

SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : S51A
Model: CX6844N3X/XEE
CX6844W3X/PAR
CX6844W3X/XEG
CX6844W3X/XET

SERVICE *Manual*

COLOR TELEVISION RECEIVER



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1. Precautions

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

1-1 Safety Precautions

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

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

4. Leakage Current Hot Check (Figure 1-1):
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI 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.

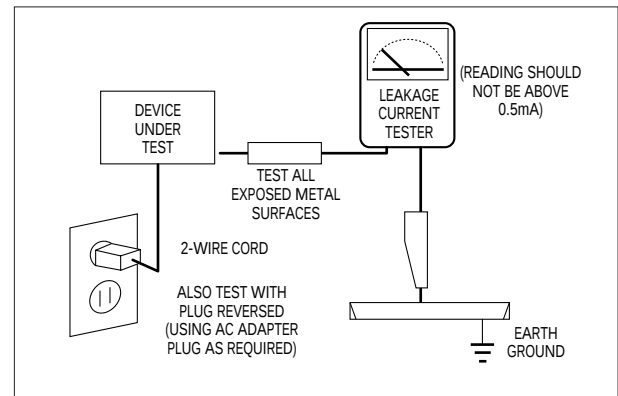


Fig. 1-1 AC Leakage Test

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)

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

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)

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
CB	PAL-B/G
CF	SECAM-L/L', PAL/SECAM-B/G

Channels:

BAND \ SYSTEM	PAL/SECAM -B/G, I	PAL/SECAM -D/K	SECAM-K1, PAL-D
VHF	2-12	1-13	2-9
UHF	21-69	21-69	13-57

Intermediate-Frequencies(MHz):

BAND \ SYSTEM	PAL/SECAM -B/G	PAL/SECAM -D/K, K1	PAL-I	SECAM-L	SECAM-L'
Picture IF Carrier	38.90	38.90	38.90	38.90	34.50
Sound IF Carrier	33.40	32.40	32.90	34.40	41.00
Color Sub Carrier	34.47	34.47	34.47	34.47	38.93

Picture Tube:

21 Inch	A51EER131X31	Quick start, in-line-gun, Black stripe, 90° degree deflection
25 Inch	A59EAK071X01 (Normal) A59EAK552X21 (Invar)	
28 Inch	A66EAK071X01 (Normal) A66EAK552X21 (Invar)	
30 Inch	A70QBZ791X	

Power Requirements: AC 230 V, 50Hz or AC 220 ~ 240 V, 50Hz

Antenna Input Impedance:

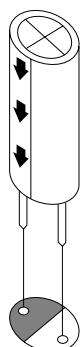
VHF, UHF: Telescopic dipole antenna (75Ω unbalanced type)

Speaker Impedance: 8Ω, 10W + 10W or 16Ω, 5W + 5W (533C only)

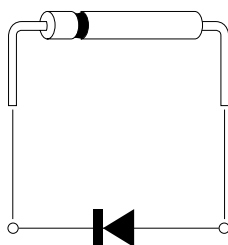
2-2 IC Line Up

LOC NO	NO	Specification	Description	Remarks
HIC101	1	PAP103T	IF PRE-AMP	
IC201	2	TDA8844	PAL/SECAM/NTSC/SECAM-L	
		TDA8843	PAL/NTSC	
IC301	3	LA7845	VERTICAL DEFLECTION AMP	
IC501	4	TDA6108	RGB DRIVE AMP	
IC601	5	TDA7297	SOUND AMP(10W/CH)	
		TDA7266S	SOUND AMP(5W/CH)	
IC701	6	TDA9859	AUDIO PROCESSOR	
IC801	7	KA3S1265R	SMPS IC(12A)	
IC802	8	PC123Y	PHOTO COUPLER	
IC803	9	78R05	SWITCHING REGULATOR	
IC804	10	KA7630	SWITCHING REGULATOR(5,8V)	
IC901	11	SPM171EE	MICOM	
IC902	12	24W16	EEPROM	16K
ICE01	13	4558	EW DRIVE AMP	
ICN01	14	TDA9814T	SIF DETECTOR (SECAM-L)	NICAM MODULE
ICN02	15	TDA9874H	NICAM DEMODULATOR	
ICA01	16	LA7567N	SIF DETECTOR	A2 STEREO MODULE
ICA02	17	TDA9873H	A2 DEMODULATOR	
ICM01	18	LA7566	SIF & FM DETECTOR	MONO
ICS01	19	TEA5114	VIDEO SWITCH	RGB -S/W

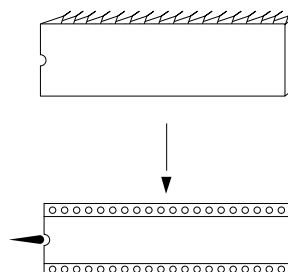
2-3 Semiconductor Base Diagrams

ELECTROLYTIC-
CONDENSER

DIODE

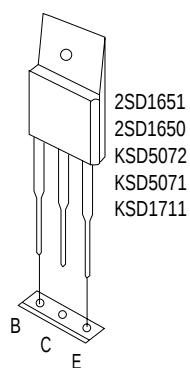


IC



TDA884X(Pin 56)
SPM171EX(Pin 52)
24W16(Pin 8)
TDA9859(Pin 32)

TRANSISTOR



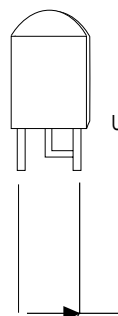
2SD1651
2SD1650
KSD5072
KSD5071
KSD1711

TRANSISTOR



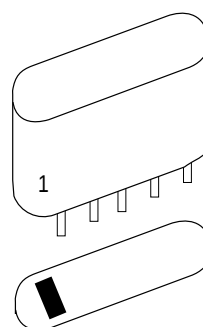
KSA815-Y
KSA539-Y

IC

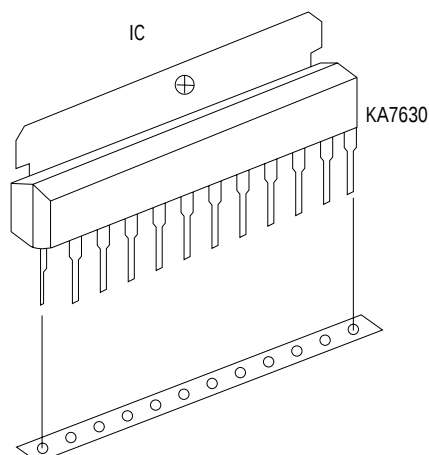


UPC574J
or
KA33V

SAW-FILTER

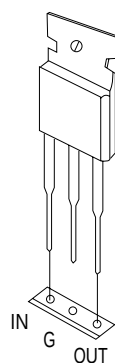


G1962
K2950M
K9253M
G3956M



KA7630

TRANSISTOR



KA7812

TRANSISTOR



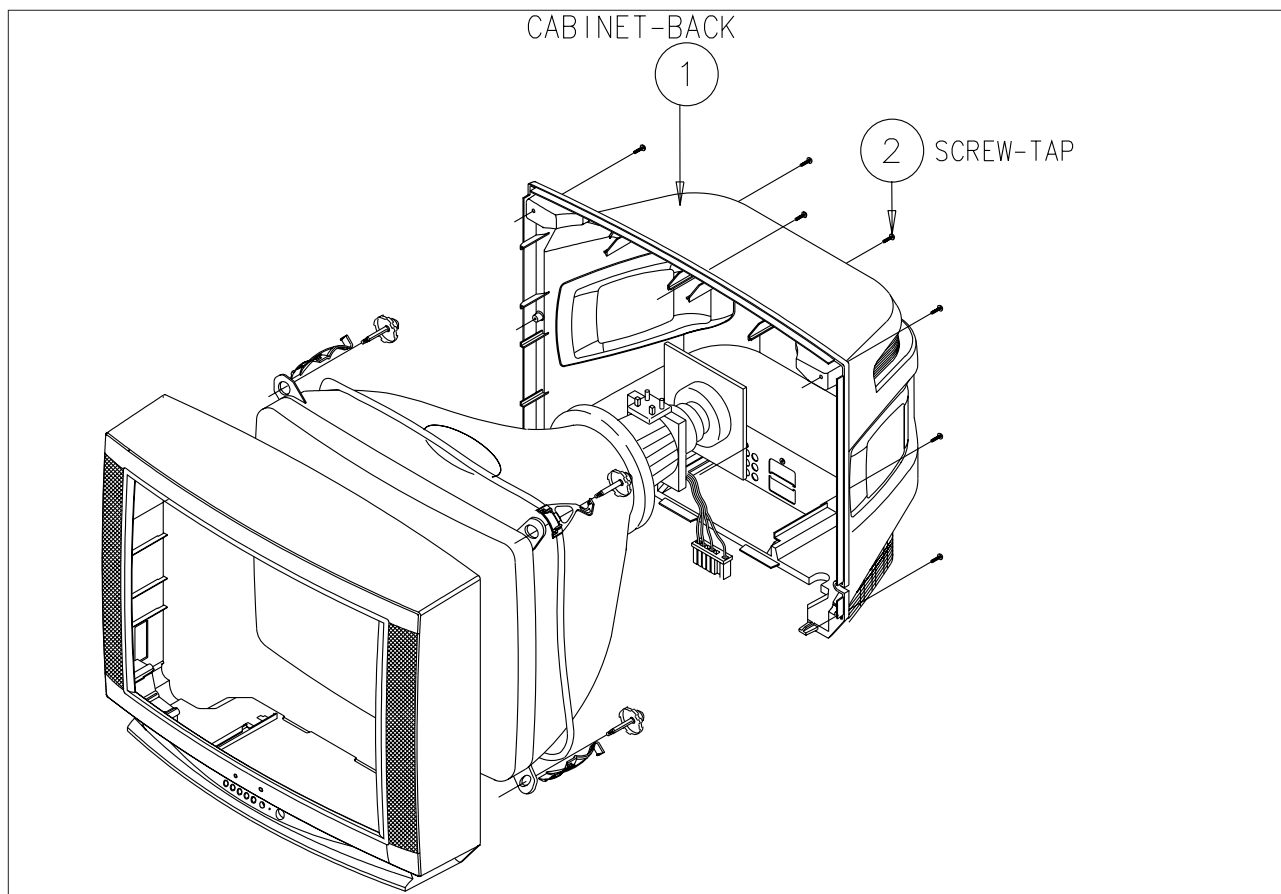
KSR1012
KSR1010
KSR2010

Fig. 2-1 Semiconductor Base Diagrams

MEMO

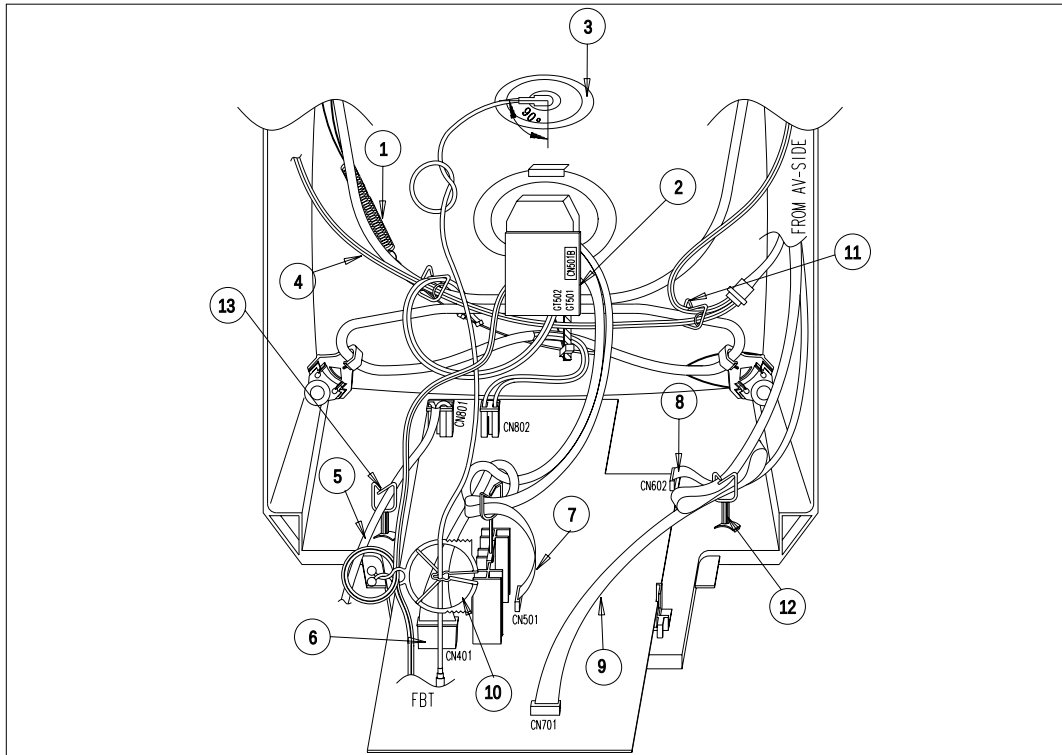
3. Disassembly and Reassembly

3-1 Back Cover Removal



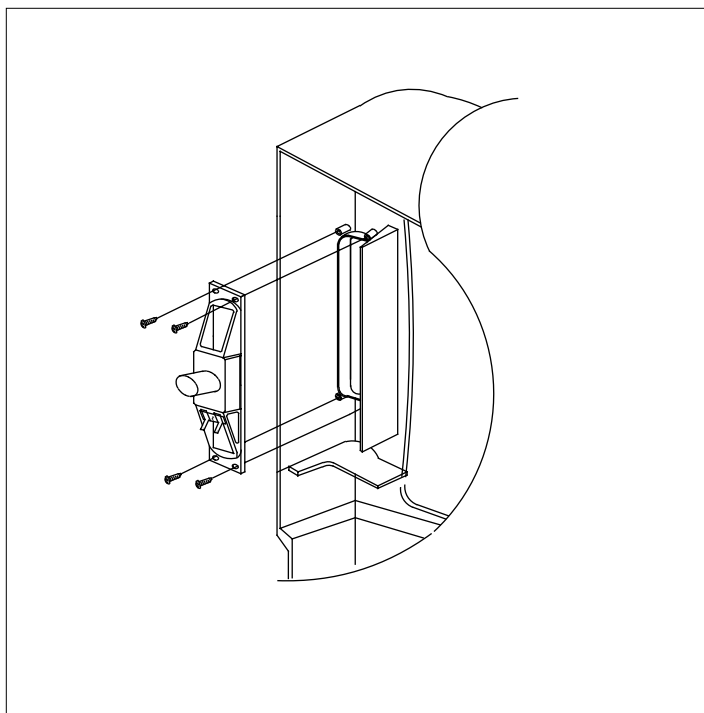
1. After removing the 7 screws, pull the cabinet backwards.

3-2 Main Board Removal

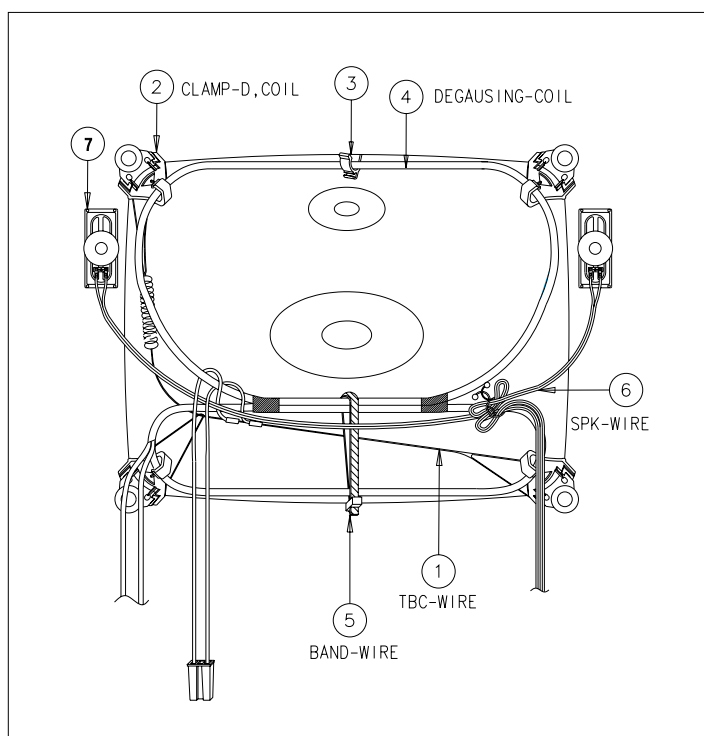


1. Separate the TBC-wire 2P connector from GT501,GT502.
2. Separate the CRT Assembly from the CRT socket.
3. Remove the Anode Cap from the CRT.
4. Separate the D-Coil Connector from CN802.
5. Separate the AC cord from CN801.
6. Separate the DC connector from CN401.
7. Separate the CN501B 8P CRT connector from CN501.
8. Separate the CNA05 5P A/V side connector from CN602.
9. Separate the CNA01 8P CRT connector from CN701.
10. Separate the Focus Screen Wire from the FBT clamper.
11. Separate the TBC wire 2P, speaker wires from the wire clamper.
12. Separate the CN701, CN602 connector from the wire clamper.
13. Separate the AC cord from the wire clamper.
14. Remove the main board by pulling it with both hands.

3-3 Speaker Removal

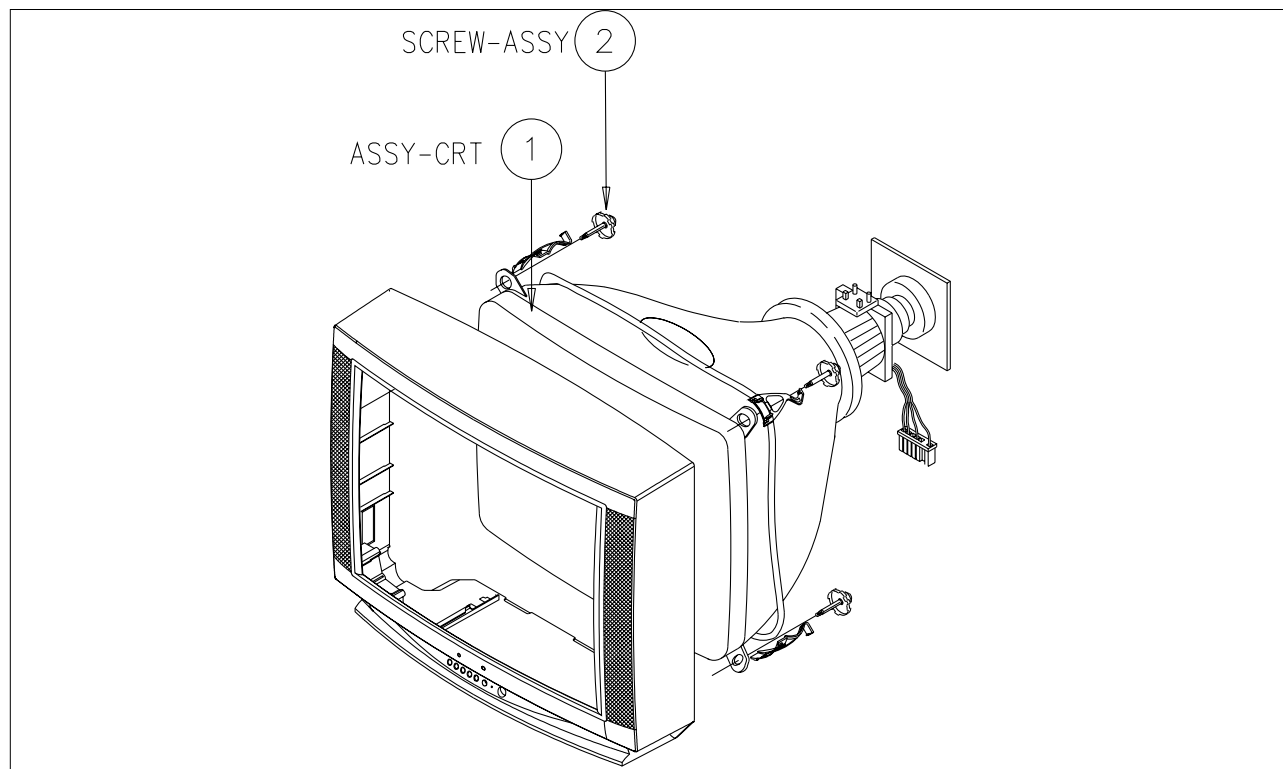


1. Remove the speaker by pressing the tension rib.



1. Separate the speaker wires from D-coil (located on the bottom to the right side).
2. Remove the screws.

3-4 CRT Removal



1. Remove the 4 nuts that mount the CRT to the front cabinet.
Pull the CRT backwards.
2. 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 (IC902) 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 (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 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, Sub-Contrast
Vertical Center
Vertical Size
Horizontal Size
Fail Safe (This adjustment must be the last step).

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) STAND-BY → DISPLAY → MENU → MUTE → POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has three components: Adjustment, 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 PAL system:

DOWN or UP key:

AGC ↔ VCO ↔ SBT ↔ SCT ↔ SCR ↔ SC ↔ RG ↔
BG ↔ CDL ↔ STT ↔ LCO ↔ VOL ↔ PSL ↔ PVS ↔
PVA ↔ PHS ↔ PEW ↔ PEP ↔ PEC ↔ PET ↔ VSC ↔
TSC ↔ SA ↔ QEW ↔ PCT ↔ PTT ↔ PHM ↔ PVP ↔
PHP ↔ NSR ↔ PDL ↔ AGC.

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 "HIDDEN" or "Power OFF/ON" keys.
7. After adjustments are completed, re-start the TV set.

4-2-2 Main Adjustment Parameters

OSD	FUNCTION	RANGE
AGC	AUTO GAIN CONTROL	0 - 63
VCO	VOLTAGE CONTROLLED OSCILLATOR	0 - 127
SBT	SUB BRIGHTNESS	0 - 23
SCT	SUB CONTRAST	0 - 23
SCR	SUB COLOUR	0 - 23
SC	S-CORRECTION	0 - 63
RG	RED DRIVE GAIN	0 - 63
BG	BLUE DRIVE GAIN	0 - 63
CDL	CATHODE DRIVE LEVEL	0 - 7
STT	SUB TINT (FOR NTSC)	0 - 7
LCO	SECAM-L VOLTAGE CONTROLLED OSCILLATOR	0 - 1
VOL	VOLUME INITIAL LEVEL	0 - 63
PSL	PAL VERTICAL SLOPE	0 - 63
PVS	PAL VERTICAL SHIFT	0 - 63
PVA	PAL VERTICAL AMPLITUDE	0 - 63
PHS	PAL HORIZONTAL SHIFT	0 - 63
PEW	PAL E-W WIDTH	0 - 63
PEP	PAL E-W PALABOLA	0 - 63
PEC	PAL E-W CORNER	0 - 63
PET	PAL E-W TRAPEZIUM	0 - 63
VSC	VERTICAL SCROLL	0 - 63
TSC	TELETEXT SUB CONTRAST	0 - 63
SA	SEPARATION ADJUSTMENT (STEREO)	0 - 15
QEW	Q(12.8:9) MODEL E-W WIDTH	0 - 7
PCT	PIP CONTRAST	0 - 15
PTT	PIP TINT	0 - 63
PHM	PIP HORIZONTAL MOVE	0 - 15
PVP	PIP VERTICAL POSITION	0 - 63
PHP	PIP HORIZONTAL POSITION	0 - 63
NSR	NTSC SUB COLOUR	0 - 23
PDL	PAL DELAYTIME	0 - 15

FACTORY MODE VALUE

OSD	INITIAL	OSD	INITIAL	OSD	INITIAL
2 (CH)		LCO	1 (FIXED)	TSC	20(FIXED)
AGC	10	VOL	25	SA	7
VCO	80(FIXED)	PSL	31(FIXED)	QEW	5
SBT	7	PVS	31	PCT	7(FIXED)
SCT	16	PVA	31	PTT	31(FIXED)
SCR	5(FIXED)	PHS	40	PHM	8(FIXED)
SC	11(FIXED)	PEW	38	PVP	31(FIXED)
RG	31	PEP	22	PHP	31(FIXED)
BG	31	PEC	22	NSR	3 (FIXED)
CDL	5	PET	30	PDL	0 (FIXED)
STT	10(FIXED)	VSC	31(FIXED)		

4-2-3 AGING Mode (Reference Only)

This pattern is used for pre-heating the CRT during manufacturing--it is accessed in the factory by twice pressing the "FACTORY " key.

Even if the TV power is cut off, the Aging Mode is not cancelled, The AGING mode is cancelled by repressing the "HIDDEN" or any key on the front pannel.

4-2-4 Option Byte Table

Option Byte
1.ZOOM MODE : NORMAL/ZOOM/16:9
2.AUDIO MODE : NICAM STEREO
3.ONE CHIP : TDA8844
4.LED OPTION : NORMAL
5.LANGUAGE : WEST ENG/GER/FRA/DUT/SPA/ITA/SWE
6.SYSTEM: CX
7.ATS OPTION : ON
8.FIELD POL : FIELD POS

OPTION	OSD	NOTE
ZOOM MODE	PLU/NOR/ZOOM/16:9	12.8 : 9 CRT USED(30",22")
	NORMAL/ZOOM/16:9	NORMAL CRT USED
	NORMAL/ZOOM	
	PLUS/NORMAL	12.8 : 9 CRT USED(26")
AUDIO MODE	NICAM STEREO	NICAM MODULE USED
	STEREO	A2 MODULE USED
	LINE STEREO	MONO MODULE USED (LINE STEREO MODEL)
	MONO	MONO MODULE USED (MONO MODEL)
ONECHIP	TDA8844	CRT(MORE THAN 22-INCH)USED
	TDA8842	CRT(MORE THAN 21-INCH)USED
LED OPTION	NORMAL	DEFAULT
	POLAND	POLAND MODEL ONLY
LANGUAGE	WEST ENG/GER/FRA/DUT/SPA/ ITA/SWE	WEST EUROPE MARKET ENGLISH/GERMANY/FRANCE/ NETHERLANDS/SPAIN/ITALY/SWEDEN
	EAST ENG/CZE/CRO/RUM/HUN/ POL	EAST EUROPE MARKET ENGLISH/CZECH/CROATIA/ROMANIA/ HUNGARY/POLAND
SYSTEM	CF	SECAM-L/L', PAL/SECAM-B/G
	CI	PAL - I (UHF BAND ONLY)
	CK	PAL/SECAM - B/G,D/K
	CX	PAL/SECAM -B/G
	CB	PAL -B/G
ATS OPTION	ON	ATM FUNCTION USED
	OFF	ATM FUNCTION NOT USED
FIELD POL	FIELD POS	PHILIPS CRT USED
	FIELD NEG	OTHER CRT USED

4-2-5 RESET

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

- | | |
|-----------------|----------------|
| 1. Channels | Add/Erase |
| 2. Language | Last condition |
| 3. Station name | Clear |

4-3 Other Adjustments

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 +155 volts (Full color bar input and normal picture level).

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

4-3-4 FOCUS Adjustment

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

4-3-5 Screen Adjustment

1. Connect CRT socket pin GK, BK, RK to an oscilloscope probe.
2. Input a gray scale pattern. (Use a pattern generator, PM5518)
3. Use the Picture mode for the STANDARD picture.
4. Adjust the Screen VR (on the FBT) so that the voltage on the oscilloscope becomes $140 \pm 2.5V$ (See Fig. 4-1).

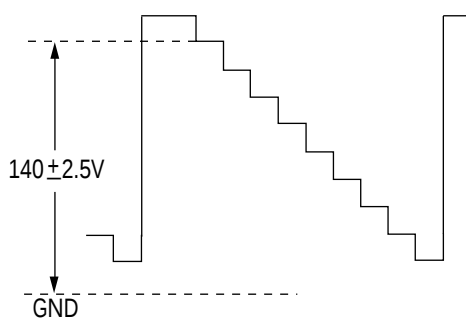


Fig. 4-1

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.

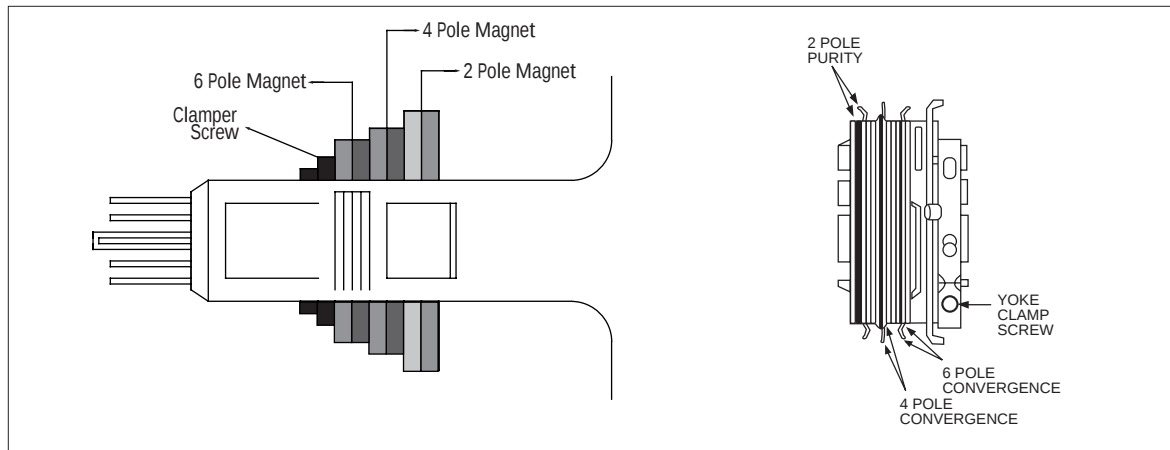


Fig. 4-2 Convergence Magnet Assembly

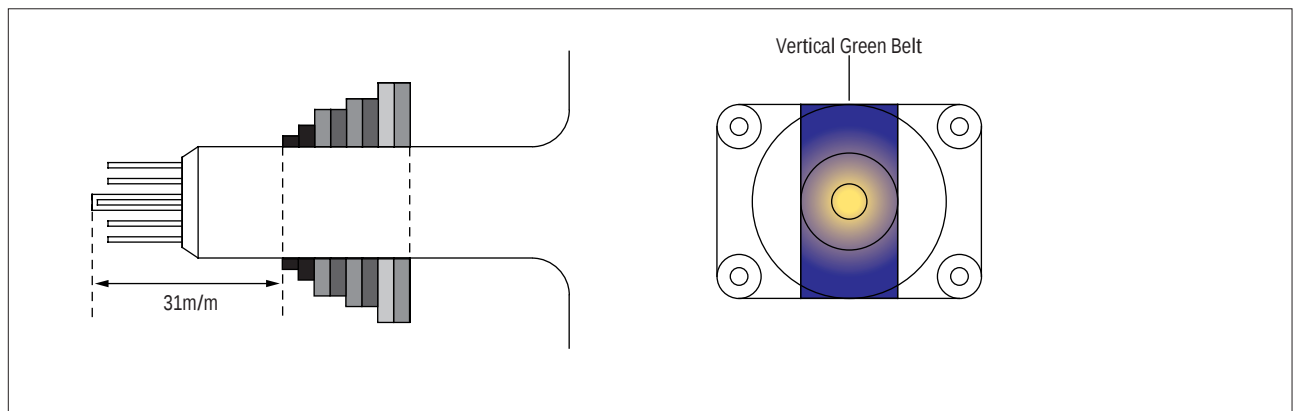


Fig. 4-3 Center Convergence Adjustment

4-3-7 White Balance Adjustment

(a) Set up

1. Warm up the TV for at least 30 minutes in the White Pattern.
2. Input a Toshiba pattern.

(b) High-Light Adjustment

Set SCT to 40 ± 5 fL in the Factory Service Mode with using CA100. (See Fig. 4-4 ①)

(c) Low-Light Adjustment

Set SBT to 1.5 ± 0.2 fL in the Factory Service Mode with using CA100. (See Fig. 4-4 ②)

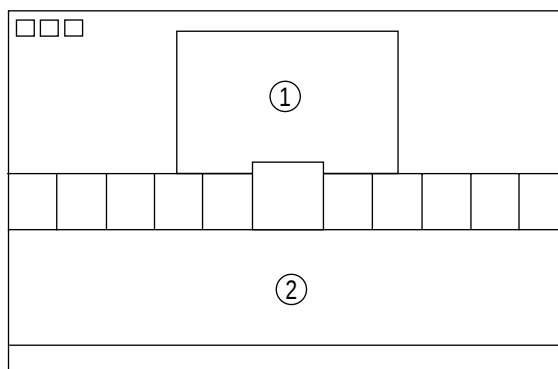


Fig. 4-4

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).



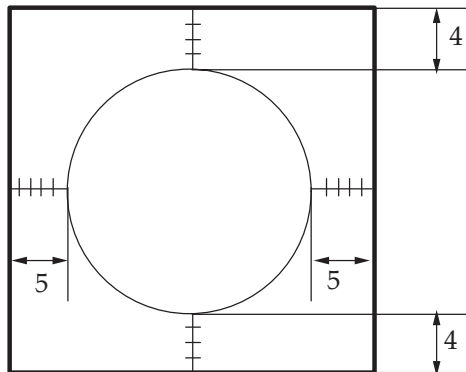
Fig. 4-5 Center Convergence Adjustment

4-3-9 RF AGC Adjustment

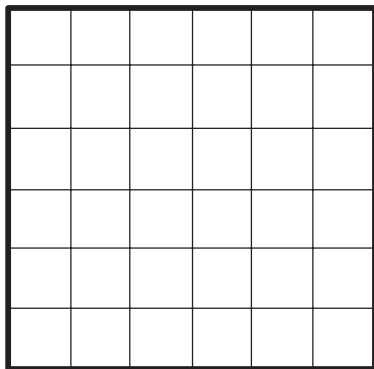
1. Tune to the strongest local station.
2. Enter the Factory Service Mode to make adjustments.
3. Adjust the AGC control until noise(snow) disappears from the screen.

4-3-10 Geometry Adjustment

1. Input a lion head pattern.
2. Adjust PVS so that the picture is vertically centered.
3. Adjust with PVA so that the top and bottom margins of the picture are 4.
4. Adjust PHS so that the picture is horizontally centered.
5. Adjust with PEW so that the left and right margins of the picture are 5.

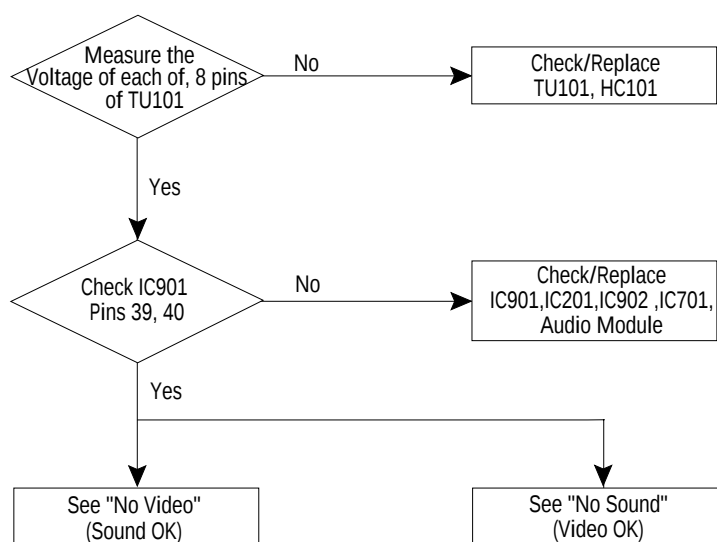


6. Input a crosshatch pattern.
7. Adjust PEP, PEC , PET for vertical linearity.

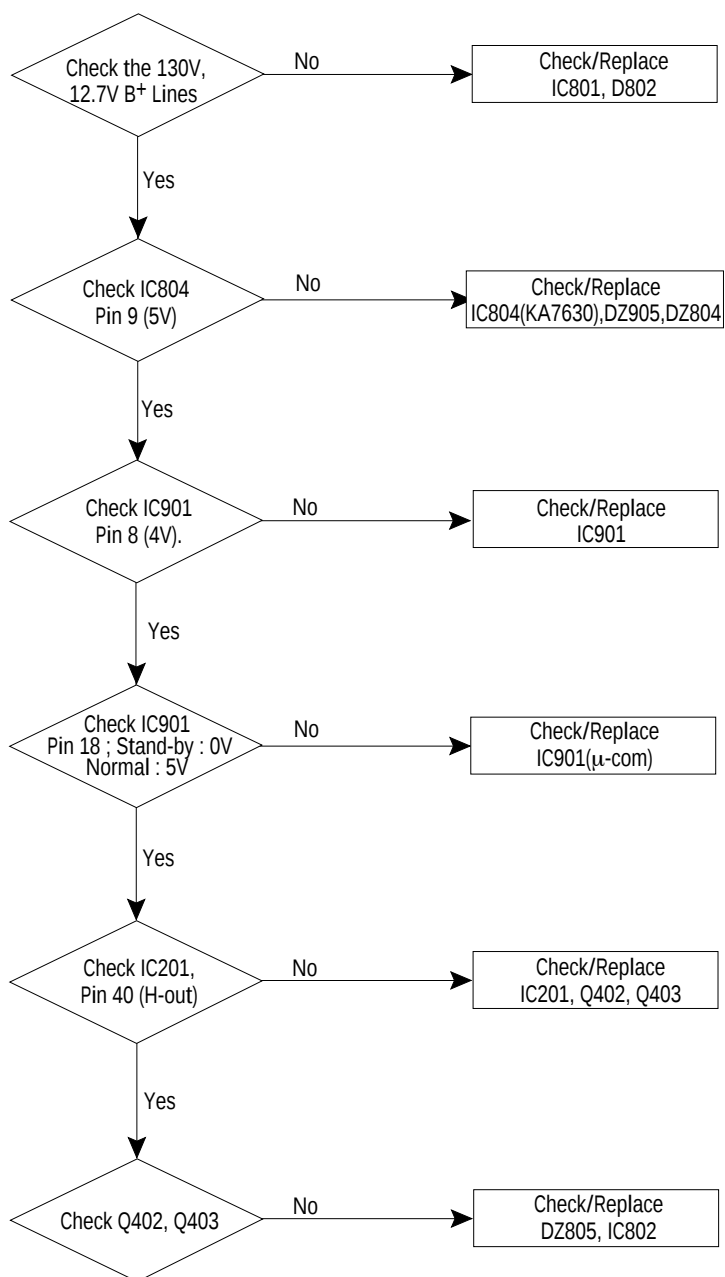


5. Troubleshooting

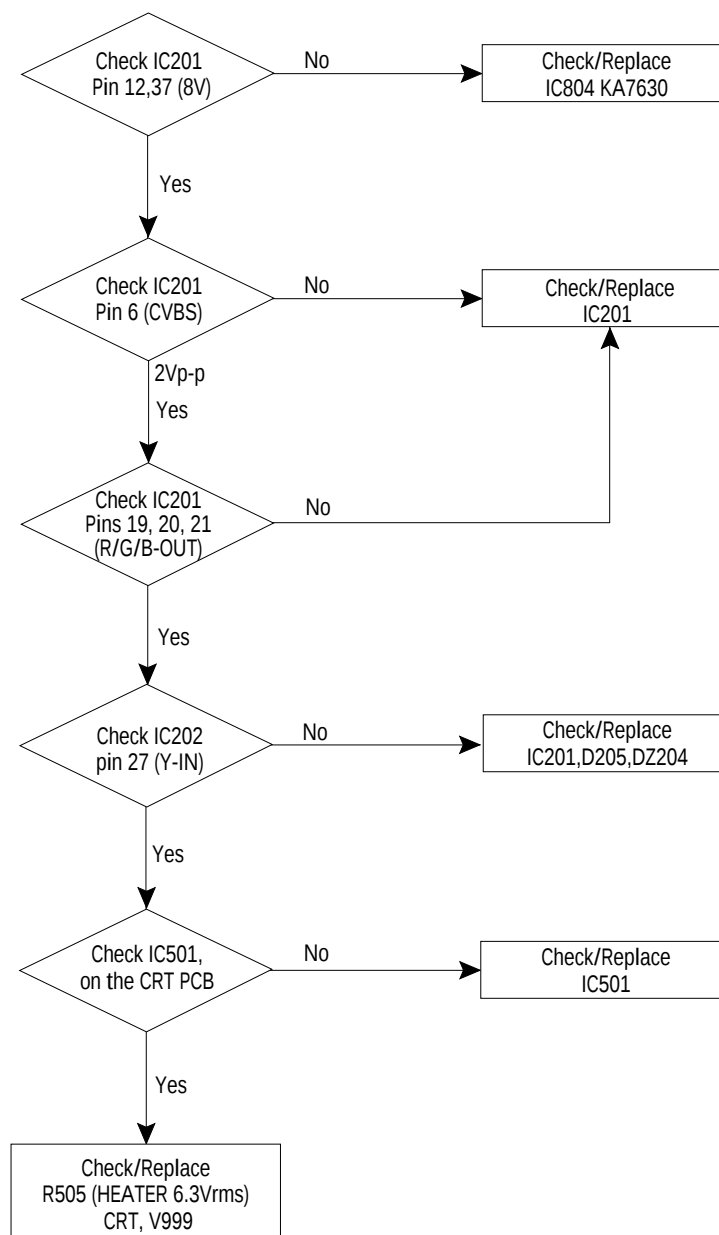
5-1 No Video (Raster On, No Sound)



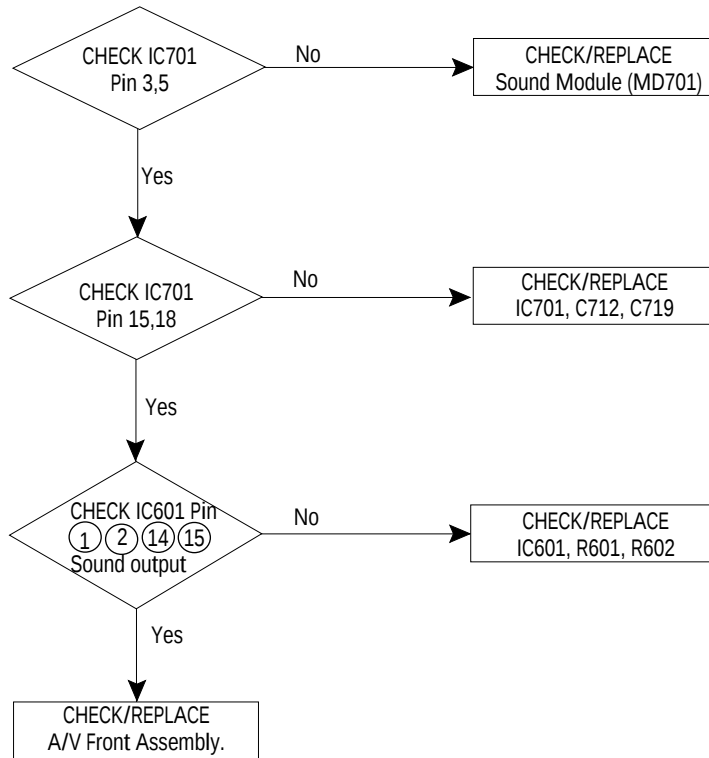
5-2 No Power



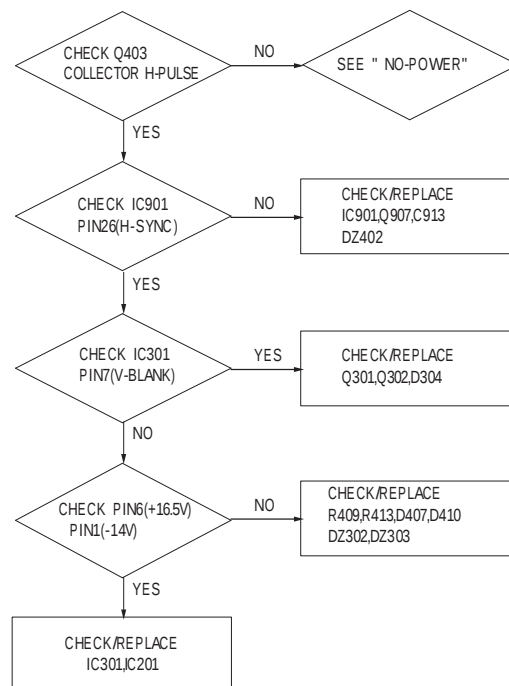
5-3 No Video (Sound OK)



5-4 No Sound (Video OK)



5-5 Power OFF/ON (Repeatedly)

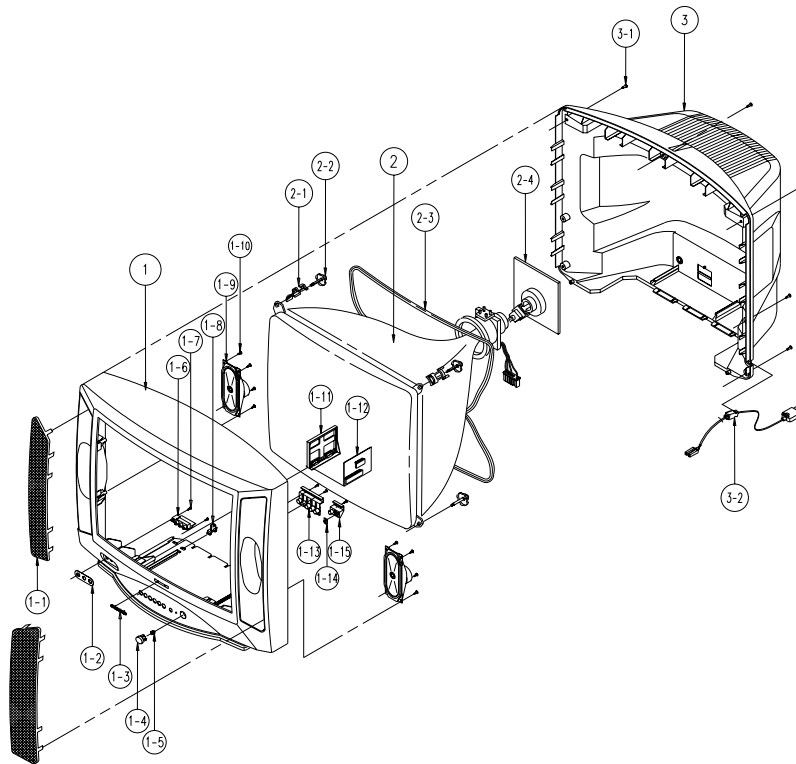


5-6 SMPS (Power Supply) Does Not Function

- (1) When F802 is open:
Check/Replace F802 , IC801 , D802.
- (2) When F802 is okay, but SMPS does not function:
Check/Replace DZ801 , DZ808 , IC802 , DZ805.
- (3) Others: See "5. Troubleshooting"

6. Exploded View & Parts List

6-1 CX6844N3X



No	Code No	Description	Specification	Q'ty	Remark
1	HA91-100014	ASSY-CABINET,FRONT	6844	1	
	HA64-300029	CABINET-FRONT	-,6844,-,HIPS,HB,BLK,-,-	1	
1-1	AA63-50287A	GRILLE-WOOFER,L	DP,6844,AA63-50191A,-,-,-,-	1	
	AA63-50288A	GRILLE-WOOFER,R	DP,6844,AA63-50201A,-,-,-,-	1	
1-2		ASSY-CABINET,FRONT OPTION			
1-3	AA64-70011B	BADGE-BRAND	-,AL,-,L60,SILVER,R2000 SS 25,	1	
1-4	AA64-10348A	KNOB-POWER,M	-,ABS,HB,BLK,-,6844	1	
1-5	AA61-60003M	SPRING-CS	-,SUS304,0.6,OD11.2,H20,N9,-,-	1	
1-6	HA95-900009	ASSY-PCB,A/V FRONT	SCT12A/12B	1	
1-7	AA60-10002A	SCREW-TAPPING	RH,+,M4,L12,ZPC(YEL),-,OD14	2	
1-8	AA61-40053A	STOPPER-PCB	ALL MODEL,HIPS HB,WHT,HB,-,-	1	
1-9	3001-000150	SPEAKER	20W,8ohm,91dB,130Hz	2	
1-10	6002-000514	SCREW-TAPPING	RH,+,2,M4,L15,ZPC(BLK),SWRCH18	8	
1-11	AA61-10068A	BRACKET-PCB	-,M2160,SPT,TO.3,-,-,-	1	
1-12	AA95-40011V	ASSY-SOUND	-,S51A,NICAM,-,-	1	
1-13	AA64-10347A	KNOB-CONTROL	-,ABS,HB,BLK,-,6844	1	
1-14	AA64-40249A	INDICATOR-LED	-,ACRYL,HB,-,-,6844,-	1	
1-15	AA64-40243A	WINDOW-REMOCON	-,PC,-,-,-,-,6844	1	
2	AA03-10018Y	CRT-COLOR	-,A66EAK071X01,+380MG,28,110D	1	
2-1	AA65-30017A	CLAMP-D,COIL	NYLON-66,V0,NTR,DADH300,25 20	4	
2-2	AA60-10050Q	SCREW-ASSY	WC,HH,+,M5,L26.5,SWRCH18A,ZPC(	4	
2-3	AA27-20004G	COIL-DEGAUSSING	-,25,16.9ohm,35T,L2600,E	1	
2-4	3704-001105	SOCKET-CRT	11P,20PI,26.5PI,NI,-	1	
3	HA64-300024	CABINET-BACK	6844,HIPS,V2,BLK,-,-,-	1	
3-1	6002-000514	SCREW-TAPPING	RH,+,2,M4,L15,ZPC(BLK),SWRCH18	8	
3-2	AA96-20014D	ASSY-POWER,CORD	DP,KJP-140,H/C450MM,KLCE-2F,-	1	

7. Electric Parts List

7-1 CX6844W3X/PAR,XEG,XET (CX6844N3X AND CX6844W3X Dissimilar Parts)

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-PCB,MAIN							
		BUYER : AMFO		JA09	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
*	HA94-100422	ASSY-PCB,MAIN;CX6844W3X/PAR,S51A,01		JA10	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
		BUYER : SEG		JA13	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
*	HA94-100423	ASSY-PCB,MAIN;CK6844W3X/XEG,S51A,01		LA01	2701-000168	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
		BUYER : SEI		LA02	2701-000127	INDUCTOR-AXIAL;15uH,10%,2.5x3.4mm	
*	HA94-100462	ASSY-PCB,MAIN;CX6844W3X/XET,S51A,01		LA04	2901-000297	FILTER-EMI ON BOARD;-3A,-,3.5x5,TP-	
				QA01	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	
				QA02	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	
				QA03	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	
				QA04	0504-000119	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
				QA05	0504-000119	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
				QA06	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
				QA07	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
				RA01	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
				RA02	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
				RA03	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
				RA04	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
				RA05	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
				RA06	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
				RA07	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
				RA08	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
				RA09	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
				RA10	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
				RA11	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP,2012	
				RA12	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
				RA13	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
				RA14	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
				RA15	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
				RA16	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
				RA18	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
				RA20	2001-000458	R-CARBON;2.2ohm,5%,1/8W,AA,TP,1.8x3.2mm	
				RA21	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
				RA22	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
				RA23	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
				RA24	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
				RA25	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
				RA26	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
				RA27	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
				RA28	2007-000328	R-CHIP;11KOHM,5%,1/10W,DA,TP,2012	
				RA29	2007-000328	R-CHIP;11KOHM,5%,1/10W,DA,TP,2012	
				RA30	2007-000380	R-CHIP;13KOHM,5%,1/10W,DA,TP,2012	
				RA31	2007-000380	R-CHIP;13KOHM,5%,1/10W,DA,TP,2012	
				SFA01	2904-001054	FILTER-SAW AV;38.9MHz,SIP5P,-,13.9dB,NTS	
				SFA02	2904-001010	FILTER-SAW AV;32.9-33.4MHz,SIP5P,ST,14.4	
				TA01	AA26-10006L	TRANS-IF,-7MG,VIF,-,7mm,39pF,38.9MHz,S	
				XA01	2801-000300	CRYSTAL-UNIT;4MHZ,20PPM,28-AAM,14PF,800H	
				ZA01	2903-000181	FILTER-CERAMIC;TR,5.5MHz,-,-,TP,TPS5.5	
ASSY-SOUND							
*	AA95-40011X	ASSY-SOUND;-,-,S51A,A2 STEREO,-,-					
CA01	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA02	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA03	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012,					
CA04	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA05	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA06	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA08	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm					
CA09	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5					
CA10	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA11	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.					
CA12	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,					
CA13	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,					
CA14	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5					
CA15	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5					
CA16	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5					
CA17	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5					
CA18	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA19	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA20	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,					
CA21	2203-001132	C-CERAMIC,CHIP;680pF,5%,50V,NPO,TP,2012,					
CA22	2203-000495	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,2012					
CA23	2203-001132	C-CERAMIC,CHIP;680pF,5%,50V,NPO,TP,2012,					
CA24	2203-000495	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,2012					
CA25	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5					
CA26	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA27	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA28	2305-000411	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m					
CA29	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA30	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
CA31	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5					
CA32	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CA33	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,					
CNA01	3711-002704	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL					
CNA02	3711-002705	CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGL					
DA01	0401-000160	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP					
DA02	0401-000160	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP					
HA01	AA61-10068A	BRACKET-PCB;- ,M2160,SPT,TO.3,-,-					
ICA01	1204-001456	IC-DEMODULATOR;LA7567N,DIP,24P,212MIL,PL					
ICA02	1204-001459	IC-SOUND;TDA9873H,QFP,44P,-,PLASTIC,5V,					
JA01	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA02	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA03	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA04	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA05	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA06	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA07	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					
JA08	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012					

7-2 CX6844N3X/XEE Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-PCB,MAIN BUYER : SEPOL				C417	2306-001017	C-FILM,MPPF;680NF,5%,400V,TP,26X14.5X24MM,	
* HA94-100417 ASSY-PCB,MAIN;CX6844N3X/XEE,S51A,01				C418	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5	
BOT	0403-000295	DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500mW,		C419	2401-001397	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T	
BOT	2003-001037	R-METAL OXIDE(S);39ohm,5%,2W,AF,TP,3.9x10mm		C421	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11.5	
C102	2401-002594	C-AL;220uF,20%,16V,GP,TP,8x11.5,5		C422	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C103	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C423	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5	
C104	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C424	2401-001527	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m	
C105	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C425	2305-000154	C-FILM,MPEF;100nF,5%,400V,TP,21.5x6.5x11.5	
C106	2401-001082	C-AL;330nF,20%,50V,GP,TP,5x11.5		C427	2201-000984	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6,7.5m	
C107	2401-001082	C-AL;330nF,20%,50V,GP,TP,5x11.5		C504	2202-000862	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP,3.5x1.9,-	
C109	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C506	2301-000213	C-FILM,PEF;220nF,5%,250V,TP,21.5x11,7.5	
C207	2401-001026	C-AL;3.3uF,20%,50V,GP,TP,5x11mm,5mm		C510	2401-000430	C-AL;10uF,20%,250V,GP,TP,10X16MM,5M	
C210	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,		C520	2401-001232	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5	
C211	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11.5		C530	2201-002063	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,TP,16x5,7	
C213	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C601	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11.5	
C214	2401-000660	C-AL;2.2uF,20%,50V,GP,TP,5x11.5		C602	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C215	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		C603	2401-001333	C-AL;470nF,20%,50V,GP,TP,5x11.5	
C216	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5		C604	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C217	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,		C605	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11.5	
C218	2305-000411	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5mm,		C606	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C219	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5		C607	2401-001998	C-AL;1000UF,20%,25V,GP,TP,10X20.5MM	
C220	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11.5		C701	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
C221	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm		C702	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5	
C222	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		C703	2202-000243	C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X19,-,TP	
C223	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C704	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
C224	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C704	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
C225	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C705	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm,	
C226	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11.5		C707	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C227	2201-000986	C-CERAMIC,DISC;12pF,5%,50V,NPO,TP,5x3mm,2.5mm		C709	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	
C228	2201-000273	C-CERAMIC,DISC;18pF,5%,50V,CH,TP,5x3mm,5		C710	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	
C229	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm		C711	2401-002235	C-AL;10uF,20%,16V,GP,TP,5X11MM,5MM	
C230	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm		C712	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C231	2202-000183	C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5x19,-		C713	2301-000247	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C232	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		C714	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5	
C233	2309-000138	C-FILM,PE-PFP;100nF,5%,50V,TP,20x16x8.5,7.5m		C715	2401-001991	C-AL;2.2uF,20%,50V,GP,TP,5x11.5	
C234	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm		C716	2401-001991	C-AL;2.2uF,20%,50V,GP,TP,5x11.5	
C236	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		C717	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5	
C237	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,		C718	2301-000247	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5m	
C238	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm		C719	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11.5	
C239	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		C720	2401-002235	C-AL;10uF,20%,16V,GP,TP,5X11MM,5MM	
C240	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5		C721	2301-000175	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m	
C241	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11.5		C722	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm,	
C242	2202-000183	C-CERAMIC,MLC-AXIAL;2.2nF,20%,16V,Y5R,TP,3.5x19,-		C723	2301-000175	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5m	
C243	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11.5		C725	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm,	
C244	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		C727	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5mm,	
C245	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5X4.0X5.0MM,		C730	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
C301	2301-000254	C-FILM,PEF;39nF,5%,50V,TP,7.5x3.5x6.5mm,5		C731	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
C302	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5		C732	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
C303	2201-000259	C-CERAMIC,DISC;180pF,10%,500V,Y5P,TP,6x4,5		C733	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
C304	2301-000212	C-FILM,PEF;220nF,5%,100V,BK,16.0x10.0x24.		C801	2306-000321	C-FILM,MPPF;470nF,5%,275V,TP,-,22.5mm	
C305	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5		C802	2306-000321	C-FILM,MPPF;470nF,5%,275V,TP,-,22.5mm	
C306	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm		C804	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7,7	
C307	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5		C805	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7,7	
C308	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11.5		C806	2401-001140	C-AL;330uF,20%,400V,GP,BK,35x45,10	
C309	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5		C807	2303-000163	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7.5	
C403	2401-000901	C-AL;22uF,20%,160V,GP,TP,10x20,5		C808	2401-002292	C-AL;47uF,20%,25V,WT,TP,8X11,5	
C404	2201-000291	C-CERAMIC,DISC;1nF,10%,500V,Y5P,TP,8.5x5MM,5		C809	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m	
C405	2401-002268	C-AL;2.2uF,20%,250V,LZ,TP,8X11.5		C811	2301-000310	C-FILM,PEF;68nF,5%,50V,TP,8.0X8.5X4.0X5,5	
C406	2306-000188	C-FILM,MPPF;330nF,5%,400V,TP,26x19.5x11,20		C812	2201-002002	C-CERAMIC,DISC;4700pF,20%,400V,+20%~-55%,TP,2	
C407	2201-000984	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6,7.5m		C813	2201-002002	C-CERAMIC,DISC;4700pF,20%,400V,+20%~-55%,TP,2	
C408	2305-000382	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5MM		C814	2201-000683	C-CERAMIC,DISC;850pF,10%,1KV,Y5P,TP,10x5,5	
C409	2201-000551	C-CERAMIC,DISC;470pF,10%,1KV,Y5P,TP,8x5,5		C815	2401-003026	C-AL;330uF,20%,200V,GP,ST,22x35,10	
C410	2401-001397	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T		C816	2401-000293	C-AL;100uF,+30-10%,200V,HR,TP,16x25	
C411	2305-000178	C-FILM,MPEF;10nF,5%,100V,TP,-,5mm		C817	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5	
C412	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5		C818	2401-000722	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C413	2401-000962	C-AL;22uF,20%,50V,GP,TP,5x11.5		C819	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5	
C414	2306-000330	C-FILM,MPPF;7.7nF,3%,1.6KV,TP,28.5x18.5x12		C820	2401-000722	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C415	2306-000178	C-FILM,MPPF;3.9nF,5%,1.6KV,BK,31x15x8.5,20		C821	2401-000293	C-AL;100uF,+30-10%,200V,HR,TP,16x25	
C416	2303-001026	C-FILM,PPF;33nF,10%,400V,TP,20x15x8,7.5		C821	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
				C822	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4,5	
				C823	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
				C824	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
				C825	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0mm,	

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
C826	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		D601	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
C827	2401-002235	C-AL;10uF,20%,16V,GP,TP,5X11MM,5MM		D602	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C828	2401-000493	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm		D801	0402-000213	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41,TP	
C829	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5		D802	0402-001160	DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST	
C830	2401-000611	C-AL;1uF,20%,50V,WT,TP,5x11,5		D803	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	
C831	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5		D804	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C832	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		D805	0402-000231	DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F,ST	
C833	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5		D806	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP	
C834	2201-000370	C-CERAMIC,DISC;220pF,10%,50V,Y5P,TP,4.0X4.0,5		D807	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,5A,-,-	
C901	2201-000234	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3,5		D808	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
C902	2301-000108	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,		D809	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C903	2201-000119	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,8x3.5		D810	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C904	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5		D813	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP	
C905	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,		D901	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C906	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,		D906	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C907	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		D907	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C908	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		D907	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-	
C909	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DE01	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	
C910	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		DT01	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C911	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		DT02	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C913	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm		DT05	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
C914	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5		DV801	1405-000187	VARISTOR;750V,1250A,12.5x7mm,TP	
C915	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5		DV802	1405-000187	VARISTOR;750V,1250A,12.5x7mm,TP	
C916	2201-000980	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm		DZ201	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,	
C917	2201-000980	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0,5mm		DZ202	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500mW,	
C918	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm		DZ203	0403-000298	DIODE-ZENER;MTZ6.8C,6.8V,6.66-7.01V,500mW,	
C919	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ204	0403-000662	DIODE-ZENER;MTZ3.0B,3.0V,3.01-3.22V,500mW,	
C920	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5		DZ205	0403-000551	DIODE-ZENER;MTZ3.9B,3.9V,3.89-4.16V,500mW,	
C921	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-		DZ206	0403-000294	DIODE-ZENER;MTZ4.7B,4.7V,4.45-4.80V,500mW,	
C922	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5		DZ210	0403-000659	DIODE-ZENER;MTZ2.0A,2V,1.88-2.10V,500mW,DO	
C923	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ302	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
C924	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5		DZ303	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
C925	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ304	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
C926	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ305	0403-000494	DIODE-ZENER;MTZ39,39V,35.36-37.2V,500mW,DO	
C927	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ306	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,TP	
C928	2401-001333	C-AL;470nF,20%,50V,GP,TP,5x11,5		DZ402	0403-000300	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,	
CE01	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5		DZ403	0403-000698	DIODE-ZENER;TZP12A,12V,11.4-12.6V,1W,DO-41	
CE02	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,		DZ505	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CE03	2305-000470	C-FILM,MPEF;68nF,5%,100V,TP,-,5mm		DZ601	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
CN501B	AA39-20604A	LEAD CONNECTOR-ASSY;-YBNH250-9,YBNH05/04,5/4P,50		DZ602	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
CN602	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,STRAIGHT,SN		DZ603	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
CN701	3711-002647	CONNECTOR-HEADER;BOX,8P,1R,2.5mm,STRAIGHT,SN		DZ604	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500mW,	
CN802	AA27-20004K	COIL-DEGAUSSING;-29,19.0ohm,45T,3000mm,E		DZ701	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CN901A	3711-002643	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGHT,SN		DZ702	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CT01	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,		DZ703	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CT02	2401-000242	C-AL;100uF,20%,10V,GP,TP,6X11.5MM		DZ704	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CT03	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ705	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
CT04	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.		DZ801	0403-000300	DIODE-ZENER;MTZ8.2B,8.2V,7.78-8.19V,500mW,	
CT05	2202-000164	C-CERAMIC,MLC-AXIAL;180PF,10%,50V,Y5P,3.5X19,-,TP		DZ802	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
CT06	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5		DZ803	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
CT07	2301-000108	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm,		DZ804	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
CT08	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5		DZ805	1203-001217	IC-POS.I.ADJ.UST REG.;431,TO-92,3P,4.58MIL,PLASTIC,2	
CT09	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,		DZ807	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
CW901	2503-000156	C-NETWORK;100pF,4,20%,50V		DZ808	0403-000562	DIODE-ZENER;MTZ7.5B,7.5V,7.07-7.45V,500mW,	
D201	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ901	1203-000451	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLASTIC,31/35V,	
D202	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ904	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500mW,	
D203	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ905	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
D204	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP		DZ906	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500mW,	
D205	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	△	F801	3601-000281	FUSE-FERRULE;250V,4A,TIME LAG,GLASS,5x20mm	
D209	0402-000216	DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-204	F801A	3602-000114	FUSE-HOLDER;-,-,30MOHM		
D210	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	F801B	3602-000114	FUSE-HOLDER;-,-,30MOHM		
D217	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	△	F802	3601-001086	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
D301	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	△	F803	3601-001086	FUSE-FERRULE;125V,5A,FA,GLASS,2.4x7.5mm	
D302	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	GT804-	AA39-20010B	LEAD-CONNECTOR,ASSY;-YFH800-01,S,1P,500,1617#22		
D303	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	△	HC101	AA13-20004WIC-HYBRID;-PAP103T,SIP,6P,PRE-AMP,TP		
D304	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	△	IC201	0904-001294	IC-BUS CONTROLLER;8844;-DIP,56P,600MIL,3.58MHz,	
D401	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP	△	IC301	1204-000517	IC-VERTICAL DEF.;LA7845,SIP,7P,-,PLASTIC,40V,11	
D402	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	△	IC501	1201-001330	IC-VIDEO AMP;6108,ZSIP,9P,-,SINGLE,-,PLASTI	
D403	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	△	IC601	1201-001064	IC-POWER AMP;7297,ZIP,15P,-,DUAL,32DB,PLAST	
D404	0402-001012	DIODE-RECTIFIER;FMP-3FU,1500V,5A,TO-3PF	△	IC701	1204-000473	IC-AUDIO PROCESSOR;TDA9859,DIP,32P,-,PLASTIC,-,-	
D406	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	△	IC801	1203-001482	IC-PWM CONTROLLER;3S1265R,TO-3P,5P,210,PLASTIC,6	
D407	0402-000216	DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-204	△	IC802	0604-001038	PHOTO-COUPLER;TR,130-260%,200MW,DIP-4,ST	
D410	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L,TP	△	IC803	1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4.	
D507	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	△	IC804	1203-000644	IC-POS.I.FIXED REG.;7630,SIP,10P,-,PLASTIC,5.1/8V,	
D508	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	△	IC901	AA13-30021MIC-MCU;-SAA5291PS-135,8bit,SDIP,CK29		
D509	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41,TP	△	IC902	1103-000156	IC-EEPROM;24C04,512X8BIT,DIP,8P,300MIL,1	
D520	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	△	ICE01	1201-000191	IC-OP AMP;4558,DIP,8P,300MIL,DUAL,20V/mV	

Electric Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
JA701	3722-000195	JACK-SCART;42P,-,SN,BLK,NO		R220	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
L101	2701-000326	INDUCTOR-AXIAL;560nH,10%,2.3x3.4mm		R221	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
L102	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R222	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM	
L103	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R223	2001-000617	R-CARBON;3.9Mohm,5%,1/8W,AA,TP,1.8x3.2m	
L202	2701-000197	INDUCTOR-AXIAL;5.6UH,10%,2.5X3.4MM		R224	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L205	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R225	2001-001026	R-CARBON;910ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L206	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM		R226	2001-000793	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
L207	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM		R230	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L208	2701-000142	INDUCTOR-AXIAL;1UH,10%,2.5X3.4MM		R233	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
L303	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R234	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
L401	AA27-40003H	COIL-HORIZ,WIDTH;- ,2MH,DR15X20,2UEW0.35,ST		R235	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
L402	AA27-30003G	COIL-LINERITY;- ,44uH,DR14x15,PI0.2x10,18x33,		R237	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L403	2001-001037	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.4m		R238	2001-001110	R-CARBON(S);240Kohm,5%,1/2W,AA,TP,2.4x6.4m	
L403	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4MM		R239	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L404	AA27-40003L	COIL-HORIZ,WIDTH;- ,1.0MH,DR14X20,2UEW0.45,ST		R240	2001-001125	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m	
L601	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R241	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L603	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R242	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2M	
L701	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R243	2001-000232	R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
L702	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R245	2001-000739	R-CARBON;4.7 MOHM,5%,1/8W,AA,TP,1.8X3.2M	
L703	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R246	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
L704	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R247	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
L705	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R248	2001-000793	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
L706	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R249	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L707	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R250	2001-000938	R-CARBON;68ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L708	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R251	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
L709	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R252	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L710	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R253	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
L801	AA29-30001Q	FILTER-LINE;- ,20MH,1.26A,-,BSF3050		R255	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L802	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R256	2004-001234	R-METAL;75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L803	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R257	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L804	2901-000299	FILTER-EMI ON BOARD;- ,6A,UL/CSA,-,9x7.5,TP,-		R258	2004-001914	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
L805	2701-001032	INDUCTOR-AXIAL;100UH,10%,5X14MM		R259	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
L806	2901-000297	FILTER-EMI ON BOARD;- ,3A,-,-,3.5X5,TP,-		R260	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
L807	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R261	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
L808	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400G		R262	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
L901	2701-000189	INDUCTOR-AXIAL;470NH,10%,2.5X3.4MM		R301	2001-001045	R-CARBON(S);1.2Kohm,5%,1/2W,AA,TP,2.4x6.4m	
L903	2701-000197	INDUCTOR-AXIAL;5.6UH,10%,2.5X3.4MM		R302	2001-001049	R-CARBON(S);1.3Kohm,5%,1/2W,AA,TP,2.4x6.4m	
L904	2701-000211	INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm		R303	2001-000016	R-CARBON(S);10HM,5%,1/2W,AA,TP,2.4x6.4MM	
L905	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R304	2008-000254	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
L906	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R305	2003-002069	R-METAL OXIDE;470ohm,5%,2W,AF,TP,3.9x10mm	
L907	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		R306	2003-002069	R-METAL OXIDE;470ohm,5%,2W,AF,TP,3.9x10mm	
LD901	AA96-30001B	ASSY-LED,GUIDE;- ,AA61-50055A,DL-G5RGA,-		R308	2003-002069	R-METAL OXIDE;470ohm,5%,2W,AF,TP,3.9x10mm	
LT01	2901-000299	FILTER-EMI ON BOARD;- ,6A,UL/CSA,-,9x7.5,TP,-		R309	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LT02	2901-000299	FILTER-EMI ON BOARD;- ,6A,UL/CSA,-,9x7.5,TP,-		R310	2001-000387	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
Q201	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R311	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q202	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R312	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q204	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R313	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
Q207	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R314	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
Q210	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R315	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q301	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R316	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
Q302	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R317	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
Q401	0502-000298	TR-POWER;KSD73,NPN,30W,TO-220,-,120-240		R404	2008-000254	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
Q402	0502-001007	TR-POWER;KSC2073-H2,NPN,25W,TO-220,ST,6		R405	2001-001138	R-CARBON(S);390ohm,5%,1/2W,AA,TP,2.4x6.4mm	
Q403	0502-001136	TR-POWER;KSD5703,NPN,70W,TO-3PF,ST,8-		R406	2003-002008	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x10mm	
Q701	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R407	2003-001025	R-METAL OXIDE(S);15Kohm,5%,2W,AF,TP,3.9x10mm	
Q702	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R409	2008-000264	R-FUSIBLE(S);10HM,5%,1W,AF,TP,3.9X10MM	
Q801	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-		R410	2001-001114	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
Q901	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R411	2001-001199	R-CARBON(S);91ohm,5%,1/2W,AA,TP,2.4x6.4mm	
Q902	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP		R412	2001-000020	R-CARBON(S);22ohm,5%,1/2W,AA,TP,2.4x6.4mm	
Q903	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP		R413	2008-000251	R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10mm	
Q904	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,TP		R414	2008-000278	R-FUSIBLE(S);82ohm,5%,2W,AA,TP,3.9x10mm	
Q905	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R415	2008-001011	R-FUSIBLE(S);0.18ohm,10%,2W,AF,TP,3.9x10mm	
Q907	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R417	2004-004086	R-METAL;56Kohm,1%,1/2W,AA,TP,2.5x6.5mm	
Q908	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R418	2004-001967	R-METAL(S);68KOHM,1%,1/2W,AA,TP,6.5X2.5MM	
QE01	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,TP,120-		R419	2004-001390	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
QT01	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R420	2001-001114	R-CARBON(S);270ohm,5%,1/2W,AA,TP,2.4x6.4mm	
QT02	0504-000125	TR-DIGITAL;KSR1012,NPN,300mW,47K,TO-92,TP		R421	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
QT03	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,TP,120-		R422	2008-000254	R-FUSIBLE(S);0.68ohm,5%,2W,AF,TP,3.9x10mm	
R201	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R424	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R202	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R425	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R203	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R426	2002-001012	R-COMPOSITION;8.2Mohm,10%,1/2W,AA,TP,3.7x9mm	
R204	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R427	2002-001012	R-COMPOSITION;8.2Mohm,10%,1/2W,AA,TP,3.7x9mm	
R212	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM		R428	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R214	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM		R429	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R215	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM		R430	2001-001043	R-CARBON(S);0OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R218	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R501	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R219	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R502	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
R503	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R901	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R504	2008-000256	R-FUSIBLE(S);1.5OHM,5%,2W,AA,TP,3.9X10MM		R902	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R505	2008-000296	R-FUSIBLE(S);4.7ohm,5%,2W,AA,TP,3.9x10mm		R903	2001-000066	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R506	2008-000299	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm		R904	2004-000218	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R507	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM		R905	2004-000218	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R508	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM		R906	2004-000218	R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM		R908	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R510	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0		R909	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R517	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0		R910	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R518	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0		R911	2001-000214	R-CARBON;1.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R519	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7X9.0		R912	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R520	2001-001062	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm		R913	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R601	2008-001002	R-FUSIBLE(S);0.18ohm,5%,2W,AA,TP,3.9x10mm		R914	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R602	2008-001002	R-FUSIBLE(S);0.18ohm,5%,2W,AA,TP,3.9x10mm		R918	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R603	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R919	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R604	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R920	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R605	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R921	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		R922	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R923	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R701	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		R924	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		R925	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R703	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R926	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R927	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R705	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		R928	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R706	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		R929	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
R707	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R930	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R932	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R709	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		R933	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R712	2001-000539	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R934	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R713	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		R935	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R714	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R936	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R715	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		R937	2001-001062	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4mm	
R716	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R939	2001-000006	R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R717	2001-000539	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R941	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R718	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		R942	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	2001-000527	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM		R943	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R720	2001-000387	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R945	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R721	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R948	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R722	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R951	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R723	2001-000387	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R953	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R724	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM		R954	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R725	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		R955	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R728	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		RE01	2004-001390	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R729	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		RE02	2004-001914	R-METAL;39KOHM,2%,1/8W,AA,TP,1.8X3.5MM	
R732	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		RE03	2001-000066	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R733	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		RE04	2001-001142	R-CARBON(S);3Kohm,5%,1/2W,AA,TP,2.4x6.4mm	
R734	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		RE05	2001-000052	R-CARBON(S);3.3Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R735	2001-000969	R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM		RE06	2004-001390	R-METAL(S);1KOHM,2%,1/2W,AA,TP,2.4X6.4MM	
R736	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM		RE07	2003-002069	R-METAL OXIDE;470ohm,5%,2W,AF,TP,3.9x10mm	
R740	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		RE08	2001-001120	R-CARBON(S);3.3ohm,5%,1/2W,AA,TP,1.8X3.2MM	
R741	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM		RE09	2001-001125	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R801	2002-001011	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm		RE10	2001-001125	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m	
R802	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm		RL801	3501-001040	RELAY-POWER;12VDC,500mW,10A,1FormA,15mS,5m	
R803	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x10mm		RM901	AA59-60001U	MODULE-REMOCON;-;ORC-50VF/SR-12V,38KHz,940nm,	
R804	2001-001150	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m		RP802	1404-001045	THERMISTOR-NTC;4.7OHM,15%,2900K,35.0MW,T	
R805	2001-001150	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.4m		RP803	1404-001087	THERMISTOR-PTC;70hm,30%,220V,270V,19A,-,ST	
R806	2003-000458	R-METAL OXIDE(S);100ohm,5%,2W,AF,TP,4x12mm		RT01	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R807	2001-001178	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4mm		RT02	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R808	2002-001011	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7x9mm		RT03	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R809	2002-001013	R-COMPOSITION;4.7Mohm,10%,1/2W,AA,TP,3.7x9mm		RT04	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R810	2003-000487	R-METAL OXIDE(S);12Kohm,5%,2W,AA,TP,4x12mm		RT05	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R811	2003-000510	R-METAL OXIDE(S);15Kohm,5%,2W,AA,TP,4x12mm		RT06	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R812	2008-000251	R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10mm		RT07	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R813	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		RT08	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R814	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		RT13	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R815	2004-004364	R-METAL(S);152Kohm,1%,1/2W,AA,TP,2.4x6.4m		RT14	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R816	2004-001983	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4		RT15	2003-001037	R-METAL OXIDE(S);39ohm,5%,2W,AF,TP,3.9x10mm	
R817	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,TP,2.4X6.4MM		RT16	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R818	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		RT18	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R819	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		RT19	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R820	2008-001047	R-FUSIBLE(S);68OHM,5%,2W,AF,TP,3.9X10MM		RT20	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R821	2008-000271	R-FUSIBLE(S);3.3OHM,5%,2W,AA,TP,3.9X10MM		RW901	2011-000157	R-NETWORK;10K,5%,1/8W,A,SIP,6P,TP	
R822	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		SF101	2904-000302	FILTER-SAW AV;38.90MHz,-,ST,13.9dB,PAL-B/G,-	
R823	2008-000264	R-FUSIBLE(S);1OHM,5%,1W,AF,TP,3.9X10MM		SW801	3403-001020	SWITCH-PUSH;250V,5A,DPST,OFF-ON-OFF	
R824	2001-001125	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.4m		SW901	3404-000244	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
R826	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,TP,2.4x6.4MM		SW902	3404-000244	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
R828	2001-000022	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4mm		SW903	3404-000244	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	

Loc. No.	Code No.	Description ; Specification	Remark
SW904	3404-000244	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
SW905	3404-000244	SWITCH-TACT;12V,50mA,100-160gf,8.4x22.6mm,	
△ T401	AA26-50001R	TRANS-HORIZ DRIVE;- ,80MH,580UH,4UH,G11A E119,ST	
△ T444	AA26-30005U	TRANS-FLYBACK;- ,FUH-29A003,29,155V	
△ T801	AA26-20007W	TRANS-SWITCHING;- ,90-260V,130/15.5/12/8V,VDE,S	
△ TU101	AA40-10006P	TUNER-V/S;TECC0949VG28B(S),PAL-B/G,TR,18	
△ V999	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NL,-	
X202	2801-000274	CRYSTAL-UNIT;4.433619MHZ,30PPM,28-AAM,20PF,	
X203	2801-000226	CRYSTAL-UNIT;3.579545MHZ,20ppm,28-AAM,15pF,	
XT01	2801-003433	CRYSTAL-UNIT;12MHZ,30ppm,28-AAA,30pF,30ohm,	
Z208	2903-000181	FILTER-CERAMIC;TR,5.5MHz,-,-,TP,TPS5.5MB-TF	

ASSY-R/G/B,SWITCHING

*	HA95-90009S	ASSY-R/G/B,SWITCHING;-,-,S51A,PHILIPS MICOM ALL,-,	
CN901A	3711-002643	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGHT,SN	
CNS01	3711-002702	CONNECTOR-HEADER;NOWALL,4P,1R,2.5mm,ANGLE,SN	
CNS02	3711-002703	CONNECTOR-HEADER;NOWALL,5P,1R,2.5mm,ANGLE,SN	
CNS03	AA39-20052F	LEAD CONNECTOR-ASSY;- ,YBNH025-04,YSH025-4,4P,200m	
CNS03	3711-002643	CONNECTOR-HEADER;BOX,4P,1R,2.5mm,STRAIGHT,SN	
CS01	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11.5	
CS02	2305-000665	C-FILM,MPEF;100NF,5%,63V,TP,7.5X4.0X5.0MM,	
CS03	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS04	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS05	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS06	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS07	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
CS08	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V,TP,2.2x3.	
DS01	0401-000005	DIODE-SWITCHING;1N4148,75V,300MA,DO-35,TP	
H001	AA61-10068A	BRACKET-PCB;- ,M2160,SPT,TO.3,-,-	
ICS01	1001-000223	IC-VIDEO SWITCH;TEA5114A,- ,DIP,16P,334MIL,SING	
JS01	3812-000219	WIRE-NO SHEATH CU;TCWA,300V,52mm(TAPING),1/0.6mm	
PCB	AA41-11049A	PCB-RGB,S/W;S51A,1L,FR-1,245x245x1.6T,A20,	
RS01	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS04	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS06	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS07	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS08	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS09	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS10	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS11	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS12	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS13	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS14	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS15	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS16	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS17	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RS18	2001-000003	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM	

ASSY-SOUND

*	AA95-40011V	ASSY-SOUND;-,-,S51A,NICAM,-,-	
CN01	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CN02	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CN03	2203-000891	C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	
CN04	2203-002392	C-CERAMIC,CHIP;220nF,+80-20%,50V,Y5V,TP,	
CN05	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN06	2401-000914	C-AL;22uF,20%,16V,GP,TP,5x11.5	
CN07	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN08	2203-001002	C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,2012,-	
CN09	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CN10	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,	
CN11	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
CN12	2203-000495	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,2012	
CN13	2203-000495	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,2012	
CN14	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN15	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN16	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN17	2401-000620	C-AL;2.2uF,10%,50V,GP,TP,5x11.5	
CN18	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN19	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN20	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN21	2203-000802	C-CERAMIC,CHIP;33nF,10%,50V,X7R,TP,2012,	

Loc. No.	Code No.	Description ; Specification	Remark
CN22	2203-002442	C-CERAMIC,CHIP;330nF,+80-20%,25V,Y5V,TP,	
CN23	2203-000389	C-CERAMIC,CHIP;15pF,5%,50V,NPO,TP,2012,-	
CN24	2203-000818	C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,2012,-	
CN25	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN26	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
CN27	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11.5	
CN28	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN29	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN30	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5	
CN31	2203-000925	C-CERAMIC,CHIP;470nF,+80-20%,50V,Y5V,TP,	
CN32	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5	
CN33	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
CNN01	3711-002704	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	
CNN02	3711-002705	CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGL	
DN01	0401-000160	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP	
DN02	0401-000160	DIODE-SWITCHING;ISS314,30V,100mA,USC,TP	
DN03	0405-000108	DIODE-VARACTOR;BB405B,28V,10nA,D	
ICN01	1204-001047	IC-FM CIRCUIT;TDA9808,DIP,20P,-,PLASTIC,	
ICN02	1209-001113	IC-ETC, LINEAR;TDA9874H,QFP,44P,-,PLASTI	
JN01	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
LN01	2901-000297	FILTER-EMI ON BOARD;- ,3A,-,-,3.5x5,TP,-	
LN02	2901-000297	FILTER-EMI ON BOARD;- ,3A,-,-,3.5x5,TP,-	
LN03	2701-000168	INDUCTOR-AXIAL;3.3uH,5%,2.5x3.4mm	
LN04	2901-000297	FILTER-EMI ON BOARD;- ,3A,-,-,3.5x5,TP,-	
LN05	2901-000297	FILTER-EMI ON BOARD;- ,3A,-,-,3.5x5,TP,-	
LN06	2701-000202	INDUCTOR-AXIAL;560nH,10%,2.5x3.4mm	
QN01	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QN02	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
QN03	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200MW,SOT-	
RN01	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
RN02	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RN03	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RN04	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RN05	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
RN06	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RN07	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
RN08	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
RN09	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
RN10	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
RN11	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
RN12	2007-000308	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
RN13	2007-000308	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
RN14	2007-000881	R-CHIP;4.7ohm,5%,1/10W,DA,TP,2012	
RN15	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
RN16	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
RN17	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
RN18	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RN19	2007-000308	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
RN20	2007-000308	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
RN21	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
RN22	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
RN23	2007-000881	R-CHIP;4.7ohm,5%,1/10W,DA,TP,2012	
RN26	2007-000308	R-CHIP;100HM,5%,1/10W,DA,TP,2012	
SFN01	2904-001010	FILTER-SAW AV;32.9-33.4MHz,SIP5P,ST,14.4	
SFN02	2904-001054	FILTER-SAW AV;38.9MHz,SIP5P,-,13.9dB,NTS	
TN01	AA26-10004E	TRANS-IF;- ,7MG,VIF,-,7mm,8pF,116.7MHz,S	
XN01	2801-003316	CRYSTAL-UNIT;24.576MHZ,30PPM,28-AAM,20PF	

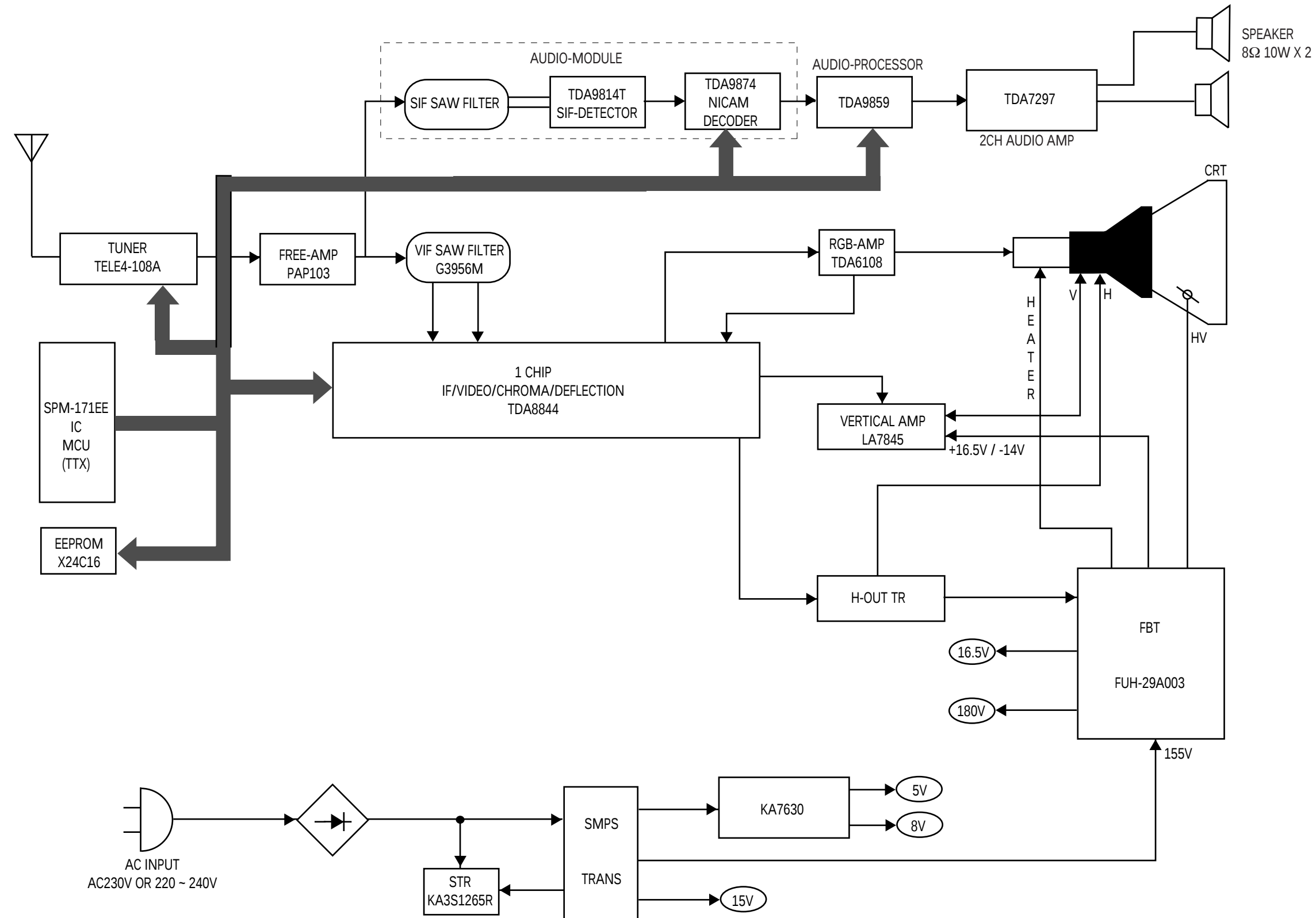
ASSY-PCB,A/V FRONT

*	HA95-900009	ASSY-PCB,A/V FRONT;SCT12A/12B	
CA02	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
CA03	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-	
CA04	2202-000720	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP	
CA05	2202-000720	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.5X19,-,TP	
CA06	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
CA07	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11.5	
CN01A	AA39-20068E	LEAD-CONNECTOR,ASSY;- ,YBNH025-08,67096-0	
CN05A	AA39-20069A	LEAD-CONNECTOR,ASSY;- ,YBNH025-05,67096-0	
CN06A	AA39-20499B	LEAD CONNECTOR-ASSY;- ,YBNH025-04,SMP025-4,4P,200,	
JE01	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
JR01	3722-001031	JACK-RCA;3P,3.6MM,#18,AU	
LA02	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
LA03	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	
LA04	2701-000180	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM	

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
LA05	2701-000180	INDUCTOR-AXIAL;33UH,5%,2.5X3.4MM					
RA01	2001-000028	R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4mm					
RA02	2001-000028	R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4mm					
ASSY-POWER,CORD							
	*	AA96-20014D ASSY-POWER,CORD;DP,KJP-140,H/C450MM,KLCE-2F,-,					
REMOCON							
	*	AA59-10117A REMOCON;DP,TM59,-,-,-,-,-,AA59-10116A,					
ASSY-CRT							
		AA03-10018Y CRT-COLOR;-A66EAK071X01,+380MG,28,110D					
		AA39-20519A LEAD CONNECTOR-ASSY;-YFH806-06,-,6(4)P,500MM,1617					
ASSY-SPEAKER							
		3001-000150 SPEAKER;20W,8ohm,91dB,130Hz					
		AA39-20452F LEAD CONNECTOR-ASSY;-YFH800-01,CLIP,1P,600MM,1617					

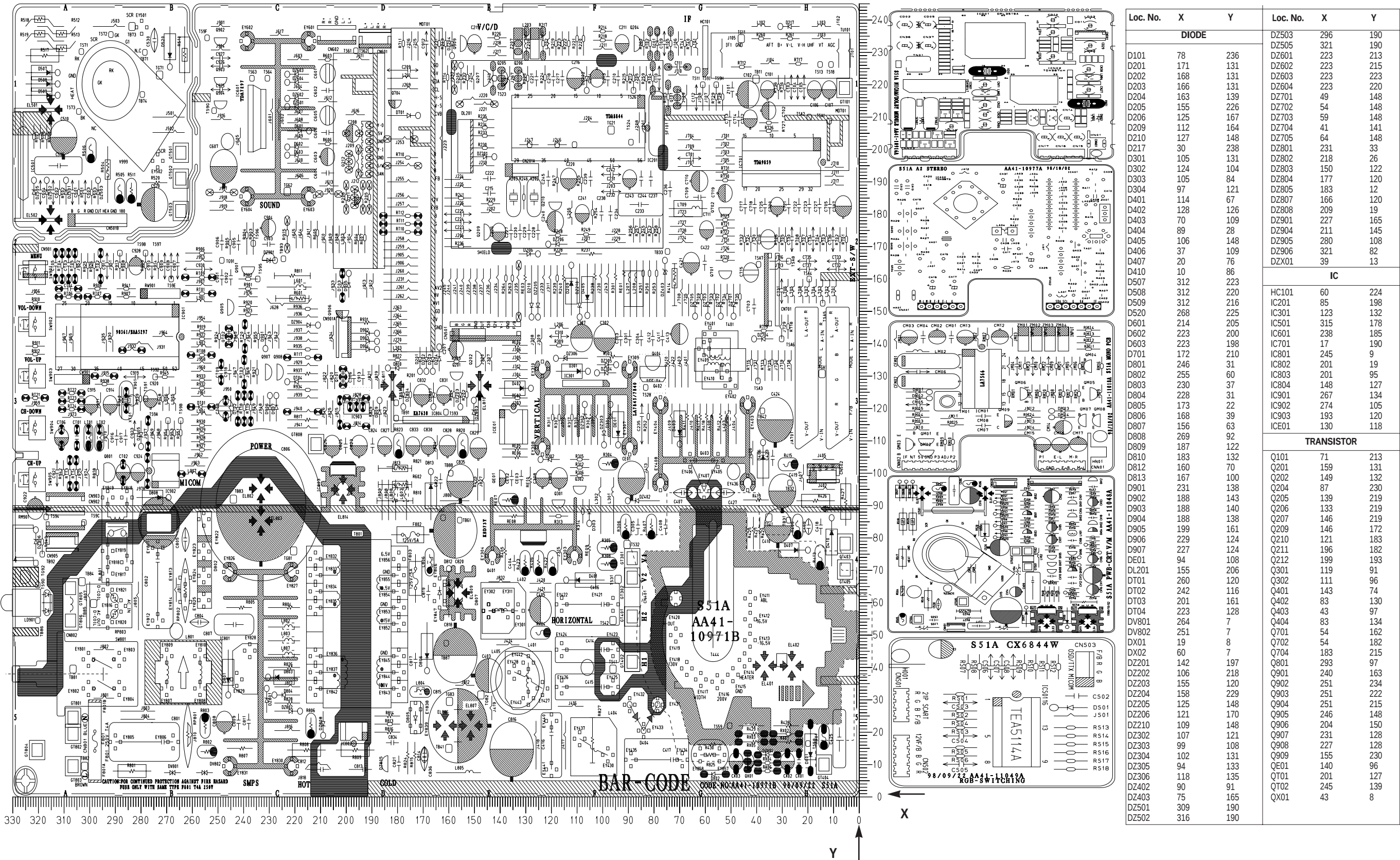
8. Block Diagram

8-1 S51A



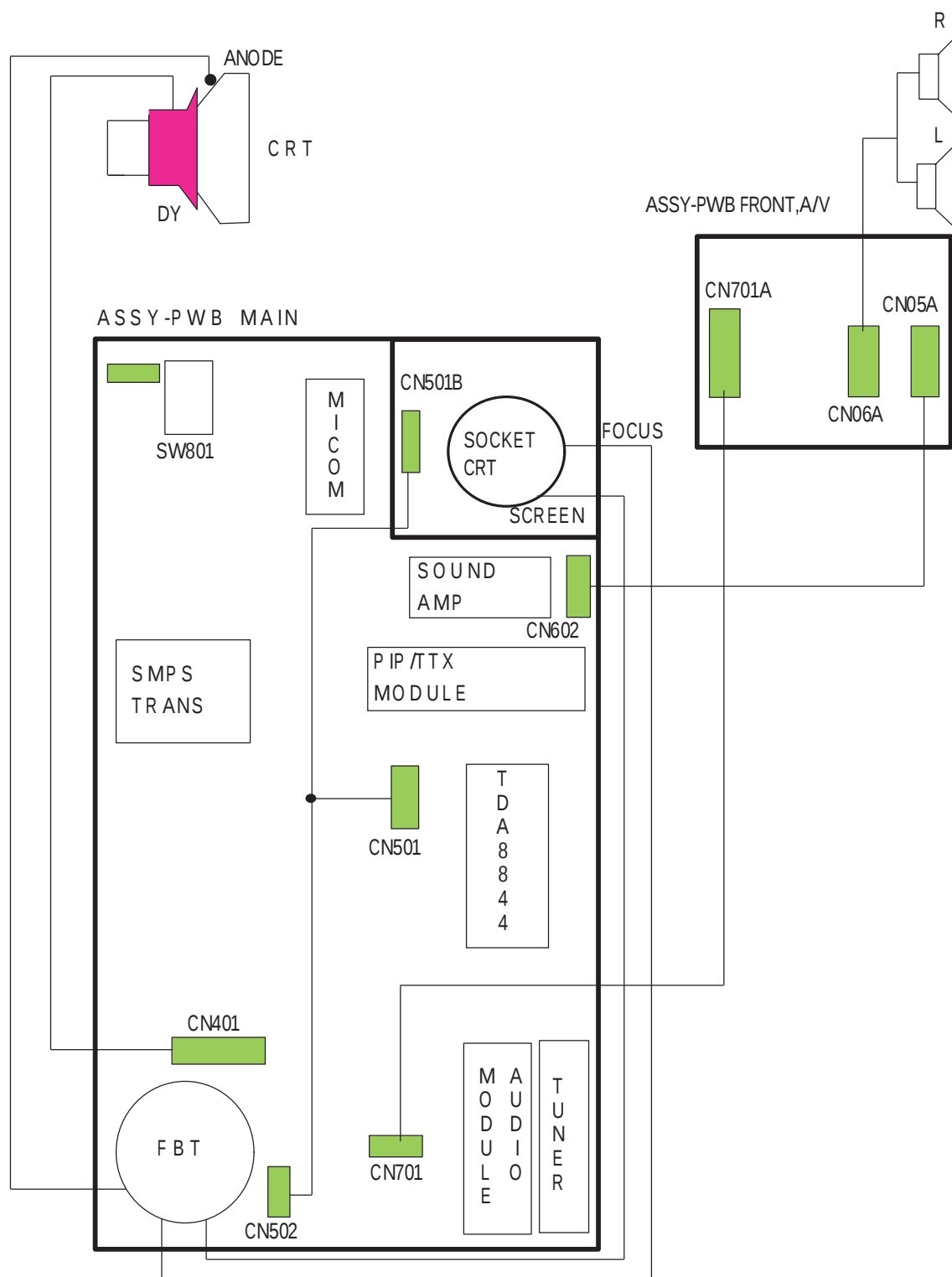
9. PCB Layout

9-1 PCB Main



10. Wiring Diagram

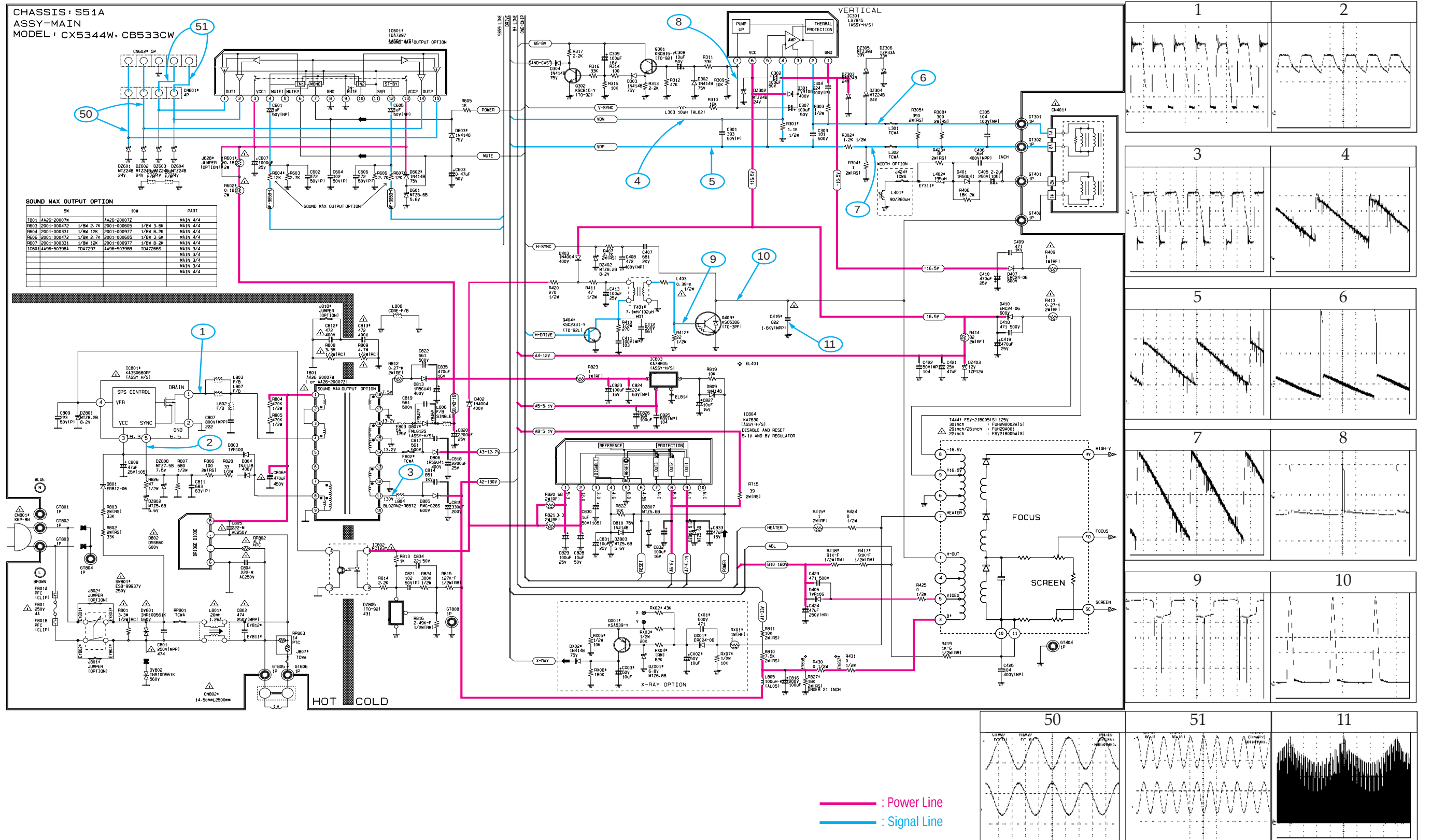
10-1 S51A

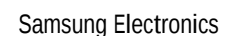


MEMO

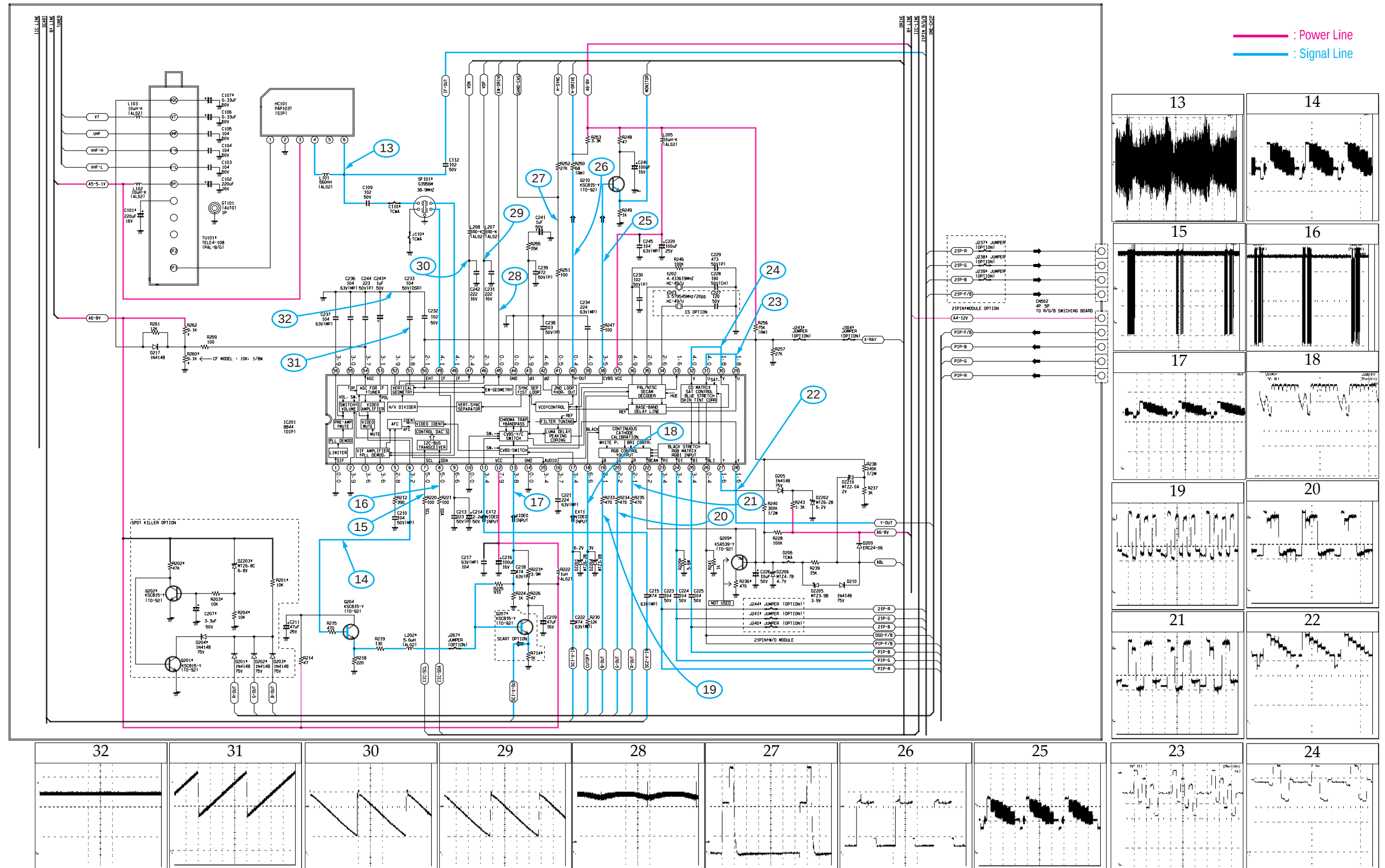
11. Schematic Diagrams

11-1 MAIN (Power 21")

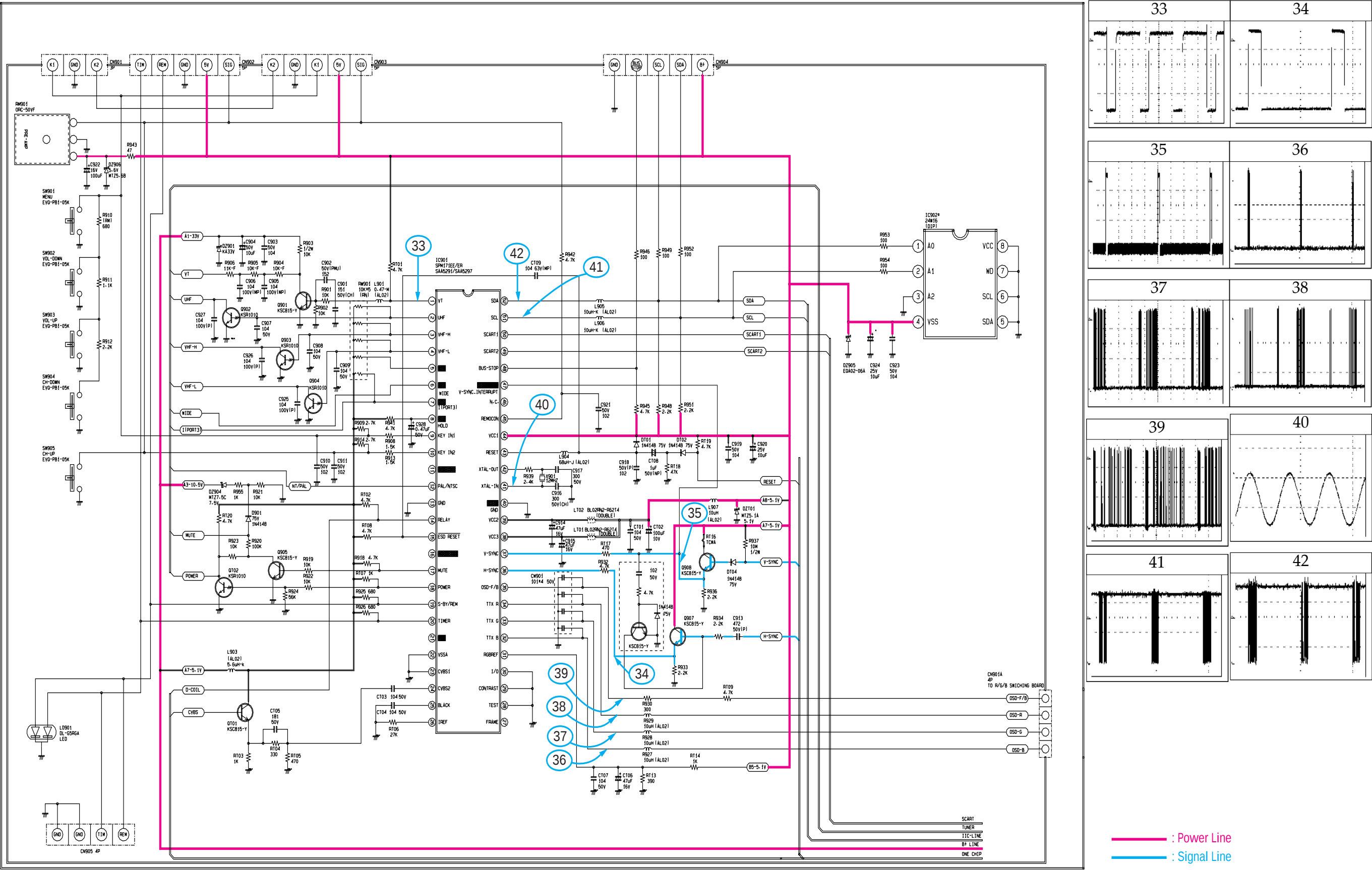




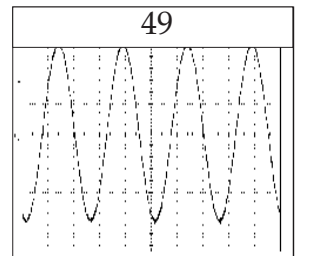
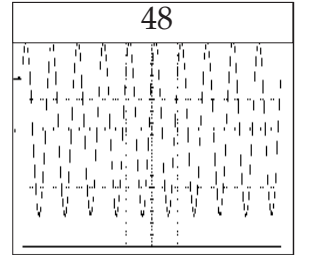
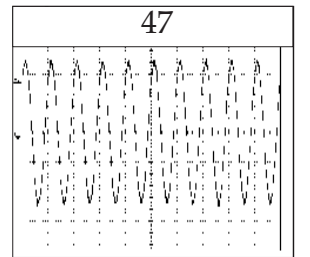
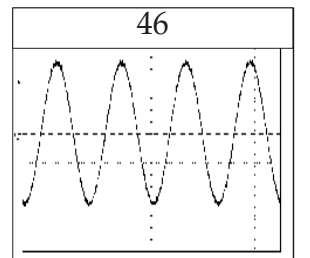
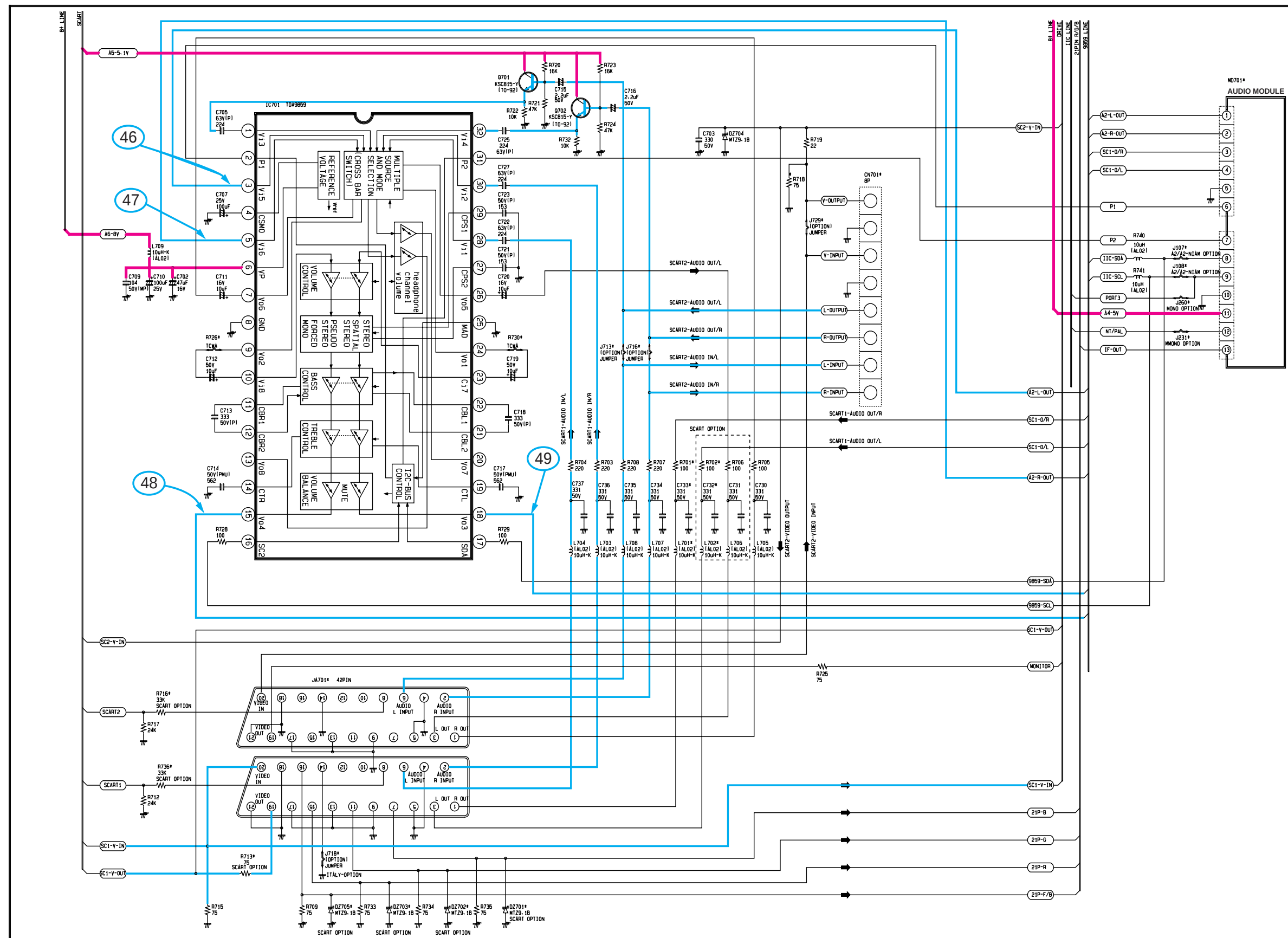
11-3 PWB MAIN (One-Chip)



11-4 PWB MAIN (u-COM)

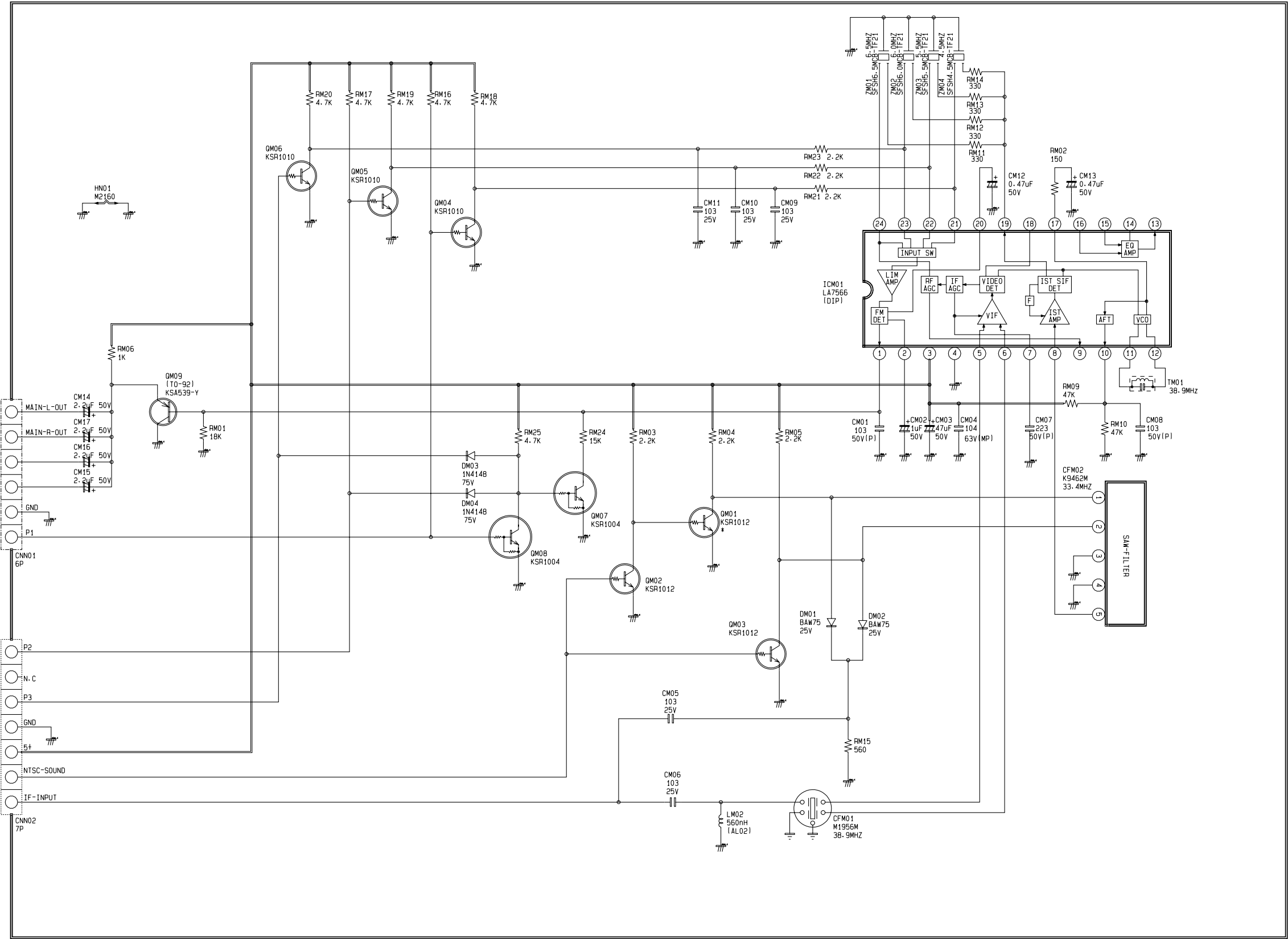


11-5 PWB MAIN (SUB)



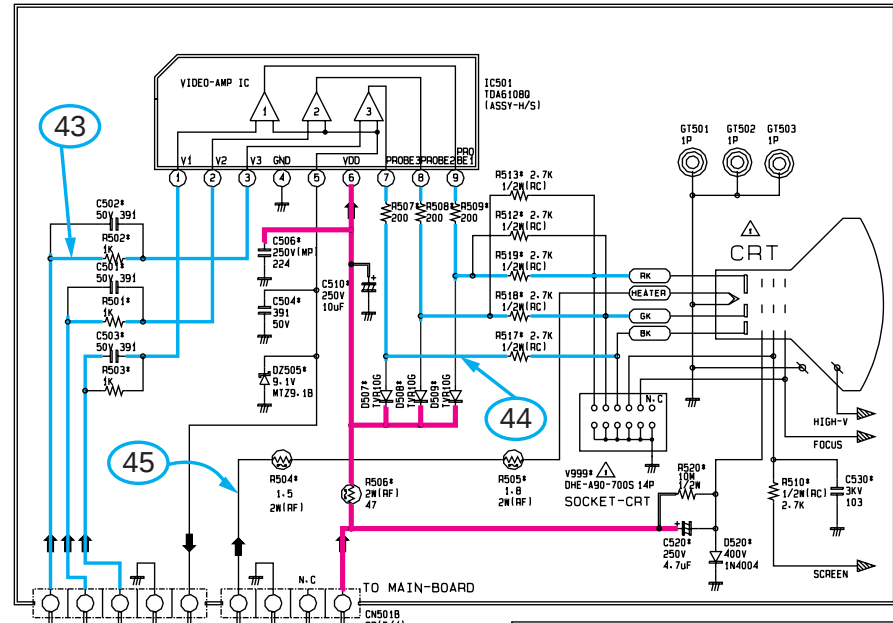
 : Power Line
 : Signal Line

11-6 PWB MAIN (Sound Module Mono)

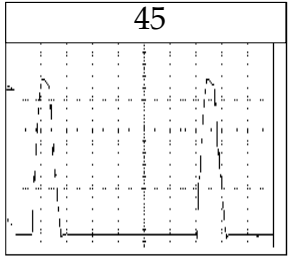
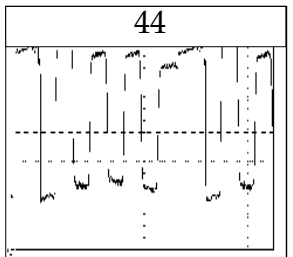
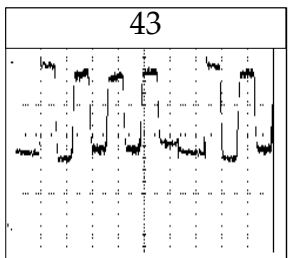
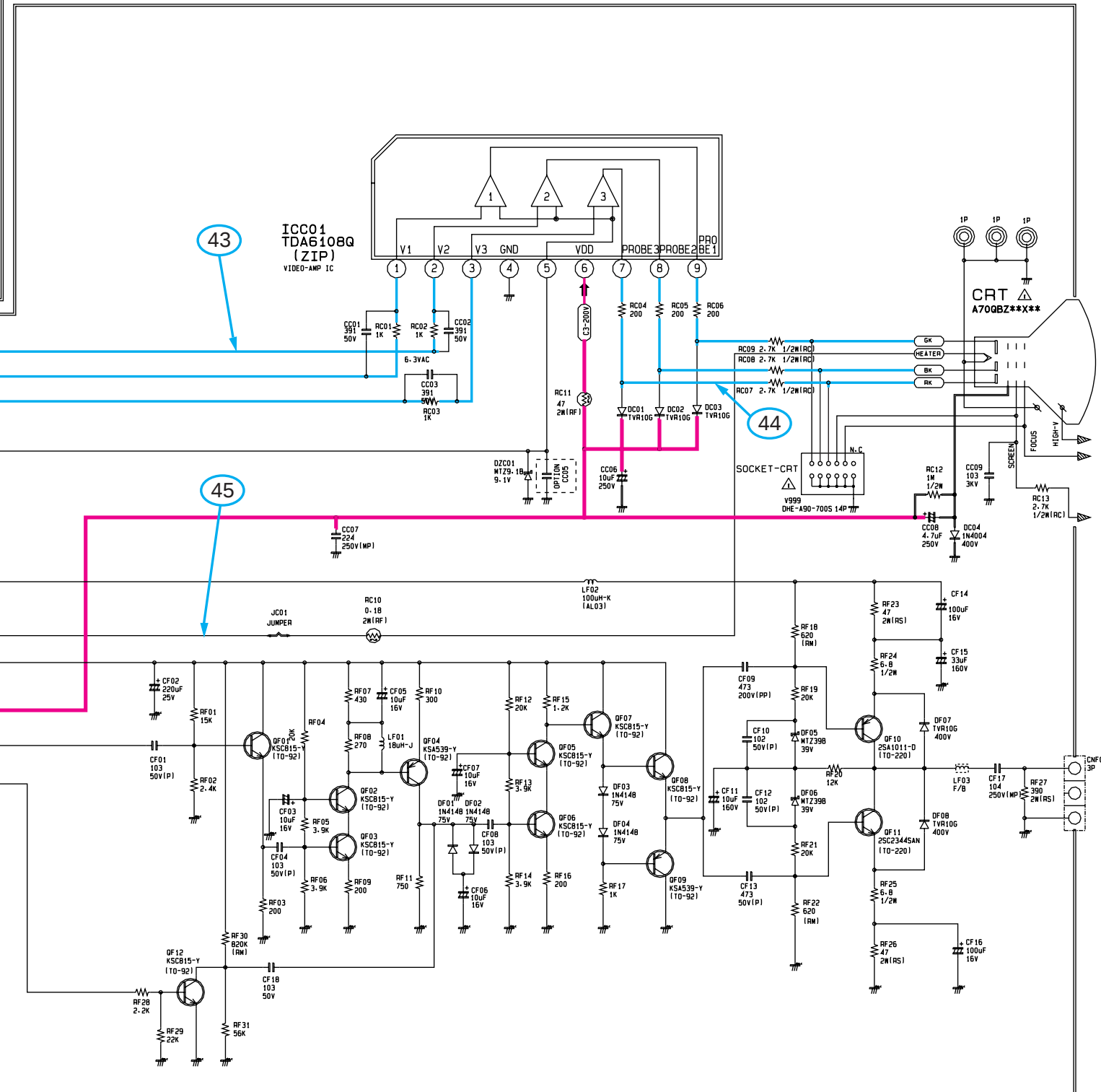


11-7 PWB MAIN (CRT)

WITHOUT VM (PHILIPS NORMAL CRT)



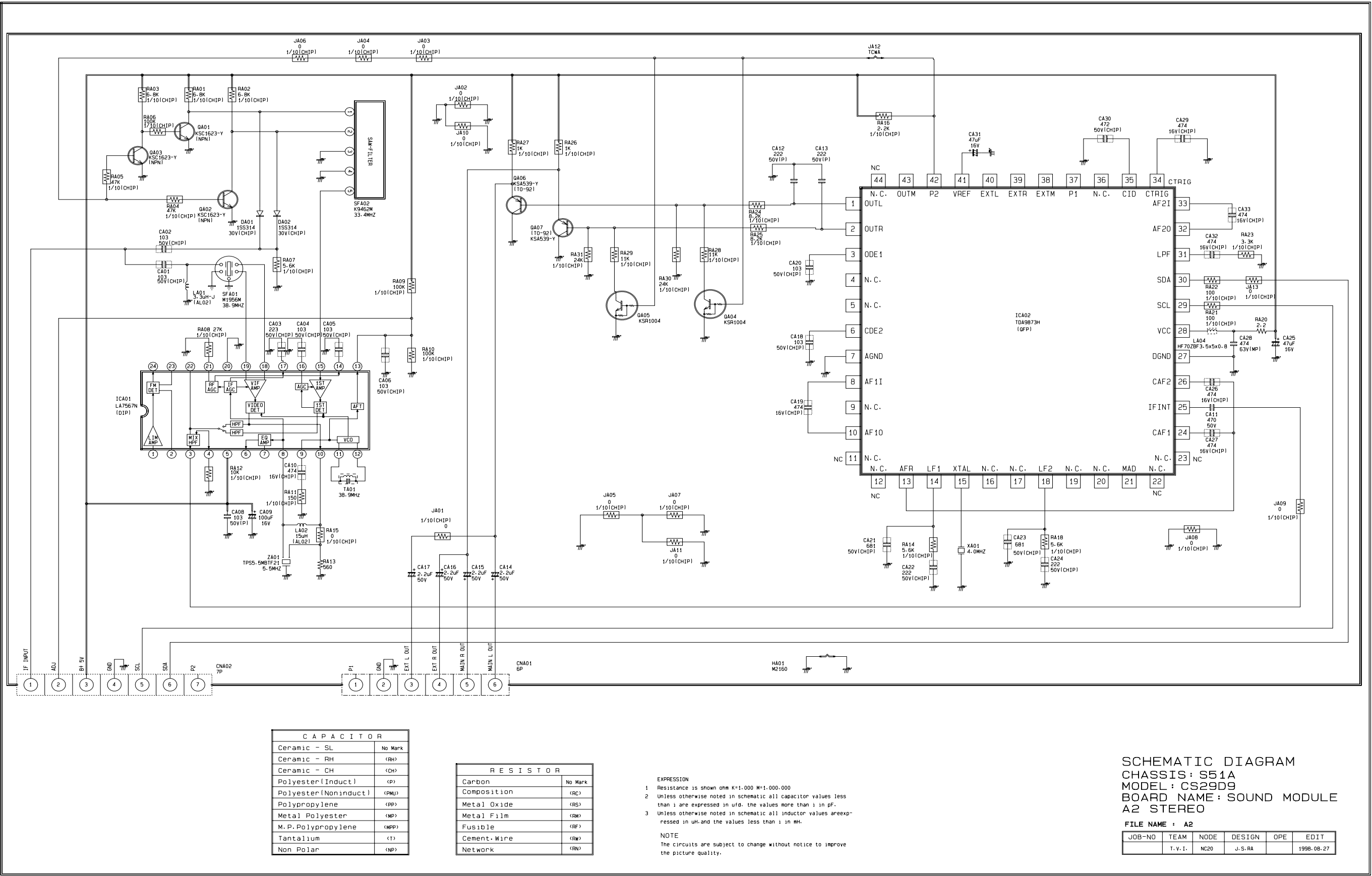
WITH VM (PHILIPS INVAR CRT)



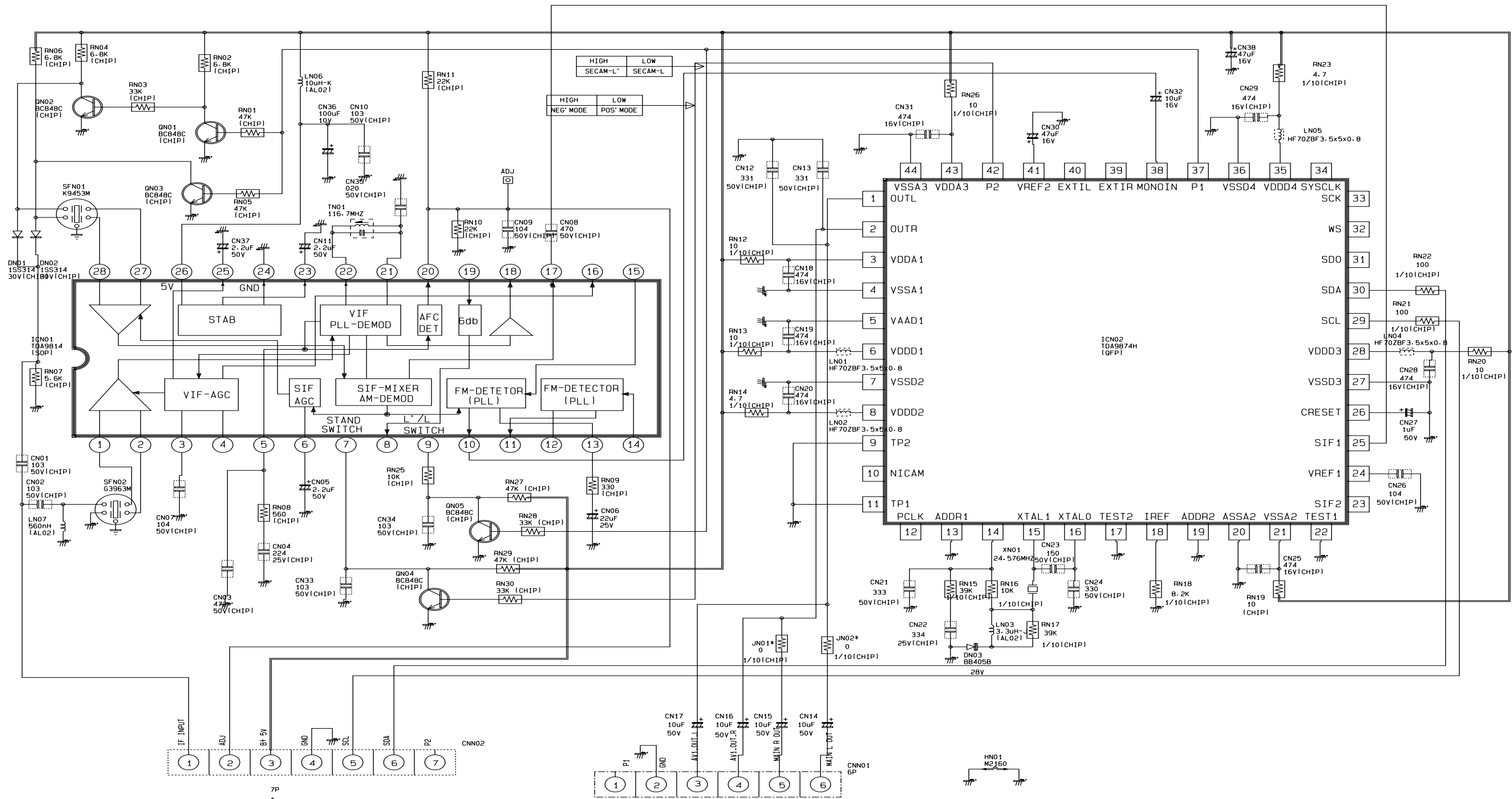
OPTION					
NORMAL VS INVAR OPT OPTION					
	PHILIPS INVAR OPT		PHILIPS NORMAL OPT		Remarks
LOC NO	CODE NO	SPEC.	CODE NO	SPEC.	
C406	2306-000204	C-FIL.MWV-1.60V-434	2306-000195	C-FIL.MWV-1.60V-384	
C416	2306-000339	C-FIL.MWV-1.60V-772	2306-000330	C-FIL.MWV-1.60V-772	
C415	2306-000237	C-FIL.MWV-1.60V-532	2306-000178	C-FIL.MWV-1.60V-352	
C416		C-FIL.MWV-400V-223	2303-010206	C-FIL.MWV-400V-163	
R301	2001-010504	R-CARBON-1.5K-1/28	2001-010449	R-CARBON-1.2K-1/28	
R302		R-CARBON-1.5K-1/28	2001-010449	R-CARBON-1.2K-1/28	
R415	2008-010513	R-FIL.ME-1.5-2H-1#1	2008-010511	R-FIL.ME-1.5-1H-1#1	
M415	2001-010152	R-CARBON-5/2K-4H	2004-010887	R-CARBON-1/2K-50H-4H	
T444	A42E-3000Y5	TRANS-FIL.F400/F400A4	A42E-3000Y5	TRANS-FIL.F400/F400A3	
		K2D		NONE	
R305	2003-000098	R-ME.T01S1-2K-300	2003-000269	R-ME.T01S1-2K-240	
R306	2003-000098	R-ME.T01S1-2K-300	2003-000269	R-ME.T01S1-2K-240	
R308	2003-000098	R-ME.T01S1-2K-300	2003-000269	R-ME.T01S1-2K-240	

 : Power Line
 : Signal Line

11-8 PWB MAIN (SOUND MODULE STEREO)



11-9 PWB MAIN (SOUND MODULE NICAM)



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	<RH>
Ceramic - CH	<CH>
Polyester(Induct)	<P>
Polyester(Noninduct)	<PMU>
Polypropylene	<PP>
Metal Polyester	<MP>
M. P. Polypropylene	<MPP>
Tantalum	<T>
Non Polar	<NP>

RESISTOR	
Carbon	No Mark
Composition	<RC>
Metal Oxide	<RS>
Metal Film	<RM>
Fusible	<RF>
Cement Wire	<RW>
Network	<RN>

EXPRESSION

1 Resistance is shown ohm K=1.000 M=1.000.000

2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.

3 Unless otherwise noted in schematic all inductor values are expressed in uH. and the values less than 1 in mH.

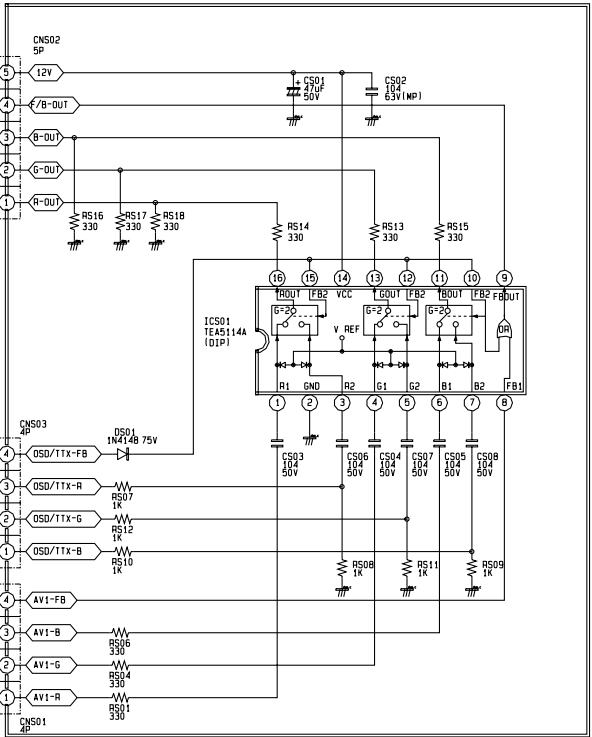
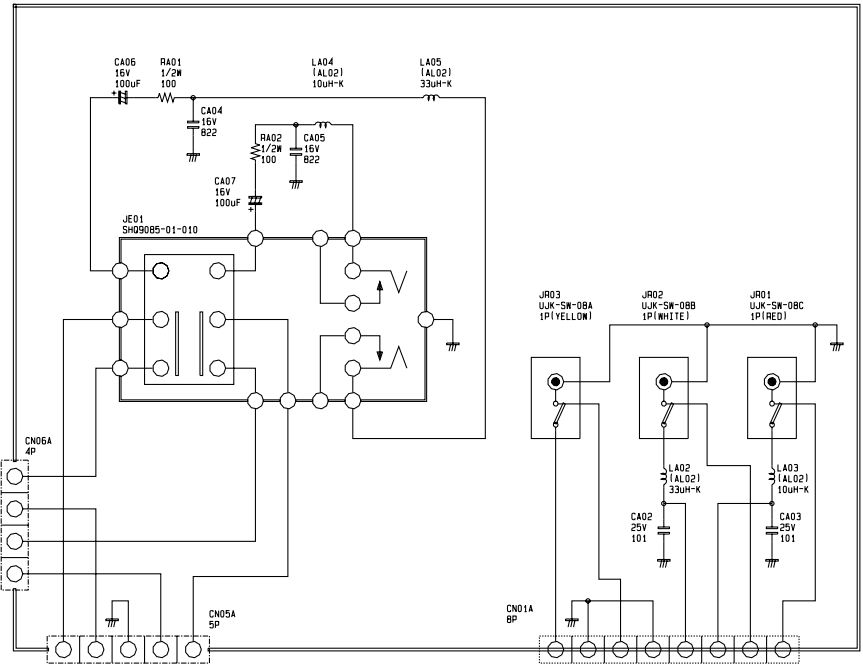
NOTE

The circuits are subject to change without notice to improve the picture quality.

SCHEMATIC DIAGRAM
CHASSIS: S51A
MODEL :
BOARD NAME : SECAN-L. L' NICAM

11-10 PWB MAIN (A/V FRONT / VIDEO SWITCH)

FRONT-A/V



RGB - SW MODULE

CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	<RH>
Ceramic - CH	<CH>
Polyester(Induct)	<P>
Polyester(Noninduct)	<PM>
Polypropylene	<PP>
Metal Polyester	<MP>
M.P.Polypropylene	<MPP>
Tantalium	<T>
Non Polar	<NP>

RESISTOR	
Carbon	No Mark
Composition	<RC>
Metal Oxide	<RS>
Metal Film	<RM>
Fusible	<RF>
Cement-Wire	<RW>
Network	<RN>

- NOTE
1. Resistance is shown in ohm K=1,000 M=1,000,000
 2. Unless otherwise noted in schematic all capacitor values less than 1 are expressed in μ F, and the values more than 1 in pF.
 3. Unless otherwise noted in schematic all inductor values more than 1 are expressed in μ H.
 4. Voltage read with V.T.V.M (input impedance 20 M Ω /all range) from point indicated to chassis ground using a color bar signal with all control at normal line voltage 120 volts.
 5. Waveforms in chrominance circuit are taken receiving a color bar signal with enough sensitivity.
 6. Waveforms in other circuit are taken using an signal under normal receiving conditions.
 7. Voltage readings shown are normal values and may vary 20% except H.V.
 8. This is fundamental circuit diagram some production changes may be made without revision of the diagram.
 9. The circuits enclose in dotted lines are optional parts. [x]

WARNING : BEFORE SERVICING THIS CHASSIS READ THE 'X-RAY RADIATION PRECAUTION' 'SAFETY PRECAUTION' AND PRODUCT SAFETY NOTICE' IN MANUAL.

CAUTION : The shaded Area in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit of specified in the parts list. Before replacing and of these components. Read carefully the PRODUCT SAFETY NOTICE. In this manual. Do not degrade the safety of the receiver through improper servicing.

