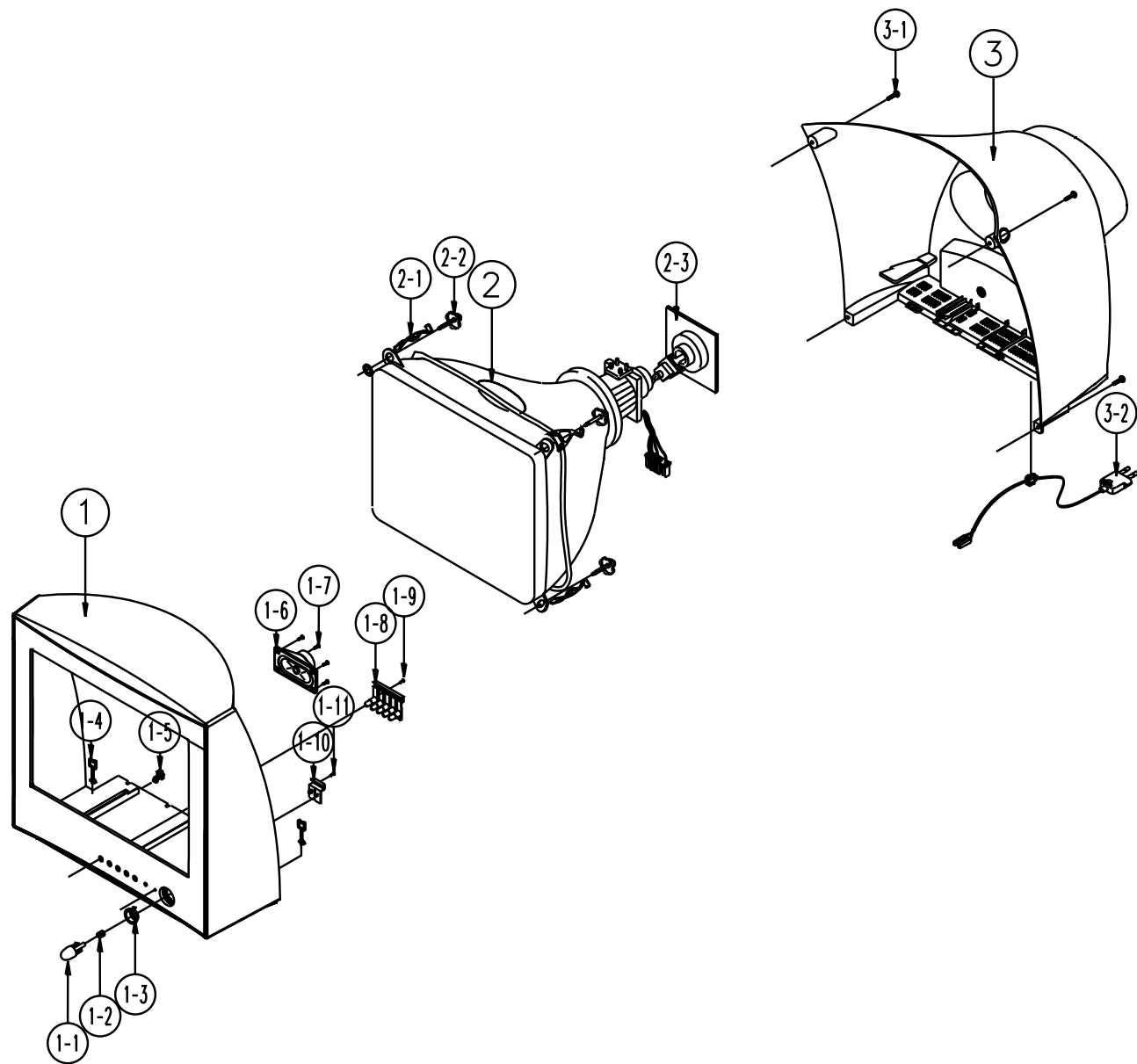
6. Exploded View & Parts List

6-1 CS21K3X/BWT



No	Code No	Description;Specification	Q'ty	Remark	
1	AA91-00590G	ASSY CABINET FRONT;21K3,(SPK)SV012P MPP	1		
	AA64-01487E	CABINET FRONT;21K3,SV012P MPP,HIPS,HB,G7	1		
	1-1	AA64-01309L	INLAY AV;PS SHEET,21D8,T0.3,KS2A M/N P/	1	
	1-2	AA64-70123A	BADGE-BRAND;AL,SAMSUNG,SILVER,L=50,FLAT,	1	
	1-3	AA64-01434B	KNOB POWER;29K3,ABS,-,G3676,SV012P NO-SI	1	
	1-4	AA61-60003J	SPRING-CS;- ,SUS304,0.5,OD6,H12,N7,-,-,-	1	
	1-5	AA95-00793A	ASSY-PCB,A/V SIDE;- ,CT-29H1D,KS2A,MONO,-	1	
	1-6		PCB-SCREW	2	
	1-7	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	1	
	1-8	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
	1-9	AA96-00358E	ASSY SPEAKER;- ,8ohm,5W,3001-000274,400/6	2	
	1-10	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	8	SPK+CF
	1-11	AA64-01436B	INDICATOR LED;29K3,ACRYL,-,CLR,-,-,-	1	
	1-12	AA64-01435B	WINDOW REMOCON;29K3,PC,-,-,-,V0,VIOLET,-	1	
	1-13	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	CF+WR
	1-14	AA64-01437B	KNOB CONTROL;21,29K3,ABS,G3676,SV012P,HB	1	
1-15	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	CF+KC	
1-16	AA96-20109C	ASSY-POWER,CORD;- ,CP2/NO(4.0),H/C300,KKP	1		
2	AA03-00257A	CRT COLOR;A51QDX991X101,380MG,1.85MH,18.	1		
	2-1	AA65-00009B	CLAMP-D,COIL;NYLON 66,V0,-,-,21A8,-	4	
	2-2	AA60-10050R	SCREW-ASSY;- ,SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
	2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
3	AA64-01854C	CABINET-BACK;21K3,HIPS V2,BLK	1		
	3-1	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
	3-2	AA64-00892D	INLAY BACK;D2,RCA4P,PS SHEET,T0.3,BLK,-,	1	

6-2 CS21K2X/NWT



No	Code No	Description;Specification	Q'ty	Remark
1	AA91-00702A	ASSY CABINET FRONT;21K2,(SPK)SV012P MPP	1	
	AA64-01699B	CABINET FRONT;21K2,SV012P MPP,HIPS,HB,G7	1	
1-1	AA64-01701B	KNOB POWER;21K2,ABS,G3676,SV104M+W971,HB	1	
1-2	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	1	
1-3	AA64-01697B	DECORATION-POWER;15K2,PC,SEMI-VIOLET	1	
1-4	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	2	
1-5	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
1-6	AA96-00663A	ASSY SPEAKER;-;8OHM,3W,3001-001020,300M/	2	
1-7	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	4	SPK+CF
1-8	AA64-01702B	KNOB CONTROL;21K2,ABS,G3676,SV104M+W971,	1	
1-9	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	1	KC+CF
1-10	AA64-01694B	WINDOW REMOCON;15K2,ACRYL,CLR	1	
1-11	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	1	WIN+CF
2	AA03-00257A	CRT COLOR;A51QDX991X101,380MG,1.85MH,18.	1	
2-1	AA65-00009B	CLAMP-D,COIL;NYLON 66,V0,-,-,21A8,-	4	
2-2	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+,WC,-	4	
2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
3	AA64-01700B	CABINET BACK;21K2,HIPS,V2,BLK	1	
3-1	AA60-10050T	SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
3-2	AA96-20109C	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C300,KKP	1	

## 7. Electrical Parts List

### 7-1 CS21K3DX/BWT

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY PCB MAIN(OPT)</b>					...	L808	AA27-00098A	COIL CHOKE:-,24uH,10%,-.0,1,3,0A,DR10X	
1	*	AA94-03660A	ASSY PCB MAIN(OPT);CS21K3DX/BWT,KS1B,RUS		△	L201	AA96-00555A	ASSY LED GUIDE:-,UEX-LD-030,GREEN	S.N.A
..2	C/W	AA65-30018A	CLAMP-WIRE:NYLON-66,-,DATL-600,DONG-A,	S.N.A	△	LX801S	AA29-30002F	FILTER-LINE NOISE:-,6mH,2.45A,-	
..2	CN501	AA39-20604A	LEAD CONNECTOR:ASSY,-,5/4PYBNH250-09,YBN		△	NT802S	1404-001045	THERMISTOR-NTC:4.7ohm,15%,2900K,35.0mW,T	
..2	D404	0402-001296	DIODE-RECTIFIER:FMP-3FU,1.5KV,5A,TO-3PF,		△	PC801S	0604-001038	PHOTO-COUPLER:TR,130-260%,200mW,DIP-4,ST	
..2	D805	AA96-00243D	ASSY H/S:-,BRIDGE,AA62-00045A,D06U20S,D	S.N.A	△	PT801S	1404-001156	THERMISTOR-PTC:90HM,+.30%/-.20%,220V,RMS,27	
...		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	...	RM201	AA59-60001U	MODULE-REMOCON:-,ORC-50VF/SR-12V,38KHz,9	
...		0402-001374	DIODE-RECTIFIER:FFPF06U20S,200V,6A,TO-22		△	SF101S	2904-000302	FILTER-SAW AV:38.9MHz,SIP5K,ST,15.4dB,B/	
...		6003-000335	SCREW-TAPTITE:RH,+.2S,M3,L8,ZPC(YEL),SWR		△	SF103S	2904-001024	FILTER-SAW AV:38.9MHz,SIP5K,TP18.3dB,PA	
...		AA62-00045A	HEAT SINK-PS:-,T1.0,-,DREAM,-,---		△	SW801S	3403-001107	SWITCH-PUSH:250V,5A,DPST,-,KDC-A04	
..2	IC301	AA96-00623A	ASSY H/S:-,POWER,AA62-00056A,LA7845		△	T401A	AA26-50001R	TRANS-HORIZ.DRIVE:-,80MH,520UH,4UH,G11A	
...		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	△	TU01S	AA40-00067A	TUNER-TAEL-G671D,-,PAL,181CH,38.9MHz	
...		1204-000517	IC-VERTICAL DEF:LA7845,SIP,7P,-,PLASTIC		△	V999S	3704-001105	SOCKET-CRT:11P,20PI,26.5PI,NJ,-	
...		6003-000335	SCREW-TAPTITE:RH,+.2S,M3,L8,ZPC(YEL),SWR		...		AA99-10214P	ASSY-PCB MAIN,AUTO: AA99-30220L ,/V	S.N.A
...		AA62-00056A	HEAT SINK-PS:-,T1.0,-,41*35*70,D2,-,		...	C101	2401-000962	C-AL:22uF,20%,50V,GP,TP5x11.5	
..2	IC602	AA96-00244G	ASSY H/S:-,AUDIO,AA62-00046A,TDA8944J,B		...	C102	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm	
...		AA62-00046A	HEAT SINK-PS:-,T1.0,-,D1(DREAM) 60X25X		...	C103	2401-002594	C-AL:220uF,20%,16V,GP,TP,8x11.5,5	
...		AA61-10162B	BRACKET-IC:-,SBHG-1,T1.0,-,---,100	S.N.A	...	C104	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11.5	
...		6003-000335	SCREW-TAPTITE:RH,+.2S,M3,L8,ZPC(YEL),SWR		...	C105	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
...		1201-001741	IC-AUDIO AMP:TDA8944J,DBS,17P;937MIL,DUA		...	C106	2401-002619	C-AL:47uF,20%,25V,GP,TP5x11.5	
...		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	...	C109	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
△	IC801S	AA96-50373H	ASSY H/S:-,POWER,AA62-30181K,5Q1265RT		...	C110	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
...		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	...	C114	2401-001496	C-AL:47uF,20%,16V,GP,TP5x7,5	
...		1203-002257	IC-PWM CONTROLLER:5Q12656RT,TO-220F-5L,5		...	C115	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
...		6003-000335	SCREW-TAPTITE:RH,+.2S,M3,L10,ZPC(YEL),SW		...	C116	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm	
...		AA62-30181K	HEAT SINK-ES:-,AL6063 EXTR.-2,WHT,40MM,-	S.N.A	...	C117	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11.5	
△	JA701	3722-001363	JACK-RCA:4P(9P),3.2MM,NJ,BLK,-		...	C118	2401-000027	C-AL:4.7uF,20%,50V,GP,TP5x11.5	
△	LC801S	AA27-00130A	COIL DEGAUSSING:-,---,40T,9ohm,-,21inc		...	C120	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
△	LR401S	AA27-00160A	COIL LINEARITY:64UH,64UH,L-81 OWA 12X15,		...	C128	2202-000286	C-CERAMIC,MLC-AXIAL:56pF,5%,50V,SL,TP,1	
..2	Q401	AA96-00624A	ASSY H/S:-,POWER,AA62-00057A,KSD5703,WA		...	C201	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
...		AA62-00057A	HEAT SINK-PS:-,T1.0,-,41*20*60,D2,-,		...	C203	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
...		AA60-30001A	WASHER-PLATE:M3,ID3.5,15X8.5,T1.0,-,SBHG	S.N.A	...	C204	2305-000411	C-FILM,MPEF:470nF,5%,50V,TP,7.3x4.8x5.5m	
...		6003-000333	SCREW-TAPTITE:RH,+.2S,M3,L10,ZPC(YEL),SW		...	C205	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
...		0502-001136	TR-POWER:KSD5703,NPN,70W,TO-3PF,ST-8		...	C206	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
...		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	...	C207	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
△	T444S	AA26-00057A	TRANS-FBT:-,FUH-29A001B(S),25/29,130		...	C208	2201-000573	C-CERAMIC,DISC:0.047nF,5%,50V,NPO,TP,5x3	
△	T801S	AA26-00111A	TRANS SWITCHING:CS21S5T,AC160-320V,PM5		...	C209	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
..2		AA65-30111A	CLAMP-WIRE:NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A	...	C210	2201-000573	C-CERAMIC,DISC:0.047nF,5%,50V,NPO,TP,5x3	
..2		AA65-30018A	CLAMP-WIRE:NYLON-66,-,DATL-600,DONG-A,	S.N.A	...	C211	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
..2		AA65-30009A	CLAMP-FBT:ABS,V0,BLK,-	S.N.A	...	C212	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11.5	
..2		AA99-30220L	ASSY-PCB ROBOT: AA94-03660A ,ER	S.N.A	...	C213	2301-000342	C-FILM,PEF:2.2nF,5%,50V,TP,7.4x3.9x13mm,	
...		2401-002227	C-AL:330uF,20%,450V,GPBK,35x45,10		...	C214	2401-002235	C-AL:10uF,20%,16V,GP,TP5x11mm,5mm	
...		2401-003633	C-AL:220uF,20%,160V,GP,ST,22X25MM,1		...	C218	2305-000411	C-FILM,MPEF:470nF,5%,50V,TP,7.3x4.8x5.5m	
△	CR402S	2301-001219	C-FILM,MPE:PPF:3.9nF,5%,1.6KV,TP,29x8.5x		...	C219	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
△	CR403S	2301-001468	C-FILM,PPF:3.3nF,3%,1.6KV,TP,29X13.5X8MM		...	C220	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
△	CR406S	2306-000350	C-FILM,MPPF:270nF,5%,400V,TP,26X18.5X10MM		...	C221	2202-000849	C-CERAMIC,MLC-AXIAL:18pF,5%,50V,CH,TP,3	
△	CX801S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm		...	C222	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
△	CX802S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm		...	C223	2202-000632	C-CERAMIC,MLC-AXIAL:100nF,20%,50V,Z5U,TP	
△	CY801S	2201-000446	C-CERAMIC,DISC:3.3nF,20%,400V,Y5U,TP,15x		...	C224	2401-000660	C-AL:2.2uF,20%,50V,GP,TP5x11.5	
△	D801S	0402-001160	DIODE-BRIDGE:D5SB60,600V,6A,SIP-4,-		...	C225	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-,5mm	
...	D808	0402-001230	DIODE-RECTIFIER:FVG-G2CS,1000V,3A,TO-220		...	C226	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
△	FP801S	3601-000281	FUSE-CARTRIDGE:250V,4A,TIME-LAG,GLASS,5		...	C227	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
...	IC101	1204-001583	IC-IF CIRCUIT:U4468B,DIP,16P,-,PLASTIC,5		...	C228	2202-000143	C-CERAMIC,MLC-AXIAL:10pF,5%,50V,NPO,TP,1	
△	IC201S	AA09-00125A	IC MICOM:SPM802ERN5-0333,CS2039X,64P,3		...	C229	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
△	IC202	1103-001106	IC-EEPROM:C81D,1028x8Bit,DIP,8P;300MIL,		...	C231	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-,5mm	
...	IC501	AA96-50311A	ASSY H/S:-,VIDEO,AA62-30175D,TDA6107Q,-	S.N.A	...	C232	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
...		1201-001159	IC-VIDEO AMP:6107,ZSIP9P,-,SINGLE,-,PLA		...	C233	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11.5	
...		6003-000334	SCREW-TAPTITE:RH,+.2S,M3,L6,ZPC(YEL),SWR		...	C234	2401-000660	C-AL:2.2uF,20%,50V,GP,TP5x11.5	
...		AA62-30175D	HEAT SINK-PS:-,SECC,T1.0,-,33X15X30 FT-2		...	C235	2301-000342	C-FILM,PEF:2.2nF,5%,50V,TP,7.4x3.9x13mm,	
...	IC802	AA96-00245A	ASSY H/S:-,AA62-00055A,KA7632,-		...	C236	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-,5mm	
...		1203-001939	IC-POS.FIXED REG.:7632,SIP,10P,-,PLASTI		...	C237	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
...		AA62-00055A	HEAT SINK-PS:-,T1.0,-,35*15*25,D1,-,		...	C238	2401-000603	C-AL:1uF,20%,50V,GP,TP5x11.5	
...		6003-000334	SCREW-TAPTITE:RH,+.2S,M3,L6,ZPC(YEL),SWR		...	C239	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11.5	
...	L405	AA27-00159A	COIL HORIZ. WIDTH:140UH,140UH,YL-81 DR 1		...	C240	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
					...	C241	2401-000758	C-AL:220nF,20%,50V,GP,TP5x11.5	
					...	C242	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
					...	C243	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	

## Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
....4 C244	2309-000138	C-FILM,PE-PPF:100nF,5%,50V,TP,20x16x8,5		....4 D403	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP	
....4 C245	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....4 D405	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T	
....4 C246	2301-000204	C-FILM,PEF:2.7nF,5%,50V,TP,7.4x3.9x13mm,		....4 D406	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
....4 C247	2401-002619	C-AL:47uF,20%,25V,GP,TP5x11,5		....4 D407	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T	
....4 C248	2202-000829	C-CERAMIC,MLC-AXIAL:82NF,10%,50V,Y5P,TP		....4 D501	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,	
....4 C249	2301-000445	C-FILM,PEF:4.7nF,5%,50V,TP5.5x7x3mm,5mm		....4 D502	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,	
....4 C251	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....4 D503	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,	
....4 C252	2401-001989	C-AL:4.7uF,20%,50V,BP,TP5x11,5		....4 D504	0402-000010	DIODE-RECTIFIER:RGP15G,400V,1.5A,DO-204A	
....4 C253	2401-002619	C-AL:47uF,20%,25V,GP,TP5x11,5		....4 D801	0402-001111	DIODE-RECTIFIER:1N5397GP600V,1.5A,DO-20	
....4 C301	2301-000254	C-FILM,PEF:39nF,5%,50V,TP7.5x3.5x6.5mm,		....4 D802	0402-000254	DIODE-RECTIFIER:RGP10J,600V,1A,DO-41,TP	
....4 C302	2201-000262	C-CERAMIC,DISC:0.18nF,10%,50V,Y5P,TP,4x3		....4 D803	0401-000006	DIODE-SWITCHING:BAV21,250V,250mA,DO-35,T	
....4 C303	2401-000360	C-AL:100uF,20%,50V,GP,TP8x11,5,5		....4 D804	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,	
....4 C304	2401-000326	C-AL:100uF,20%,35V,GP,TP8x11,5,5		....4 D807	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L	
....4 C305	2305-000285	C-FILM,MPEF:220nF,5%,100V,TP,10.5X5.5X15		....4 DZ101	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C306	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5		....4 DZ201	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C401	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....4 DZ202	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C402	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11,5		....4 DZ204	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C403	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.		....4 DZ205	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C404	2305-000382	C-FILM,MPEF:4.7nF,5%,400V,TP,-5mm		....4 DZ206	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C405	2201-000639	C-CERAMIC,MLC-AXIAL:680pF,10%,2kV,Y5P,TP,9x5		....4 DZ207	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C407	2401-002268	C-AL:2.2uF,20%,250V,LZ,TP8X11,5		....4 DZ208	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C408	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ209	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C409	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5		....4 DZ210	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C410	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5		....4 DZ211	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C411	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ212	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C412	2401-000927	C-AL:22uF,20%,250V,GP,TP,13x20,5		....4 DZ213	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C413	2201-000556	C-CERAMIC,DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ214	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C414	2301-001065	C-FILM,MPPF:47nF,5%,630V,TP,19x15.5x7.7		....4 DZ215	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C504	2301-001259	C-FILM,MPPF:100nF,5%,400V,TP,19x8x16,7.5		....4 DZ216	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C505	2202-000825	C-CERAMIC,MLC-AXIAL:680pF,10%,50V,Y5P,TP		....4 DZ220	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C506	2401-000430	C-AL:10uF,20%,250V,GP,TP,10x16mm,5m		....4 DZ221	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C507	2401-001232	C-AL:4.7uF,20%,250V,GP,TP,10x12,5,5		....4 DZ301	0403-001328	DIODE-ZENER:MTZJ22A,20.15-21.20V,500mW,D	
....4 C508	2201-000723	C-CERAMIC,DISC:4.7nF,20%,3KV,Y5U,TP,16x5		....4 DZ302	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V,500mW,D	
....4 C625	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm		....4 DZ303	0403-001221	DIODE-ZENER:UZ39BSB,35.36-37.19V,500mW,D	
....4 C626	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ305	0403-001328	DIODE-ZENER:MTZJ22A,20.15-21.20V,500mW,D	
....4 C627	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-5mm		....4 DZ306	0403-000700	DIODE-ZENER:ZTP33A,33V,31-35V,1W,DO-41,T	
....4 C628	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-5mm		....4 DZ402	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C629	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-5mm		....4 DZ403	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V,500mW,DO	
....4 C630	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11,5		....4 DZ501	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C631	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-5mm		....4 DZ502	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C632	2301-000314	C-FILM,PEF:8.2nF,5%,50V,TP,6.5x3.0x5.5mm		....4 DZ503	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C633	2301-000314	C-FILM,PEF:8.2nF,5%,50V,TP,6.5x3.0x5.5mm		....4 DZ504	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C638	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ801	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V,500mW,D	
....4 C639	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ802	0403-000699	DIODE-ZENER:ZTP27B,27V,27-30.8V,1W,DO-41	
....4 C801	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4 DZ803	0403-000716	DIODE-ZENER:MTZJ4.7B,4.7V,4.55-4.8V,500m	
....4 C802	2201-000332	C-CERAMIC,DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4 DZ804	0403-001327	DIODE-ZENER:MTZJ18A,16.22-17.06V,500mW,D	
....4 C804	2401-001192	C-AL:33uF,20%,50V,GP,TP,6.3x11,5		....4 DZ805	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C805	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....4 DZ806	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V/500	
....4 C806	2301-000235	C-FILM,PEF:3.9nF,5%,50V,TP,6.5x3.0x5.5mm		....4 DZ808	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V/500	
....4 C807	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ809	0403-001317	DIODE-ZENER:MTZJ3.0B,3.01-3.22V,500mW,DO	
....4 C808	2301-001435	C-FILM,PPF:1.5nF,5%,1.2kV,TP,15x8x12.5mm		....4 DZ810	0403-001319	DIODE-ZENER:MTZJ4.7C,4.68-4.93V,500mW,DO	
....4 C809	2401-000480	C-AL:10uF,20%,50V,GP,TP5x11,5		....4 DZ811	0403-000700	DIODE-ZENER:ZTP33A,33V,31-35V,1W,DO-41,T	
....4 C810	2401-002619	C-AL:47uF,20%,25V,GP,TP5x11,5		....4 F801A	3602-000114	FUSE-HOLDER:-,30mohm	
....4 C811	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11,5		....4 F801B	3602-000114	FUSE-HOLDER:-,30mohm	
....4 C812	2401-000603	C-AL:1uF,20%,50V,GP,TP5x11,5		....4 FD801S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS	
....4 C813	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11,5		....4 FD802S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS	
....4 C814	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11,5		....4 IC803	1203-001217	IC-POS:ADJUST REG.:431,TO-92,3P,4.58MIL	
....4 C815	2401-000302	C-AL:100uF,20%,25V,GP,TP6.3x11,5		....4 J637	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 C816	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.		....4 L101	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C817	2401-000703	C-AL:2200uF,20%,25V,GP,-,12.5x25mm,		....4 L102	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm	
....4 C818	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP5.		....4 L104	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C819	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm		....4 L201	2701-000211	INDUCTOR-AXIAL:68uH,10%,2.5x3.4mm	
....4 C820	2201-000991	C-CERAMIC,DISC:0.56nF,10%,2kV,Y5P,TP,7.5		....4 L202	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm	
....4 C822	2401-000262	C-AL:100uF,20%,160V,HR,TP,16x25,7.5		....4 L203	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm	
....4 C823	2201-000379	C-CERAMIC,DISC:22nF,+80-20%,50V,Y5V,TP,9		....4 L204	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 C824	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....4 L205	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C825	2401-002300	C-AL:47uF,20%,50V,GP,TP,6.3x11,5		....4 L207	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm	
....4 CN603	3711-002644	CONNECTOR-HEADER:BOX,5P,1R,2.5mm,STRAIGH		....4 L208	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 CN701	3711-002647	CONNECTOR-HEADER:BOX,8P,1R,2.5mm,STRAIGH		....4 L209	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm	
....4 CR404S	2301-001067	C-FILM,MPPF:82nF,5%,400V,TP,19x15.5x7.7		....4 L210	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 CR405S	2201-000132	C-CERAMIC,DISC:0.1nF,10%,500V,Y5P,TP,6.5		....4 L211	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 D206	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L212	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 D301	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L303	3301-000287	CORE-FERRITE BEAD-AA,3.5x1.0x6.0mm,1500,	
....4 D302	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L304	3301-000287	CORE-FERRITE BEAD-AA,3.5x1.0x6.0mm,1500,	
....4 D303	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T		....4 L401	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 D401	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L		....4 L402	3301-000287	CORE-FERRITE BEAD-AA,3.5x1.0x6.0mm,1500,	
....4 D402	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP		....4 L403	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-	

Loc. No.	Code No.	Description : Specification	Remark
....4 L404	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 L801	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 L802	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 L804	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 L805	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
....4 L806	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-	
....4 L809	3301-001223	CORE-FERRITE BEAD:AA,62ohm,3.5x0.8x5mm,-	
....4 LC101	AA26-00025A	TRANS-IF:7MG,-,-,-,10pF,-,58.35MHz,7.7x	
....4 PCB	AA41-00428A	PCB-MAIN:21K3,FR-1,1LA,1.6T,330X245,KS	
....4 Q203	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q205	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 Q206	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 Q207	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q208	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q211	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 Q212	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q213	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q214	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q201	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 Q402	0502-001007	TR-POWER:KSC2073-H2,NPN,25W,TO-220,ST,6	
....4 Q601	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q602	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q603	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 Q801	0502-000242	TR-POWER:KSA614,PNP,25W,TO-220,TP,40-24	
....4 R101	2001-000554	R-CARBON:270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R102	2001-000554	R-CARBON:270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R104	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R105	2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R115	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R133	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R134	2001-000319	R-CARBON:120KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R135	2001-000645	R-CARBON:330KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R136	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R201	2001-000793	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R207	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R208	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R209	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R216	2001-000004	R-CARBON:200KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R217	2001-000857	R-CARBON:560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R218	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R222	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R223	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R224	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R225	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R226	2001-000857	R-CARBON:560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R228	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R229	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R230	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4 R231	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R232	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R244	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R245	2001-000591	R-CARBON:3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R246	2001-000793	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R247	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R248	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R249	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R251	2001-000490	R-CARBON:200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R252	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R253	2001-000674	R-CARBON:360OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R256	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R257	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R258	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R259	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R260	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R261	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R262	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R263	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R264	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R265	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R266	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4 R267	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R268	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R269	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
....4 R270	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R271	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description : Specification	Remark
....4 R272	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R273	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R274	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R275	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R276	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R277	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R279	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R280	2004-001914	R-METAL:39Kohm,2%,1/8W,AA,TP,1.8x3.5mm	
....4 R281	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R282	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R283	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R284	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R285	2001-000004	R-CARBON:200KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R286	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R288	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R289	2001-000011	R-CARBON:75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R290	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R293	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R295	2001-000739	R-CARBON:4.7MOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R296	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R297	2001-000739	R-CARBON:4.7MOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R301	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R302	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R303	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R304	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R305	2004-004097	R-METAL:1.6Kohm,2%,1/2W,AA,TP,6.5x2.5m	
....4 R306	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP,2.4x6.4MM	
....4 R307	2004-004097	R-METAL:1.6Kohm,2%,1/2W,AA,TP,6.5x2.5m	
....4 R308	2008-001013	R-FUSIBLE(S):1.2ohm,5%,2W,AF,TP,3.9x10mm	
....4 R309	2003-002009	R-METAL OXIDE(S):390ohm,5%,2W,AF,TP,3.9x	
....4 R310	2003-002009	R-METAL OXIDE(S):390ohm,5%,2W,AF,TP,3.9x	
....4 R401	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R402	2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,TP,2.4x6.4	
....4 R403	2001-000117	R-CARBON(S):680OHM,5%,1/2W,AA,TP,2.4x6.4M	
....4 R404	2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,TP,2.4x6.4	
....4 R405	2001-000020	R-CARBON(S):220OHM,5%,1/2W,AA,TP,2.4x6.4M	
....4 R407	2003-002008	R-METAL OXIDE(S):18Kohm,5%,2W,AF,TP,3.9x	
....4 R408	2003-000540	R-METAL OXIDE(S):1Kohm,5%,2W,AF,TP,4x12m	
....4 R413	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2W,AF,TP,3.9x10	
....4 R414	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2W,AF,TP,3.9x10	
....4 R416	2004-001402	R-METAL(S):6.8Kohm,1%,1/2W,AA,TP,2.4x6.4	
....4 R417	2004-001405	R-METAL(S):79Kohm,1%,1/2W,AA,TP,2.4x6.4m	
....4 R419	2003-002024	R-METAL OXIDE(S):91Kohm,5%,2W,AF,TP,3.9x	
....4 R420	2003-002024	R-METAL OXIDE(S):91Kohm,5%,2W,AF,TP,3.9x	
....4 R423	2003-002007	R-METAL OXIDE(S):4.7Kohm,5%,2W,AF,TP,3.9	
....4 R501H	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP,3.7	
....4 R502H	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP,3.7	
....4 R504	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R505	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R506	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R511	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP,3.7	
....4 R512	2008-000299	R-FUSIBLE(S):47ohm,5%,2W,AF,TP,3.9x10mm	
....4 R513	2008-000292	R-FUSIBLE(S):3.3ohm,5%,2W,AF,TP,3.9x10mm	
....4 R514	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP,2.4x6.4	
....4 R609	2001-000773	R-CARBON:470KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R610	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2W,AF,TP,3.9x10	
....4 R611	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10	
....4 R612	2001-000800	R-CARBON:5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R613	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R614	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R615	2001-000800	R-CARBON:5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 R618	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R619	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R620	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R621	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R622	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R623	2001-000019	R-CARBON(S):100HM,5%,1/2W,AA,TP,2.4x6.4M	
....4 R624	2001-000019	R-CARBON(S):100HM,5%,1/2W,AA,TP,2.4x6.4M	
....4 R707	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
....4 R801	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x	
....4 R802	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x	
....4 R803	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4x6.	
....4 R804	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4x6.	
....4 R805	2001-001086	R-CARBON(S):18KOHM,5%,1/2W,AA,TP,2.4x6.4	
....4 R806	2001-000019	R-CARBON(S):100HM,5%,1/2W,AA,TP,2.4x6.4M	
....4 R807	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP,2.4x6.4	
....4 R808	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP,2.4x6.4	

Loc. No.	Code No.	Description ; Specification	Remark
....4 R809	2001-000109	R-CARBON(S):4700HM,5%,1/2W,AA,TP2.4X6.4	
....4 R810	2001-001192	R-CARBON(S):8200HM,5%,1/2W,AA,TP2.4X6.4	
....4 R812	2001-001149	R-CARBON(S):43KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R813	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R814	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R815	2008-000294	R-FUSIBLE(S):33ohm,5%,2W,AF,TP3.9x10mm	
....4 R816	2008-000266	R-FUSIBLE(S):1ohm,5%,2W,AF,TP3.9x10mm	
....4 R818	2003-000998	R-METAL OXIDE:300ohm,5%,2W,AF,TP3.9x10m	
....4 R819	2003-002064	R-METAL OXIDE:7.5ohm,5%,2W,AF,TP10x3.9m	
....4 R820	2003-002064	R-METAL OXIDE:7.5ohm,5%,2W,AF,TP10x3.9m	
....4 R821	2003-002064	R-METAL OXIDE:7.5ohm,5%,2W,AF,TP10x3.9m	
....4 R822	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R823	2004-001390	R-METAL(S):1Kohm,2%,1/2W,AA,TP2.4x6.4mm	
....4 R824	2004-001371	R-METAL(S):1.5Kohm,1%,1/2W,AA,TP2.4x6.4	
....4 R825	2001-001131	R-CARBON(S):33KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R826	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP2.4x6.	
....4 R830	2003-000586	R-METAL OXIDE(S):22Kohm,5%,2W,AF,TP4x12	
....4 R831	2003-000586	R-METAL OXIDE(S):22Kohm,5%,2W,AF,TP4x12	
....4 R832	2003-000532	R-METAL OXIDE(S):18ohm,5%,2W,AF,TP4x12m	
....4 R834	2004-001377	R-METAL(S):120Kohm,1%,1/2W,AA,TP2.4x6.4	
△....4 RR401S	2004-001390	R-METAL(S):1Kohm,2%,1/2W,AA,TP2.4x6.4mm	
△....4 RX801S	2002-001011	R-COMPOSITION:3.3Mohm,5%,1/2W,AA,TP3.7x	
△....4 RY801S	2002-001012	R-COMPOSITION:8.2Mohm,5%,1/2W,AA,TP3.7x	
....4 SW202	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW203	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW204	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW205	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW206	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
△....4 VX801S	1405-000187	VARISTOR:750V,1250A,12.5x7mm,TP	
....4 X201	2801-003433	CRYSTAL-UNIT:12MHZ,30PPM,28-AAM,30PF,300	
....4 Z201	2903-001040	FILTER-CERAMIC,TR,5.5/6.0/6.5MHz,-,1dB,-	
..2	AA39-20010B	LEAD CONNECTOR-ASSY:,1PYFH800-01,S,500,	

## ASSY CRT

1 *	AA94-03559A	ASSY CRT:A51QDX991X101,+380MG,21 INCH,I	
△..2	AA03-00257A	CRT COLOR:A51QDX991X101,380MG,1.85MH,18.	

## ASSY CABINET FRONT

1 *	AA91-00590G	ASSY CABINET FRONT:,21K3,(SPK)SV012P MPP	
..2 CF+KC	6003-001026	SCREW-TAPTITE:RH,+,B,M4,L15,ZPC(BLK),SWR	
..2 CF+WR	6003-001026	SCREW-TAPTITE:RH,+,B,M4,L15,ZPC(BLK),SWR	
..2 SPK+CF	6003-001019	SCREW-TAPTITE:RH,+,B,M4,L12,ZPC(BLK),SWR	
..2	AA64-01436B	INDICATOR LED:29K3,ACRYL,-,CLR,-,-,-	
..2	AA64-01437B	KNOB CONTROL:21,29K3,ABS,G3676,SV012PHB	
..2	AA64-01487E	CABINET FRONT:21K3,SV012P MPP,HIPS,HB,G7	
..2	AA64-70123A	BADGE-BRAND:AL,SAMSUNG,SILVER,L=50,FLAT,	
..2	AA65-00011C	CLAMP-WIRE:ALL MODEL,NYLON 66,V2,NTR,25M	S.N.A
..2	AA96-00358E	ASSY SPEAKER:-,8ohm,5W,3001-000274,400/6	
...3	3001-000274	SPEAKER:5W,8ohm,90dB,160Hz	
...3	AA39-00102S	LEAD CONNECTOR ASSY:,4P,35155-0400,REC,4	
..2	AA65-30105A	CLAMP-WIRE:NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2	AA64-01435B	WINDOW REMOCON:29K3,PC,-,-,VO,VIOLET,-	
..2	AA61-40113A	STOPPER-PCB:501H,HIPS,-,-,HB,NTR,-	
..2	AA61-60003J	SPRING-CS:-,SUS304,0.5,OD6,H12,N7,-,-,-	
..2	AA64-01309L	INLAY AV/PS SHEET,21D8,T0.3,KS2A M/N P/	
..2	AA64-01434B	KNOB POWER:29K3,ABS,-,G3676,SV012P NO-SI	

## ASSY CABINET

1 *	AA90-00692G	ASSY CABINET:21K3,CS21K3DX/BWT	
..2 CB+CF	AA60-10050T	SCREW-TAPPING:-,SWRCH18A,M4,L20,RH,+,2S,	
..2 CRT	AA64-01334B	INLAY-CRT:ORION,PS SHEET,T1,0.50*30,BLK,	S.N.A
..2 CRT+CF	AA60-10050R	SCREW-ASSY:-,SWRCH18A,M5,L31.5,HH,+,WC,-	
..2 PA+CF	6002-000522	SCREW-TAPPING:TH,+,2,M4,L15,ZPC(BLK),SWR	
..2 RJ+CB	AA60-10050T	SCREW-TAPPING:-,SWRCH18A,M4,L20,RH,+,2S,	
..2	AA64-00892D	INLAY BACK:D2,RCA4PPS SHEET,T0.3,BLK,-,	S.N.A
..2	AA60-00091J	SPACER-FELT:-,FELT,330X10,-,-,BLK,T0.5,-	S.N.A

Loc. No.	Code No.	Description ; Specification	Remark
..2	AA64-01854C	CABINET-BACK:21K3,HIPS V2,BLK	
..2	AA65-00009B	CLAMP-D,COIL:NYLON 66,V0,-,-,21A8,-	S.N.A
..2	AA65-30008A	CLAMP-CORD:PE,HB,BLK,-,-,-	

## ASSY-POWER,CORD

△ 1 *	AA96-20109C	ASSY-POWER,CORD:-,CP2/NQ(4.0),H/C300,KKP	
..2	3811-000401	WIRE-PVC CU:BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
..2	AA39-10006X	POWER-CORD:-,KKP419C,KLCE-2F,2.286MT,3P,	
..2	AA61-20284A	HOLDER:-,P-CORD,PP,VO,BLK,KE-002	S.N.A

## ASSY-PCB,A/V SIDE

1 *	AA95-00793A	ASSY-PCB,A/V SIDE:-,CT-29H1D,KS2A,MONO,-	
..2 CA06	2401-001840	C-AL:100uF,20%,16V,GPTP6.3x11.5	
..2 CA07	2401-001840	C-AL:100uF,20%,16V,GPTP6.3x11.5	
..2 CN01A	AA39-20068E	LEAD CONNECTOR-ASSY:,8PYBNH025-08,67096	
..2 CN05A	AA39-20069C	LEAD CONNECTOR-ASSY:,5PYBNH025-05,67096	
..2 CN06A	AA39-00070A	LEAD CONNECTOR-ASSY:,4PYBNH250-04,35184	
..2 JA01	3722-001282	JACK-RCA:2P(3P),3.2mm,AU,BLK,-	
..2 JE01	3722-000143	JACK-PHONE:1P(VER),3.4mm,AG,BLK,NO	
..2 PCB	AA41-11017B	PCB-A/V SIDE:CS29D8,FR-1,1L,B,1.6T,245X2	S.N.A
..2 RA01	2001-000028	R-CARBON(S):1000HM,5%,1/2W,AA,TP2.4X6.4	
..2 RA02	2001-000028	R-CARBON(S):1000HM,5%,1/2W,AA,TP2.4X6.4	
..2	AA63-10002A	BAND-TIE:-,NYLON66 V2,-,-,L100,NTR,-,-	S.N.A
..2	AA98-60006A	ASSY-SUB,PART:S51A,A/V SIDE,PAL,-	S.N.A
...3	0202-000187	SOLDER-WIRE FLUX:-,RS60S,D1.2,63Sn/37Pb	S.N.A

## ASSY ACCESSORY

1 *	AA94-03661A	ASSY ACCESSORY:CS21K3DX/BWT,KS1B,RUSSIA	
..2	AA68-01503A	MANUAL USERS:,RUS,W/P100(G),1,KS1B,32PR	
..2	AA68-01402A	MANUAL-GOOD WILL LETTER:,CIS,B5,1PAGE,A/	S.N.A
..2	AA68-01120A	MANUAL SERVICE:-,CIS,A4,6PAGE(FOLD),W/	
..2	AA42-00003A	ANT ROD:-,3S,720mm,ABS,UL/CSA,-	
..2	AA26-90001C	TRANS-MATCHING:-,300ohm/75ohm,PAL,40-890	

## REMOCON

1 *	AA59-00198D	REMOCON:,TM59,DREAM,24,L/GRAY,MONO,NON	
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## 7-2 CS21K2DX/NWT

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY PCB MAIN(OPT)</b>					....4	C103	2401-002594	C-AL:220uF,20%,16V,GPTP8x11.5,5	
1	*	AA94-03660D	ASSY PCB MAIN(OPT):CS21K2DX/NWT,KS1B,UKR		....4	C104	2401-000480	C-AL:10uF,20%,50V,GPTP5x11.5	
..2	C/W	AA65-30018A	CLAMP-WIRE:NYLON-66,-,-,DATL-600,DONG-A,	S.N.A	....4	C105	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
..2	CN501	AA39-20604A	LEAD CONNECTOR-ASSY;5/4P,YBNH250-09,YBN		....4	C106	2401-002619	C-AL:47uF,20%,25V,GPTP5x11.5	
..2	D404	0402-001296	DIODE-RECTIFIER:FMP-3FU,1.5KV,5A,TO-3PF,		....4	C109	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
..2	IC301	AA96-00623A	ASSY H/S:-,POWER,AA62-00056A,LA7845		....4	C110	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
....3		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	....4	C114	2401-001496	C-AL:47uF,20%,16V,GPTP5x7.5	
....3		1204-000517	IC-VERTICAL DEF:LA7845,SIP,7P,-,PLASTIC		....4	C115	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
....3		6003-000334	SCREW-TAPTITE:RH,+2S,M3,L6,ZPC(YEL),SWR		....4	C116	2305-000412	C-FILM,MPEF:470nF,5%,63V/TP,-,5mm	
....3		AA62-00056A	HEAT SINK-PS:-,T1.0,-,41*35*70,D2,-,-,		....4	C117	2401-000027	C-AL:4.7uF,20%,50V,GPTP5x11.5	
..2	IC603	AA96-50311K	ASSY H/S:-,AMPA62-30175D,TDA8943SF		....4	C118	2401-000027	C-AL:4.7uF,20%,50V,GPTP5x11.5	
....3		1201-001740	IC-AUDIO AMP:TDA8943,SIL,9P,850MIL,SINGL		....4	C120	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
....3		6003-000334	SCREW-TAPTITE:RH,+2S,M3,L6,ZPC(YEL),SWR		....4	C128	2202-000286	C-CERAMIC,MLC-AXIAL:56pF,5%,50V,SL,TP,1.	
....3		AA62-30175D	HEAT SINK-PS:-,SECC,T1.0,-,33X15X30 FT-2		....4	C201	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..2	IC801S	AA96-50373H	ASSY H/S:-,POWER,AA62-30181K,SQ1265RT		....4	C203	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
....3		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	....4	C204	2305-000411	C-FILM,MPEF:470nF,5%,50V/TP,7.3x4.8x5.5mm	
....3		1203-002257	IC-PWM CONTROLLER:SQ12656RT,TO-220F-5L,5		....4	C205	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
....3		6003-000333	SCREW-TAPTITE:RH,+2S,M3,L10,ZPC(YEL),SW		....4	C206	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
....3		AA62-30181K	HEAT SINK-ES:-,AL6063 EXTR.,2,WHT,40MM,-	S.N.A	....4	C207	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..2	JA701	3722-001363	JACK-RCA:4P(9P),3.2MM,NL,BLK,-		....4	C208	2201-000573	C-CERAMIC,DISC:0.047nF,5%,50V,NP0,TP,5x3	
△..2	LC801S	AA27-00130A	COIL DEGAUSSING:-,-,-,40T,9ohm,-,21inc		....4	C211	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..2	LR401S	AA27-00160A	COIL LINEARITY:64UH,64UH,L-81 OVA 12X15,		....4	C212	2401-000480	C-AL:10uF,20%,50V,GPTP5x11.5	
..2	Q401	AA96-00624A	ASSY H/S:-,POWER,AA62-00057A,KSD5703,VWA		....4	C213	2301-000342	C-FILM,PEF:2.2nF,5%,50V/TP,7.4x3.9x13mm,	
....3		AA62-00057A	HEAT SINK-PS:-,T1.0,-,41*20*60,D2,-,-,	S.N.A	....4	C214	2401-002235	C-AL:10uF,20%,16V,GPTP5x11mm,5mm	
....3		AA60-30001A	WASHER-PLATE:M3,ID3.5,15X8.5,T1.0,-,SBHG		....4	C218	2305-000411	C-FILM,MPEF:470nF,5%,50V/TP,7.3x4.8x5.5mm	
....3		6003-000333	SCREW-TAPTITE:RH,+2S,M3,L10,ZPC(YEL),SW		....4	C219	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
....3		0502-001136	TR-POWER:KSD5703,NPN,70W,TO-3PF,ST,8-		....4	C220	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
....3		0205-000129	GREASE-SILICON:SC102,JAPAN	S.N.A	....4	C221	2202-000849	C-CERAMIC,MLC-AXIAL:18pF,5%,50V,CH,TP,3.	
△..2	T444S	AA26-00057A	TRANS-FBT:-,FUH-29A001B(S),25/29,130		....4	C222	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
△..2	T801S	AA26-00115A	TRANS SWITCHING:-,160-320,PL3,PM2,EER3543		....4	C223	2202-000632	C-CERAMIC,MLC-AXIAL:100nF,20%,50V,Z5U,TP	
..2		AA99-30223B	ASSY-PCB ROBOT: AA94-03660D ER	S.N.A	....4	C224	2401-000660	C-AL:2.2uF,20%,50V,GPTP5x11.5	
....3	C803	2401-002227	C-AL:330uF,20%,450V,GPBK,35x45,10		....4	C225	2305-000289	C-FILM,MPEF:220nF,5%,63V/TP,-,5mm	
....3	C821	2401-003633	C-AL:220uF,20%,160V,GPST,22X25MM,1		....4	C226	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..3	CR402S	2301-001219	C-FILM,MPE-PPF:3.9nF,5%,1.6KV,TP,29x8.5x		....4	C227	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..3	CR403S	2301-001468	C-FILM,PPF:3.3nF,3%,1.6KV,TP,29X13.5X8MM		....4	C228	2202-000143	C-CERAMIC,MLC-AXIAL:10pF,5%,50V,NP0,TP,1	
△..3	CR406S	2306-000350	C-FILM,MPPF:270nF,5%,400V,TP,26X18.5X10MM		....4	C229	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
△..3	CX801S	2306-000318	C-FILM,MPPF:220nF,20%,250V/TP,-,22.5mm		....4	C231	2305-000289	C-FILM,MPEF:220nF,5%,63V/TP,-,5mm	
△..3	CX802S	2306-000318	C-FILM,MPPF:220nF,20%,250V/TP,-,22.5mm		....4	C232	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
△..3	CY801S	2201-000446	C-CERAMIC,DISC:3.3nF,20%,400V,Y5U,TP,15x		....4	C233	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..3	D801S	0402-001160	DIODE-BRIDGE:D5SB60,600V,6A,SIP-4,-		....4	C234	2401-000660	C-AL:2.2uF,20%,50V,GPTP5x11.5	
....3	D808	0402-001230	DIODE-RECTIFIER:FMG-G2CS,1000V,3A,TO-220		....4	C235	2301-000342	C-FILM,PEF:2.2nF,5%,50V/TP,7.4x3.9x13mm,	
△..3	FP801S	3601-000281	FUSE-CARTRIDGE:250V,4A,TIME-LAG,GLASS,5.		....4	C236	2305-000289	C-FILM,MPEF:220nF,5%,63V/TP,-,5mm	
....3	IC101	1204-001583	IC-IF CIRCUIT:U4468B,DIP,16P,-,PLASTIC,5		....4	C237	2301-000445	C-FILM,PEF:4.7nF,5%,50V/TP,5.5x7x3mm,5mm	
△..3	IC201S	AA09-00125A	IC MICOM:SPM802ERN5-0333,CS2039X,64P,3.		....4	C238	2401-000603	C-AL:1uF,20%,50V,GPTP5x11.5	
....3	IC202	1103-001106	IC-EEPROM:C81DC,1028x8Bit,DIP,8P,300MIL,		....4	C239	2401-000480	C-AL:100uF,20%,50V,GPTP5x11.5	
....3	IC501	AA96-50311A	ASSY H/S:-,VIDEO,AA62-30175D,TDA6107D,-	S.N.A	....4	C240	2305-000665	C-FILM,MPEF:100nF,5%,63V/TP,7.5x4.0x5.0mm	
....4		1201-001159	IC-VIDEO AMP:6107,ZSIP9P,-,SINGLE,-,PLA		....4	C241	2401-000758	C-AL:220nF,20%,50V,GPTP5x11.5	
....4		6003-000334	SCREW-TAPTITE:RH,+2S,M3,L6,ZPC(YEL),SWR		....4	C242	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
....4		AA62-30175D	HEAT SINK-PS:-,SECC,T1.0,-,33X15X30 FT-2		....4	C243	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
....4	IC802	AA96-00245A	ASSY H/S:-,AA62-00056A,KA7632,-		....4	C244	2309-000138	C-FILM,PE-PPF:100nF,5%,50V,TP,20x16x8.5,	
....4		1203-001939	IC-POS.FIXED REG.:7632,SIP,10P,-,PLASTI		....4	C245	2301-000224	C-FILM,PEF:22nF,5%,50V/TP,7.4x3.9x13mm,5	
....4		AA62-00055A	HEAT SINK-PS:-,T1.0,-,35*15*25,D1,-,-,		....4	C246	2301-000204	C-FILM,PEF:2.7nF,5%,50V/TP,7.4x3.9x13mm,	
....4		6003-000334	SCREW-TAPTITE:RH,+2S,M3,L6,ZPC(YEL),SWR		....4	C247	2401-002619	C-AL:47uF,20%,25V,GPTP5x11.5	
....3	L405	AA27-00159A	COIL HORIZ. WIDTH:140UH,140UH,YL-81 DR 1		....4	C248	2202-000829	C-CERAMIC,MLC-AXIAL:-,82NF,10%,50V,Y5P,TP	
....3	L808	AA27-00098A	COIL CHOKE:-,24uH,10%,0.1,3.0A,DR10X		....4	C249	2301-000445	C-FILM,PEF:4.7nF,5%,50V/TP,5.5x7x3mm,5mm	
....3	LD201	AA96-00555A	ASSY LED GUIDE:-,UEX-LD-030,GREEN	S.N.A	....4	C251	2401-001989	C-AL:4.7uF,20%,50V,BPTP5x11.5	
△..3	LX801S	AA29-30002F	FILTER-LINE NOISE:-,6mH,2.45A,-,-		....4	C252	2401-001989	C-AL:4.7uF,20%,50V,BPTP5x11.5	
△..3	NT802S	1404-001045	THERMISTOR-NTC:4.7ohm,15%,2900K,35.0mW,T		....4	C253	2401-002619	C-AL:47uF,20%,25V,GPTP5x11.5	
△..3	PC801S	0604-001038	PHOTO-COUPLER:TR,130-260,200mW,DIP-4,ST		....4	C301	2301-000254	C-FILM,PEF:39nF,5%,50V/TP,7.5x3.5x6.5mm,	
△..3	PT801S	1404-001156	THERMISTOR-PTC:90HM,+30%/20%,220V RMS,27		....4	C302	2201-000262	C-CERAMIC,DISC:0.18nF,10%,50V,Y5P,TP,4x3	
....3	RM201	AA59-60001U	MODULE-REMOCON:-,ORC-50VF/SR-12V,38KHZ,9		....4	C303	2401-000360	C-AL:100uF,20%,50V,GPTP8x11.5,5	
△..3	SF101S	2904-000302	FILTER-SAW AV:38.9MHz,SIP5K,ST,15.4dB,B/		....4	C304	2401-000326	C-AL:100uF,20%,35V,GPTP8x11.5,5	
△..3	SF103S	2904-001024	FILTER-SAW AV:38.9MHz,SIP5K,TP,18.3dB,PA		....4	C305	2305-000285	C-FILM,MPEF:220NF,5%,100V,TP,10.5X5.5X15	
△..3	SW801S	3403-001107	SWITCH-PUSH:250V,5A,DPST,-,KDC-A04		....4	C306	2305-000149	C-FILM,MPEF:100nF,5%,100V/TP,12x12.5x6.5	
....3	T401A	AA26-50001R	TRANS-HORIZ.DRIVE:-,80MH,520UH,4UH,G11A		....4	C401	2301-000383	C-FILM,PEF:1nF,5%,50V/TP,6x7x3.2mm,5mm	
△..3	TU01S	AA40-00067A	TUNER:TAEI-G671D,-,PAL,181CH,38.9MHz		....4	C402	2401-000302	C-AL:100uF,20%,25V,GPTP6.3x11.5	
△..3	V999S	3704-001105	SOCKET-CRT:11P20PL,26.5PI,NL,-		....4	C403	2201-000599	C-CERAMIC,DISC:0.56nF,10%,500V,Y5P,TP,5.	
....3		AA99-10217A	ASSY-PCB MAIN,AUTO: AA99-30223B ,V	S.N.A	....4	C404	2305-000382	C-FILM,MPEF:4.7nF,5%,400V,TP,-,5mm	
....4	C101	2401-000962	C-AL:22uF,20%,50V,GPTP5x11.5		....4	C405	2201-000639	C-CERAMIC,DISC:0.68nF,10%,2KV,Y5P,TP,9x5	
....4	C102	2301-000383	C-FILM,PEF:10nF,5%,50V,TP,6x7x3.2mm,5mm		....4	C407	2401-002268	C-AL:2.2uF,20%,250V,LZ,TP,8X11,5	

## Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
....4 C408	2201-000556	C-CERAMIC, DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ213	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C409	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5		....4 DZ214	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C410	2401-001397	C-AL:470uF,20%,25V,GP,TP,10x16,5		....4 DZ215	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C411	2201-000556	C-CERAMIC, DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ216	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C412	2401-000927	C-AL:22uF,20%,250V,GP,TP,13x20,5		....4 DZ220	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C413	2201-000556	C-CERAMIC, DISC:0.47nF,10%,500V,Y5P,TP5.		....4 DZ221	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C414	2301-001065	C-FILM,MPPF:47nF,5%,630V,TP,19x15.5x7,7.		....4 DZ301	0403-001328	DIODE-ZENER:MTZJ22A,20.15-21.20V/500mW,D	
....4 C504	2301-001259	C-FILM,MPPF:100nF,5%,400V,TP,19x8x16,7.5		....4 DZ302	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77V/500mW,D	
....4 C505	2202-000825	C-CERAMIC,MLC-AXIAL:680pF,10%,50V,Y5P,TP		....4 DZ303	0403-001221	DIODE-ZENER:UZ39SB,35.36-37.19V/500mW,D	
....4 C506	2401-000430	C-AL:10uF,20%,250V,GP,TP,10x16mm,5m		....4 DZ305	0403-001328	DIODE-ZENER:MTZJ22A,20.15-21.20V/500mW,D	
....4 C507	2401-001232	C-AL:4.7uF,20%,250V,GP,TP,10x12.5,5		....4 DZ306	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T	
....4 C508	2201-000723	C-CERAMIC, DISC:4.7nF,20%,3KV,Y5U,TP,16x5		....4 DZ402	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C625	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm		....4 DZ403	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V/500mW,DO	
....4 C626	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ501	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C627	2305-000289	C-FILM,MPEF:220nF,5%,63V,TP,-5mm		....4 DZ502	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C630	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5		....4 DZ503	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C632	2301-000289	C-FILM,PEF:5.6nF,5%,50V,TP,7x6x3,5		....4 DZ504	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C634	2309-000141	C-FILM,PE-PF:220nF,5%,50V,TP,20x12x17.5		....4 DZ801	0403-001211	DIODE-ZENER:MTZJ12B,11.44-12.03V/500mW,D	
....4 C638	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ802	0403-000699	DIODE-ZENER:TZP27B,27V,27-30.8V,1W,DO-41	
....4 C801	2201-000332	C-CERAMIC, DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4 DZ803	0403-000716	DIODE-ZENER:MTZJ4.7B,4.7V/4.55-4.8V/500m	
....4 C802	2201-000332	C-CERAMIC, DISC:2.2nF,20%,250V,Y5U,TP,9x4		....4 DZ804	0403-001327	DIODE-ZENER:MTZJ18A,16.22-17.06V/500mW,D	
....4 C804	2401-001192	C-AL:33uF,20%,50V,GP,TP,6.3x11,5		....4 DZ805	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C805	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....4 DZ806	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500	
....4 C806	2301-000235	C-FILM,PEF:3.9nF,5%,50V,TP,6.5x3.0x5.5mm		....4 DZ808	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500	
....4 C807	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		....4 DZ809	0403-001317	DIODE-ZENER:MTZJ3.0B,3.01-3.22V/500mW,DO	
....4 C808	2301-001435	C-FILM,PPF:1.5nF,5%,1.2kV,TP,15x8x12.5mm		....4 DZ810	0403-001319	DIODE-ZENER:MTZJ4.7C,4.68-4.93V/500mW,DO	
....4 C809	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5		....4 DZ811	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,T	
....4 C810	2401-002619	C-AL:47uF,20%,25V,GP,TP,5x11,5		....4 F801A	3602-000114	FUSE-HOLDER:-,30mohm	
....4 C811	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5		....4 F801B	3602-000114	FUSE-HOLDER:-,30mohm	
....4 C812	2401-000603	C-AL:1uF,20%,50V,GP,TP,5x11,5		....4 FD801S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS	
....4 C813	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5		....4 FD802S	3601-001086	FUSE-AXIAL LEAD:125V,5A,FAST-ACTING,GLAS	
....4 C814	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5		....4 IC803	1203-001217	IC-POS:ADJUST REG:431,TO-92,3P,4.58MIL	
....4 C815	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5		....4 J637	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
....4 C816	2201-000599	C-CERAMIC, DISC:0.56nF,10%,500V,Y5P,TP5.		....4 L101	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C817	2401-000703	C-AL:2200uF,20%,25V,GP,-12.5x25mm,		....4 L102	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm	
....4 C818	2201-000599	C-CERAMIC, DISC:0.56nF,10%,500V,Y5P,TP5.		....4 L104	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C819	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm		....4 L201	2701-000211	INDUCTOR-AXIAL:68uH,10%,2.5x3.4mm	
....4 C820	2201-000991	C-CERAMIC, DISC:0.56nF,10%,2kV,Y5P,TP,7.5		....4 L202	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm	
....4 C822	2401-000262	C-AL:100uF,20%,160V,HR,TP,16x25,7.5		....4 L203	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm	
....4 C823	2201-000379	C-CERAMIC, DISC:22nF,80-20%,50V,Y5V,TP9		....4 L204	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 C824	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm,5		....4 L205	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
....4 C825	2401-002300	C-AL:47uF,20%,50V,GP,TP,6.3x11,5		....4 L207	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm	
....4 CN601	3711-000900	CONNECTOR-HEADER:BOX,3P,1R,2.5mm,STRAIGH		....4 L208	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 CR404S	2301-001067	C-FILM,MPPF:82nF,5%,400V,TP,19x15.5x7,7.		....4 L209	2701-000159	INDUCTOR-AXIAL:22uH,10%,4.2x9.8mm	
....4 CR405S	2201-000132	C-CERAMIC, DISC:0.1nF,10%,500V,Y5P,TP6.5		....4 L210	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 D206	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L211	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 D301	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L212	2701-000158	INDUCTOR-AXIAL:22uH,10%,2.5x3.4mm	
....4 D302	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 L303	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D303	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T		....4 L304	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D401	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L		....4 L401	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm	
....4 D402	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP		....4 L402	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D403	0402-001321	DIODE-RECTIFIER:1A4G,400,1A,R-1,TP		....4 L403	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-	
....4 D405	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T		....4 L404	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D406	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP		....4 L801	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D407	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,T		....4 L802	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D501	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		....4 L804	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D502	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		....4 L805	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-	
....4 D503	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		....4 L806	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,	
....4 D504	0402-000010	DIODE-RECTIFIER:RGP15G,400V,1.5A,DO-204A		....4 L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP-	
....4 D801	0402-001111	DIODE-RECTIFIER:1N5397GP,600V,1.5A,DO-20		....4 L809	3301-001223	CORE-FERRITE BEAD:AA,62ohm,3.5x0.8x5mm,-	
....4 D802	0402-000254	DIODE-RECTIFIER:RGP10J,600V,1A,DO-41,TP		....4 LC101	AA26-00025A	TRANS-IF:7MG,-,10pF,-,58.35MHz,7.7x	
....4 D803	0401-000006	DIODE-SWITCHING:BAV21,250V,250mA,DO-35,T		....4 PCB	AA41-00428A	PCB-MAIN:21K3,FR-1,1LA,1.6T,330X245,KS	
....4 D804	0401-000005	DIODE-SWITCHING:1N4148,100V,200mA,DO-35,		....4 Q203	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 D806	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L		....4 Q205	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 D807	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L		....4 Q206	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 DZ101	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500		....4 Q207	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ201	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500		....4 Q208	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ202	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q211	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 DZ204	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V/5.45-5.73V/500		....4 Q212	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ205	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q213	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ206	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q214	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ207	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q301	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
....4 DZ208	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q402	0502-001007	TR-POWER:KSC2073-H2,NPN,25W,TO-220,ST,6	
....4 DZ209	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q601	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ210	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q602	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ211	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q603	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
....4 DZ212	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V/8.57-9.01V/500		....4 Q801	0502-000242	TR-POWER:KSA614,PNP,25W,TO-220,TP,40-24	

Loc. No.	Code No.	Description : Specification	Remark
....4 R101	2001-000554	R-CARBON:270OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R102	2001-000554	R-CARBON:270OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R104	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R105	2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R115	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R133	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R134	2001-000319	R-CARBON:120KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R135	2001-000645	R-CARBON:330KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R136	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R201	2001-000793	R-CARBON:470OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R207	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R208	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R209	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R216	2001-000004	R-CARBON:200KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R217	2001-000857	R-CARBON:560OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R218	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R222	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R223	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R224	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R225	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R226	2001-000857	R-CARBON:560OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R228	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R229	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R230	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP1.8x3.2mm	
....4 R231	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R232	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R244	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R245	2001-000591	R-CARBON:3.3KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R246	2001-000793	R-CARBON:470OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R247	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R248	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R249	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R251	2001-000490	R-CARBON:200OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R252	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R253	2001-000674	R-CARBON:360OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R256	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R257	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R258	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R259	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R260	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R261	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R262	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R263	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R264	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R265	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R266	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP1.8x3.2mm	
....4 R267	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R268	2001-000241	R-CARBON:1.5KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R269	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP1.8x3.2mm	
....4 R270	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R271	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R272	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R273	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R274	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R275	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R276	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R277	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R279	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R280	2004-001914	R-METAL:39Kohm,2%,1/8W,AA,TP1.8x3.5mm	
....4 R281	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R282	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R283	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R284	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R285	2001-000004	R-CARBON:200KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R286	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R288	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R289	2001-000011	R-CARBON:75KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R290	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R293	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R295	2001-000739	R-CARBON:4.7MOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R296	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R297	2001-000739	R-CARBON:4.7MOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R301	2001-000258	R-CARBON:1.8KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R302	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R303	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R304	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	

Loc. No.	Code No.	Description : Specification	Remark
....4 R305	2004-004097	R-METAL:1.6Kohm,2%,1/2W,AA,TP6.5x2.5m	
....4 R306	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP2.4X6.4MM	
....4 R307	2004-004097	R-METAL:1.6Kohm,2%,1/2W,AA,TP6.5x2.5m	
....4 R308	2008-001013	R-FUSIBLE(S):1.2ohm,5%,2WAF,TP3.9x10mm	
....4 R309	2003-002009	R-METAL OXIDE(S):390ohm,5%,2WAF,TP3.9x	
....4 R310	2003-002009	R-METAL OXIDE(S):390ohm,5%,2WAF,TP3.9x	
....4 R401	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R402	2001-001077	R-CARBON(S):150OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R403	2001-001199	R-CARBON(S):91OHM,5%,1/2W,AA,TP2.4X6.4M	
....4 R404	2001-001114	R-CARBON(S):270OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R405	2001-000020	R-CARBON(S):220OHM,5%,1/2W,AA,TP2.4X6.4M	
....4 R407	2003-002008	R-METAL OXIDE(S):18Kohm,5%,2WAF,TP3.9x	
....4 R408	2003-000540	R-METAL OXIDE(S):1Kohm,5%,2WAF,TP4x12m	
....4 R413	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2WAF,TP3.9x10	
....4 R414	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2WAF,TP3.9x10	
....4 R416	2004-001402	R-METAL(S):6.8Kohm,1%,1/2W,AA,TP2.4x6.4	
....4 R417	2004-001405	R-METAL(S):79Kohm,1%,1/2W,AA,TP2.4x6.4m	
....4 R419	2003-002024	R-METAL OXIDE(S):91Kohm,5%,2WAF,TP3.9x	
....4 R420	2003-002024	R-METAL OXIDE(S):91Kohm,5%,2WAF,TP3.9x	
....4 R423	2003-002007	R-METAL OXIDE(S):4.7Kohm,5%,2WAF,TP3.9	
....4 R501H	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP3.7	
....4 R502H	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP3.7	
....4 R504	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R505	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R506	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R511	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP3.7	
....4 R512	2008-000299	R-FUSIBLE(S):47ohm,5%,2WAF,TP3.9x10mm	
....4 R513	2008-000292	R-FUSIBLE(S):3.3ohm,5%,2WAF,TP3.9x10mm	
....4 R514	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R609	2001-000773	R-CARBON:470KOHM,5%,1/2W,AA,TP1.8X3.2M	
....4 R610	2008-000292	R-FUSIBLE(S):3.3ohm,5%,2WAF,TP3.9x10mm	
....4 R611	2008-000292	R-FUSIBLE(S):3.3ohm,5%,2WAF,TP3.9x10mm	
....4 R612	2001-000331	R-CARBON:12KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R613	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP1.8X3.2M	
....4 R618	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R619	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R620	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R621	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R622	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R623	2001-000019	R-CARBON(S):100HM,5%,1/2W,AA,TP2.4X6.4M	
....4 R707	2001-000969	R-CARBON:750OHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R801	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2WAF,TP3.9x	
....4 R802	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2WAF,TP3.9x	
....4 R803	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R804	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R805	2001-001086	R-CARBON(S):18KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R806	2001-000019	R-CARBON(S):3.9KOHM,5%,1/2W,AA,TP2.4X6.4M	
....4 R807	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R808	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R809	2001-000109	R-CARBON(S):470OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R810	2001-001192	R-CARBON(S):820OHM,5%,1/2W,AA,TP2.4X6.4	
....4 R812	2001-001122	R-CARBON(S):3.9KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R813	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R814	2001-000563	R-CARBON:27KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R815	2008-000294	R-FUSIBLE(S):33ohm,5%,2WAF,TP3.9x10mm	
....4 R816	2008-000266	R-FUSIBLE(S):1ohm,5%,2WAF,TP3.9x10mm	
....4 R818	2003-000998	R-METAL OXIDE:300ohm,5%,2WAF,TP3.9x10m	
....4 R819	2003-002064	R-METAL OXIDE:7.5ohm,5%,2WAF,TP10x3.9m	
....4 R820	2003-002064	R-METAL OXIDE:7.5ohm,5%,2WAF,TP10x3.9m	
....4 R821	2003-002064	R-METAL OXIDE:7.5ohm,5%,2WAF,TP10x3.9m	
....4 R822	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP1.8X3.2MM	
....4 R823	2004-001390	R-METAL(S):1Kohm,2%,1/2W,AA,TP2.4x6.4mm	
....4 R824	2004-001371	R-METAL(S):1.5Kohm,1%,1/2W,AA,TP2.4x6.4	
....4 R825	2001-001131	R-CARBON(S):33KOHM,5%,1/2W,AA,TP2.4X6.4	
....4 R826	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP2.4x6.4	
....4 R830	2003-000586	R-METAL OXIDE(S):22Kohm,5%,2WAF,TP4x12	
....4 R831	2003-000586	R-METAL OXIDE(S):22Kohm,5%,2WAF,TP4x12	
....4 R832	2003-000532	R-METAL OXIDE(S):18ohm,5%,2WAF,TP4x12m	
....4 R834	2004-001377	R-METAL(S):120Kohm,1%,1/2W,AA,TP2.4x6.4	
....4 R8401S	2004-001390	R-METAL(S):1Kohm,2%,1/2W,AA,TP2.4x6.4mm	
....4 RX801S	2002-001011	R-COMPOSITION:3.3Mohm,5%,1/2W,AA,TP3.7x	
....4 RY801S	2002-001012	R-COMPOSITION:8.2Mohm,5%,1/2W,AA,TP3.7x	
....4 SW202	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW203	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW204	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW205	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
....4 SW206	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	



## Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
△ ....4 VX801S	1405-000187	VARISTOR:750V,1250A,12.5x7mm,TP					
....4 X201	2801-003433	CRYSTAL-UNIT:12MHZ,30PPM,28-AAM,30PF,300					
....4 Z201	2903-001040	FILTER-CERAMIC;TR,5.5/6.0/6.5MHz,-,1dB,-					
.2	AA39-20010B	LEAD CONNECTOR-ASSY;1P,YFH800-01,S,500,					
.2	AA65-30009A	CLAMP-FBT:ABS,V0,BLK,-,-,-	S.N.A				
.2	AA65-30018A	CLAMP-WIRE:NYLON-66,-,-,DATL-600,DONG-A,	S.N.A				
.2	AA65-30111A	CLAMP-WIRE:NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A				

## ASSY CRT

1 *	AA94-03559A	ASSY CRT:A51QDX991X101,+380MG,21 INCH,I	
△ .2	AA03-00257A	CRT COLOR:A51QDX991X101,380MG,1.85MH,18.	

## ASSY CABINET FRONT

1 *	AA91-00702A	ASSY CABINET FRONT;21K2,(SPK)SV012P MPP	
.2 KC+CF	6003-001019	SCREW-TAPTITE:RH,+,B,M4,L12,ZPC(BLK),SWR	
.2 KNOPOW	AA61-60003J	SPRING-CS:-,SUS304,0.5,0D6,H12,N7,-,-,-	
.2 SPK+CF	6003-001019	SCREW-TAPTITE:RH,+,B,M4,L12,ZPC(BLK),SWR	
.2 WIN+CF	6003-001019	SCREW-TAPTITE:RH,+,B,M4,L12,ZPC(BLK),SWR	
.2	AA64-01702B	KNOB CONTROL:21K2,ABS,G3676,SV104M+W971,	
.2	AA64-01701B	KNOB POWER:21K2,ABS,G3676,SV104M+W971,HB	
.2	AA65-00011C	CLAMP-WIRE:ALL MODEL,NYLON 66,V2,NTR,25M	S.N.A
.2	AA65-30105A	CLAMP-WIRE:NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
.2	AA96-00663A	ASSY SPEAKER:-,8OHM,3W,3001-001020,300M/	
.3	3001-001020	SPEAKER:3W,8ohm,90dB,140Hz	
.3	AA39-20501F	LEAD CONNECTOR ASSY;3(2)P;67096-003,REC	
.2	AA61-40113A	STOPPER-PCB:501H,HIPS,-,-,HB,NTR,-	
.2	AA64-01694B	WINDOW REMOCON:15K2,ACRYL,CLR	
.2	AA64-01697B	DECORATION-POWER:15K2,PC,SEMI-VIOLET	
.2	AA64-01699B	CABINET FRONT:21K2,SV012P MPP,HIPS,HB,G7	

## ASSY CABINET

1 *	AA90-00847B	ASSY CABINET;21K2,CS21K2DX/NWT	
.2 CB+CF	AA60-10050T	SCREW-TAPPING:-,SWRCH18A,M4,L20,RH,+,2S,	
.2 CB+RJ	AA60-10050T	SCREW-TAPPING:-,SWRCH18A,M4,L20,RH,+,2S,	
.2 CRT	AA60-10050R	SCREW-ASSY:-,SWRCH18A,M5,L31.5,HH,+,WC,-	
.2 D-COIL	AA65-00009B	CLAMP-D,COIL:NYLON 66,V0,-,-,21A8,-	S.N.A
.2	AA65-30008A	CLAMP-CORD:PE,HB,BLK,-,-,-	
.2	AA64-01700B	CABINET BACK:21K2,HIPS,V2,BLK	

## ASSY-POWER,CORD

△ 1 *	AA96-20109C	ASSY-POWER,CORD:-,CP2/NO(4.0),H/C300,KKP	
.2	3811-000401	WIRE-PVC CU:BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
.2	AA39-10006X	POWER-CORD:-,KKP419C,KLCE-2F,2.286MT,3P,	
.2	AA61-20284A	HOLDER:-,P-CORD,PPVO,BLK,KE-002	S.N.A

## ASSY ACCESSORY

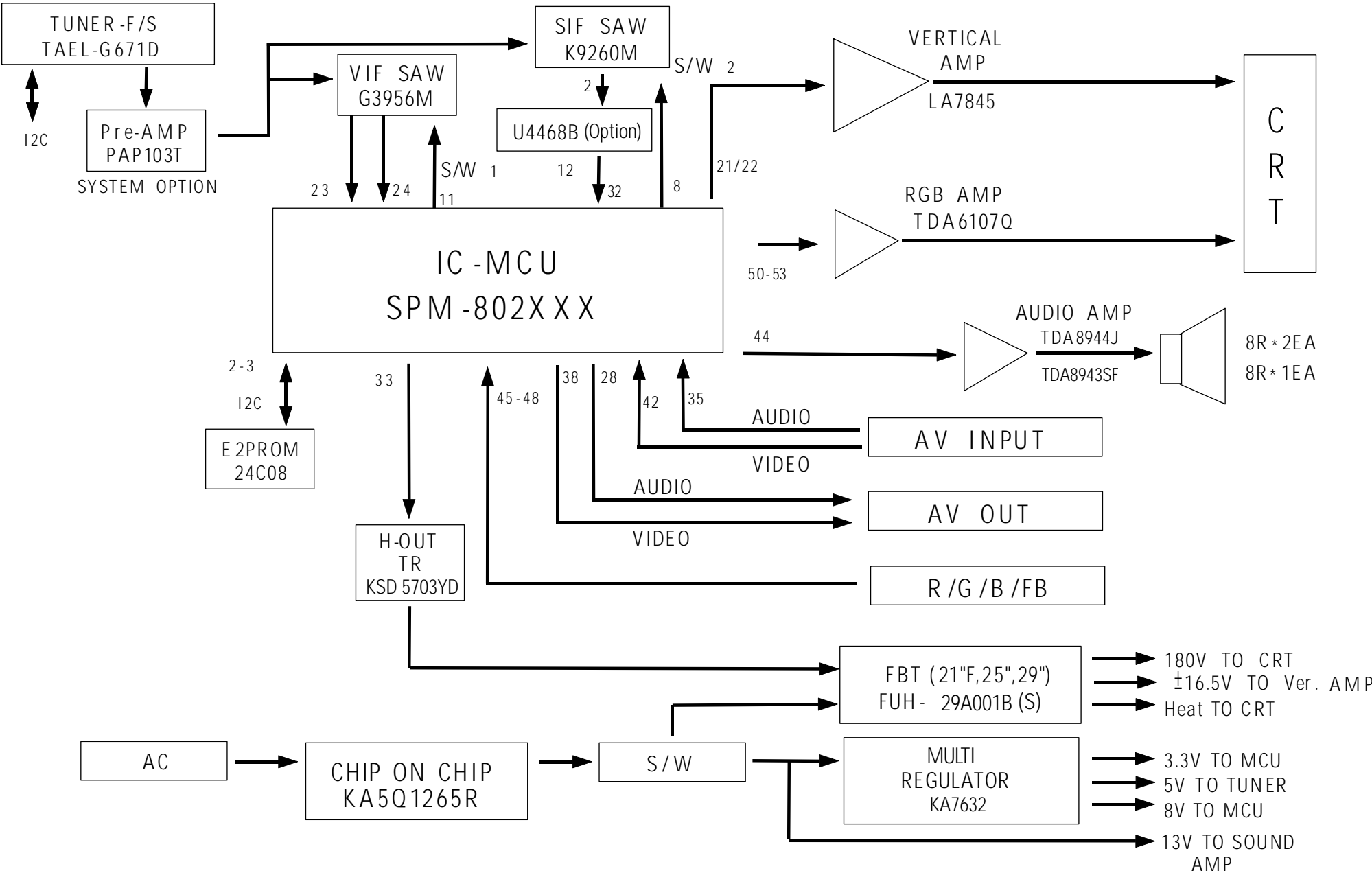
1 *	AA94-03661C	ASSY ACCESSORY:CS21K2DX/NWT,KS1B,UKRAINA	
.2	AA68-01504A	MANUAL USERS:-,N-RUS,W/P100(G),1,KS1B,32P	
.2	AA68-01120A	MANUAL SERVICE:-,CIS,A4,6PAGE(FOLD),W/	
.2	AA42-00003A	ANT ROD:-,3S,720mm,ABS,UL/CSA,-	
.2	AA26-90001C	TRANS-MATCHING:-,300ohm/75ohm,PAL,40-890	

## REMOCON

1 *	AA59-00198D	REMOCON;TM59,DREAM,24,L/GRAY,MONO,NON	
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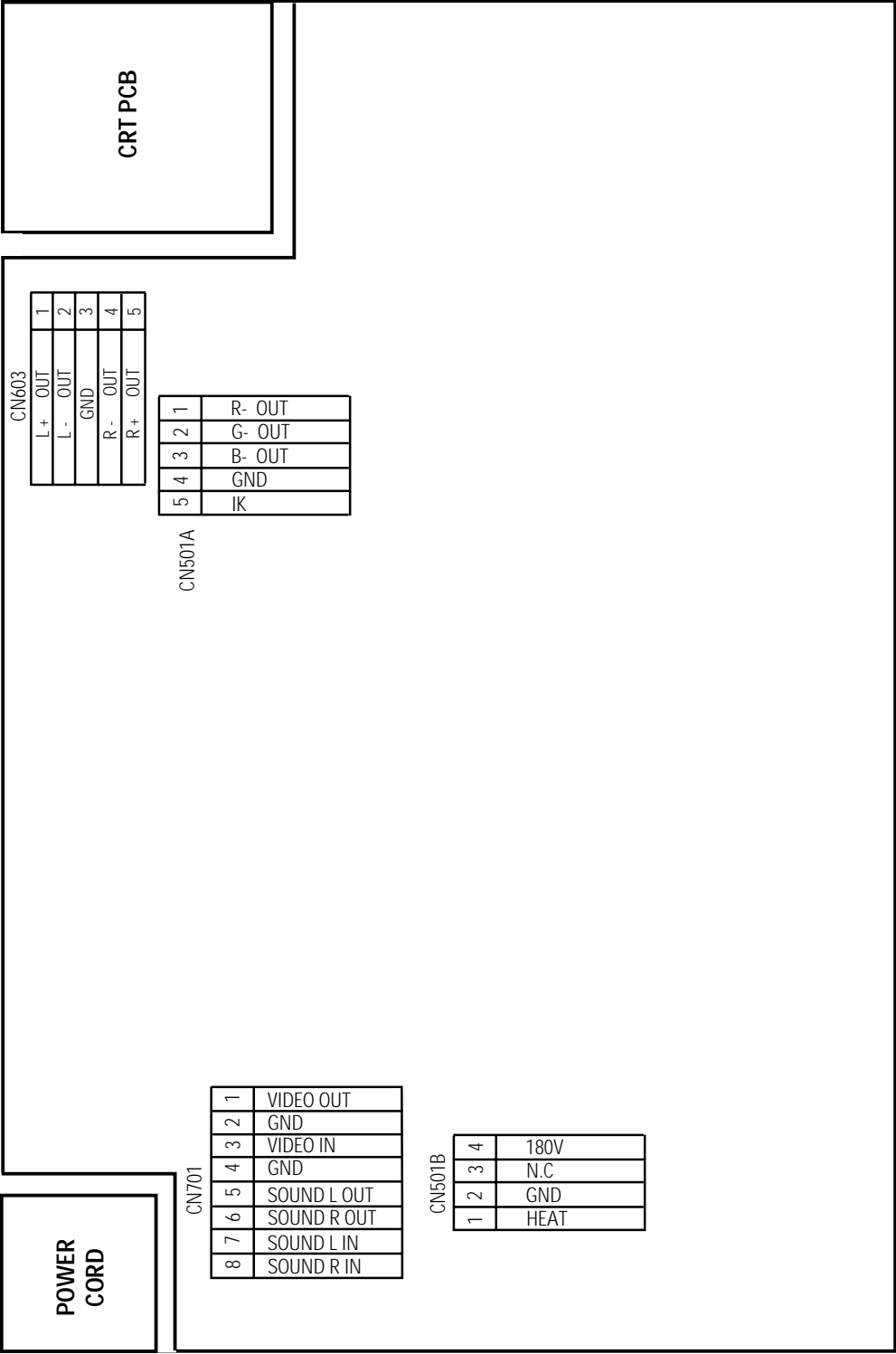
8. Block Diagram

8-1 KS1B



9. Wiring Diagram

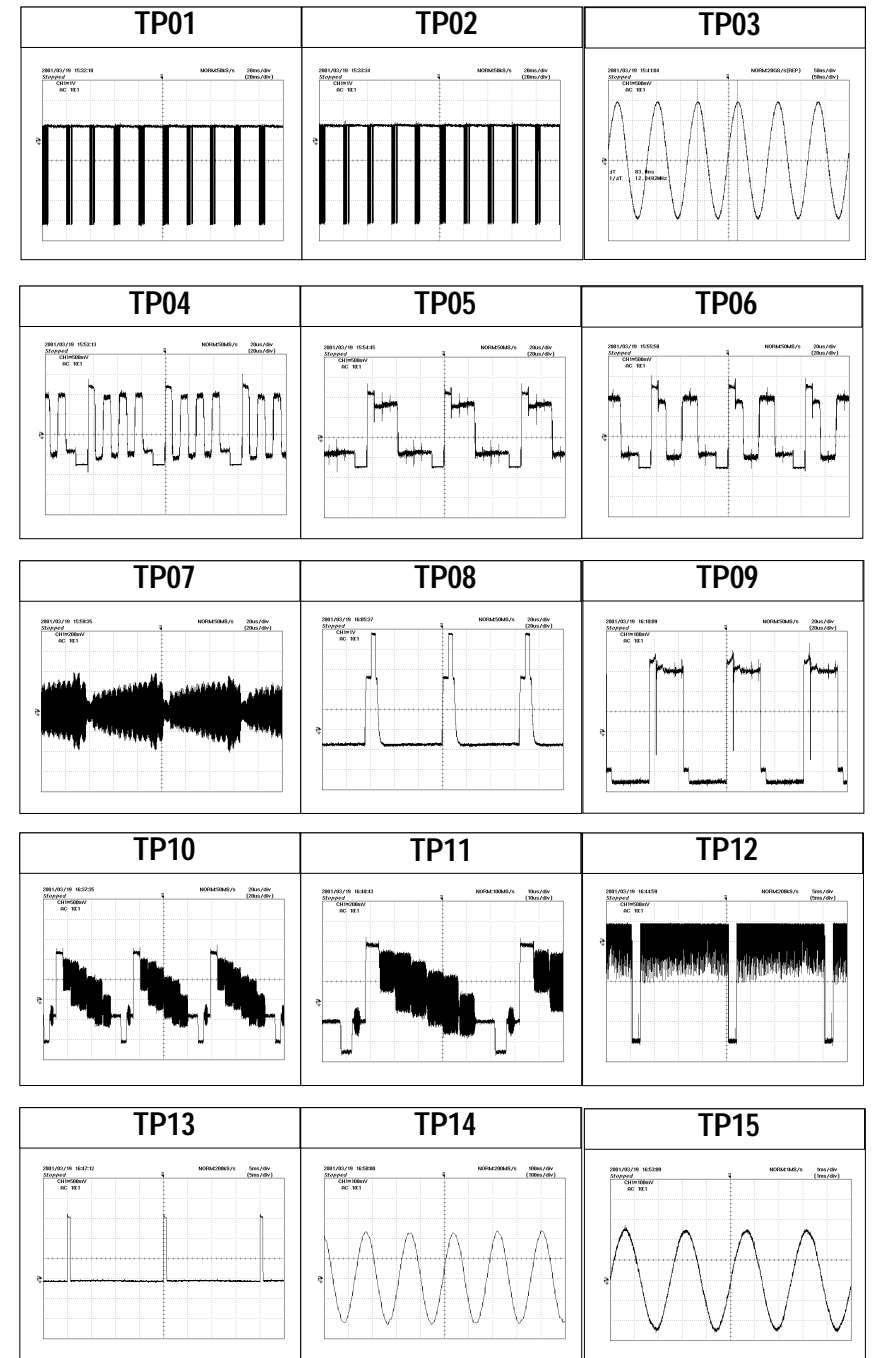
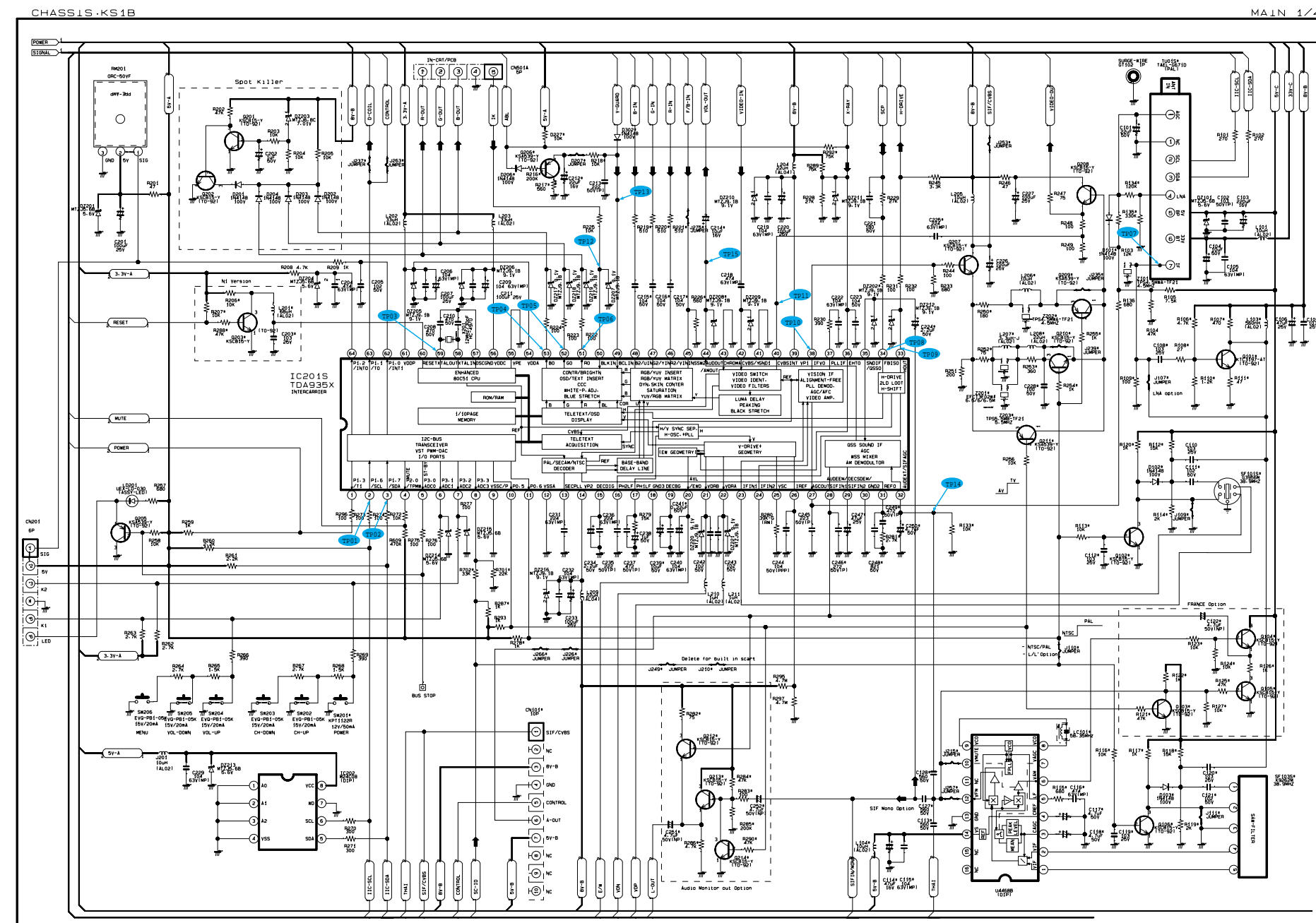
9-1 KS1B



# MEMO

# 10. Schematic Diagrams

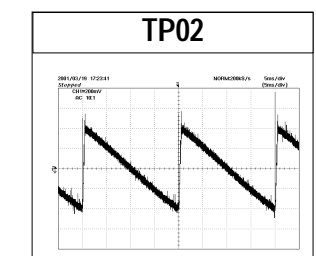
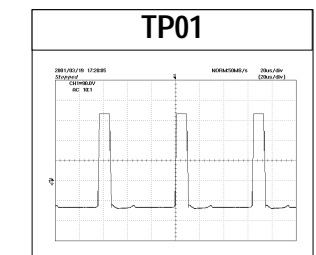
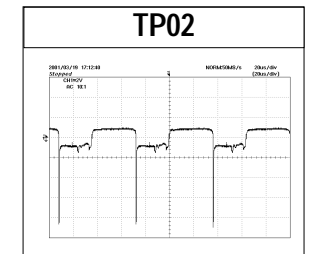
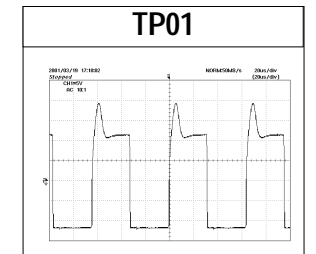
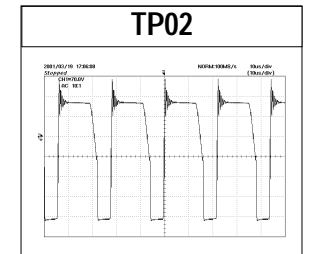
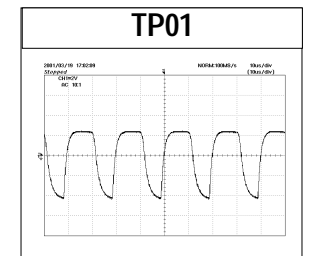
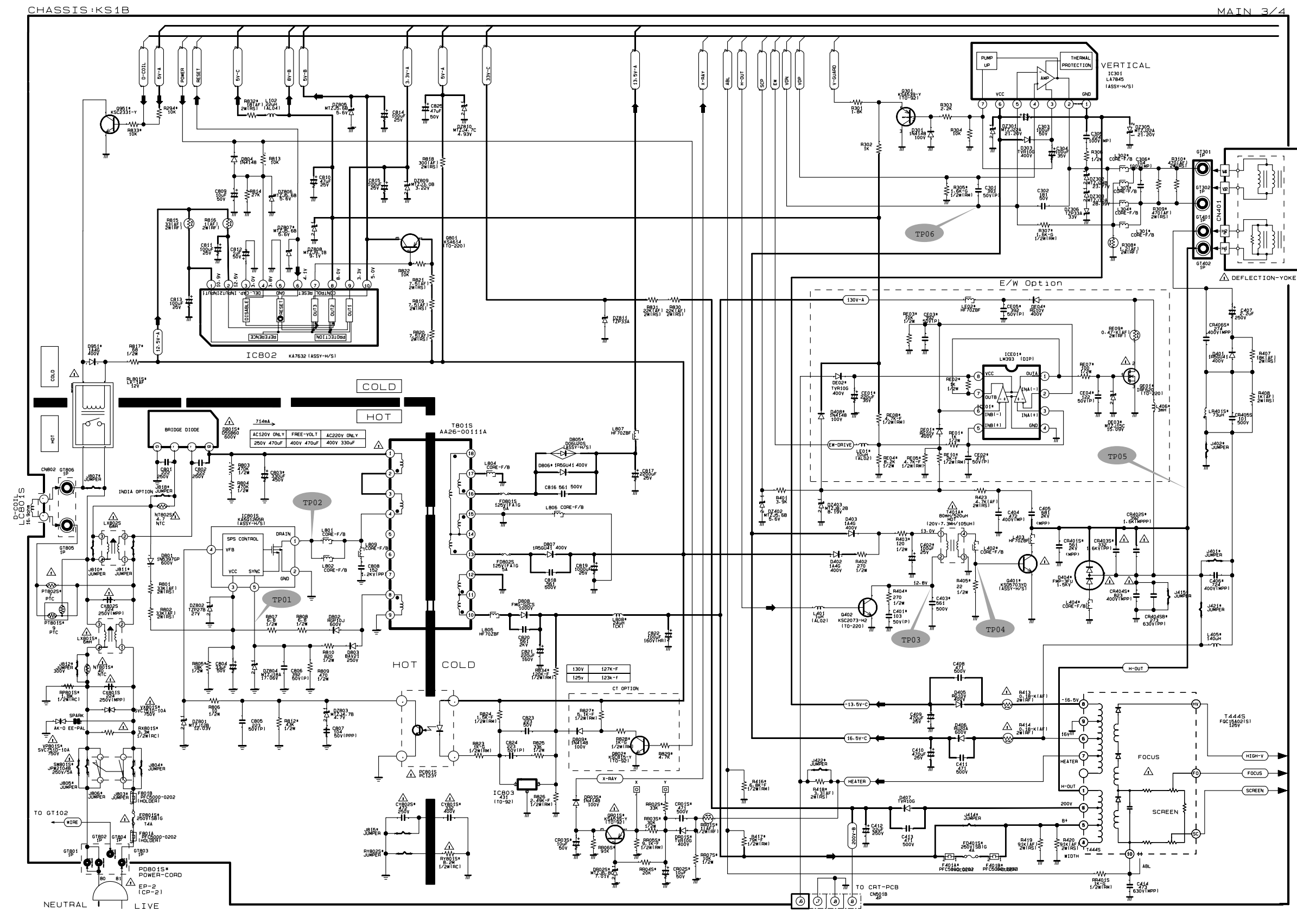
## 10-1 MAIN(1/3)



— : Power Line  
— : Signal Line

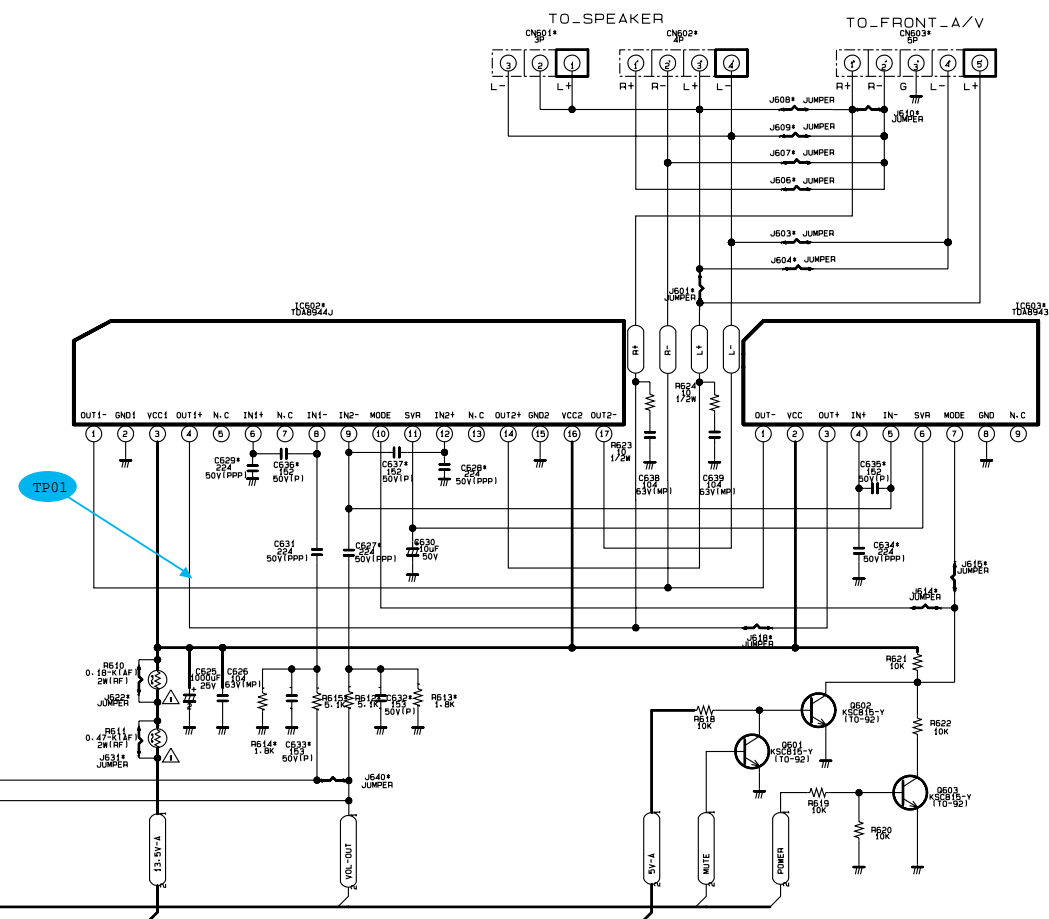
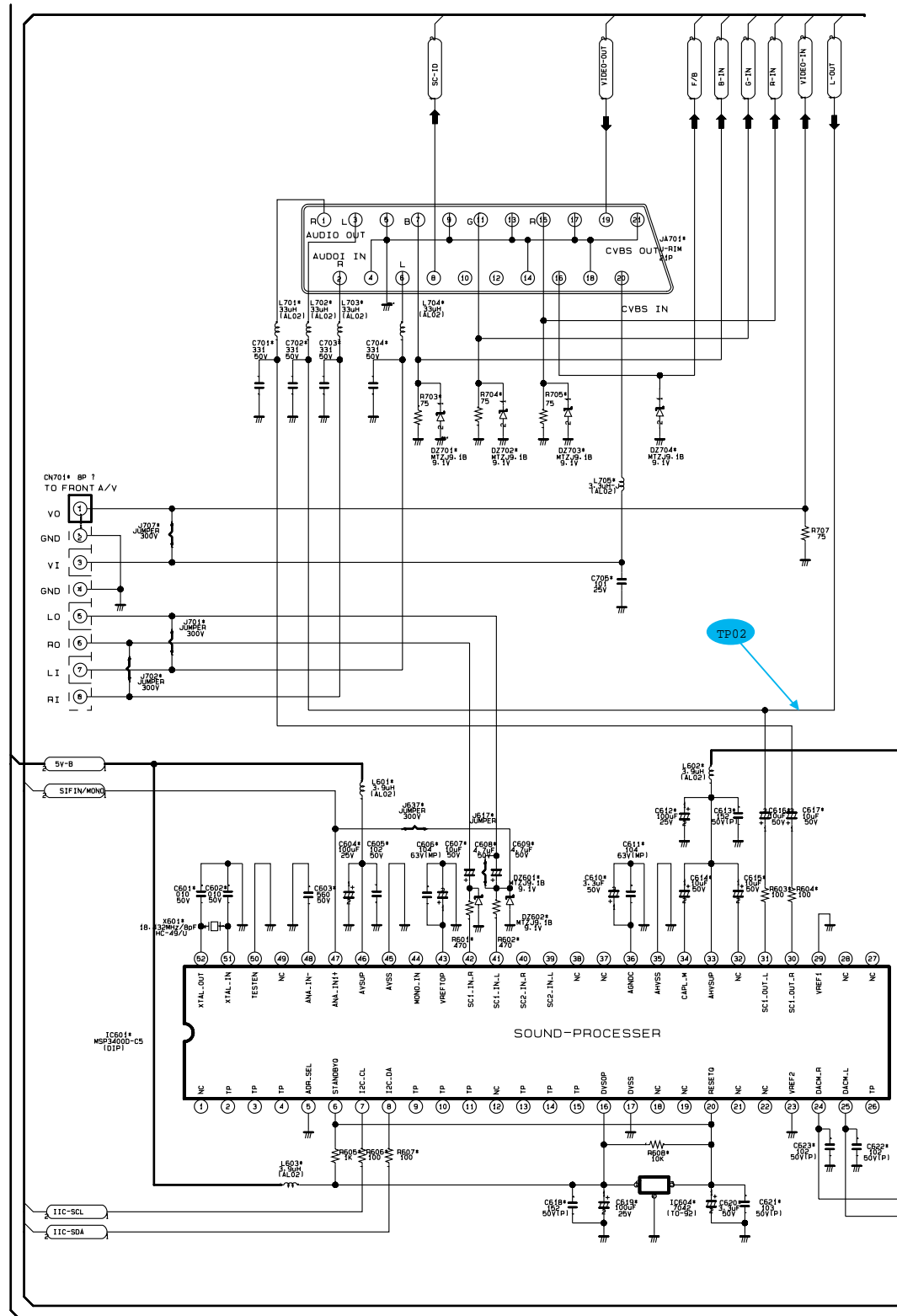


10-2 MAIN(2/3)



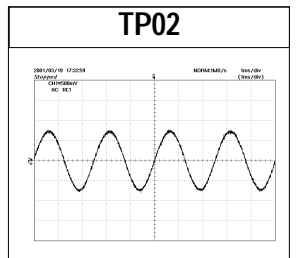
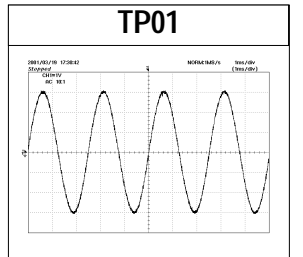
 : Power Line  
 : Signal Line

10-3 MAIN(3/3)



<SOUND OPTION TABLE>

			J608	J609	J610	J601	J607	J606	J603	J604	POST
STEREO	MAIN	H/P[0]	X	X	X	X	X	O	X	O	CN602- CN603
		H/P[X]	X	X	O	O	X	O	X	X	CN602
	A/V	H/P[0]	X	X	X	X	O	X	O	X	CN603
		H/P[X]	X	X	X	X	O	X	O	X	CN603
MONO	MAIN	H/P[0]	X	X	X	X	O	X	O	O	CN602- CN603
		H/P[X]	X	X	O	O	X	O	X	X	CN602
SPK2EA	A/V	H/P[0]	X	X	X	X	O	X	O	X	CN603
		H/P[X]	X	X	X	X	O	X	O	X	CN603
MONO	MAIN	H/P[0]	O	O	X	X	O	X	X	X	CN601
SPK1EA		H/P[X]	O	O	X	X	O	X	X	X	CN601



 : Power Line  
 : Signal Line

10-4 POWER

