



COLOR TELEVISION RECEIVER

Chassis : SCT13B
Model: CK3373TR4X/BWT
CK508CR4X/BWT

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.

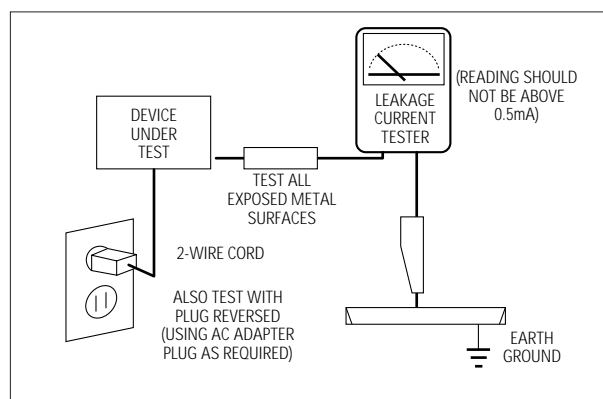


Fig. 1-1 AC Leakage Test



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)

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
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	38.90
Sound IF Carrier	33.40	32.40	32.90	34.40
Color Sub Carrier	34.47	34.47	34.47	35.32

Picture Tube:

14 Inch	A34KQV42X	Quick start, in-line-gun, Black stripe, 90°degree deflection
20 Inch	A48KRD82X	
21 Inch	A51KQJ63X	

Power Requirements:

AC 100~260V, 50/60Hz

Antenna Input Impedance:

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

Speaker Impedance

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

2-2 IC Line Up

Table 2-1 IC Line-Up			
Loc. No	Specification	Description	Remark
HC101	PAP102	IF PRE-AMP	
IC201	TDA8374A N3	PAL-B/G, SECAM-B/G, NTSC	Philips
IC202	TDA4665	1H DELAY	SECAM MODULE
IC203	TDA8395P	SECAM DECODER	
IC301	TDA8356	VERTICAL OUTPUT	
IC501	TDA6107Q	RGB DRIVE AMP	
IC601	TDA7056B	SOUND-AMP (3.5W)	Monitor Type
IC602	TDA7057AQ	SOUND-AMP (5W+5W)	Dual Type
IC801	KA3S0680R	POWER IC (STR)	
IC802	KA7630	CUSTOM REGULATOR (5V, 8V)	
IC901	SZM193EA	W/O TTX, English/French/Arabian	Zilog (Non TTX)
	SZM193EV	W/O TTX, English/Vietnames/Indonesian/Maly/Thai	
	SZM193EC	W/O TTX, English/Chinese	
	SZM191EC	W/O TTX, English/Chinese	
	SZM193EE	W/O TTX, English/German/French/Dutch/Italian/Spanish, Swedish/Romanian/Hungarian/Croatian/Polish/Russian, Czech/Bulgarian/Yugo/Greek	
	SZM191ER	W/O TTX, English/Russian (Only for Oceania model)	Philips (TTX)
	SPM197EE	TTX, West : English/German/French/Dutch/Italian/Spanish/Swedish East : English/Czech/Croatian/Romanian/Hungarian/Polish	
	SPM197ER	TTX, English/Russian/Bulgarian	
	SPM197EP	TTX, English/Iranian	
	SPM197EA	TTX, English/French/Arabian	
SPM197EG	TTX, English/Greek/Yugo		
IC902	24C04	EEPROM	
IC903	KiA7042P	RESET IC ,W/O TTX Model	Zilog
	KiA7442P	TTX Model	Philips
IC401	KA7812	REGULATOR (12V)	
PC801	LTV817B	PHOTO COUPLER	NEC

2-3 Semiconductor Base Diagrams

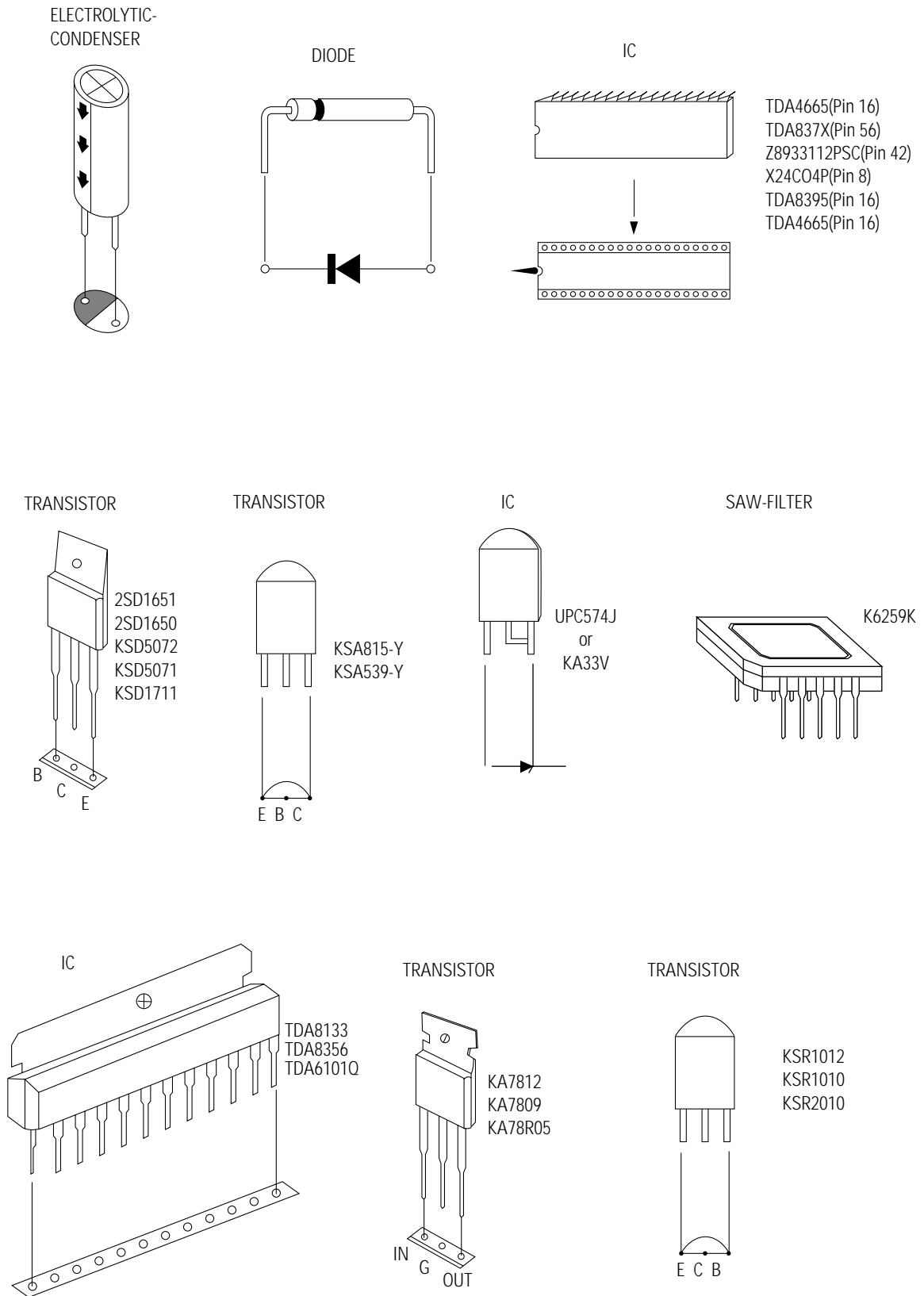
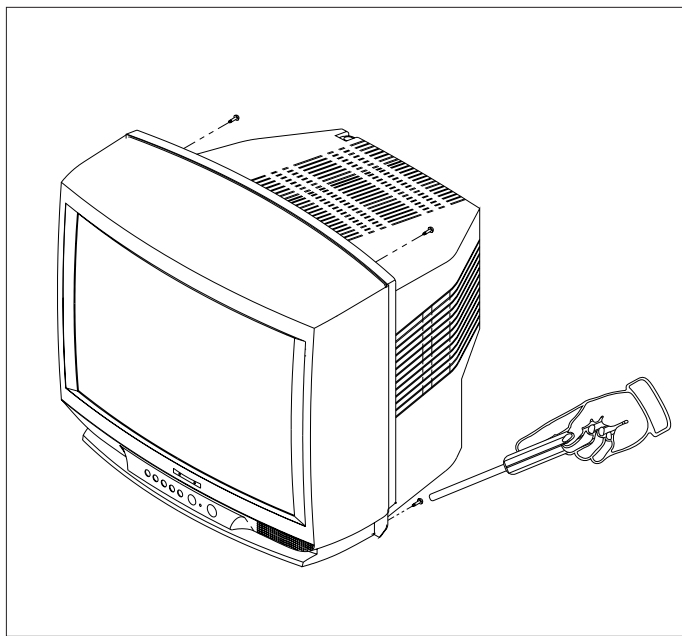


Fig. 2-1 Semiconductor Base Diagrams

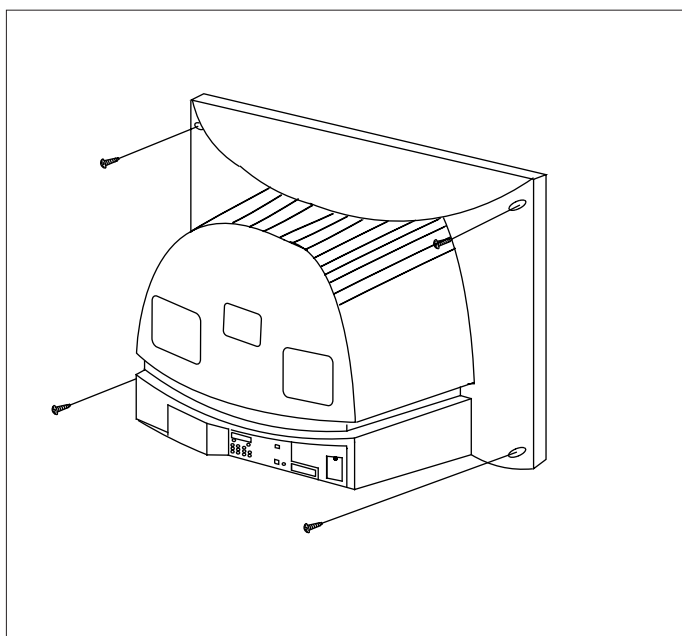
MEMO

3. Disassembly and Reassembly

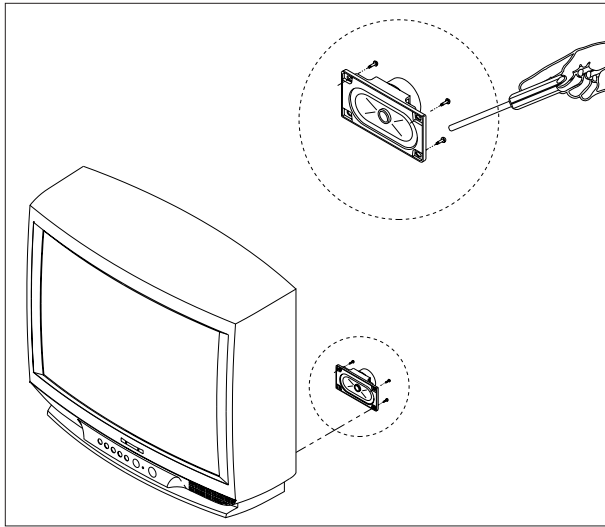
3-1 Back Cover Removal



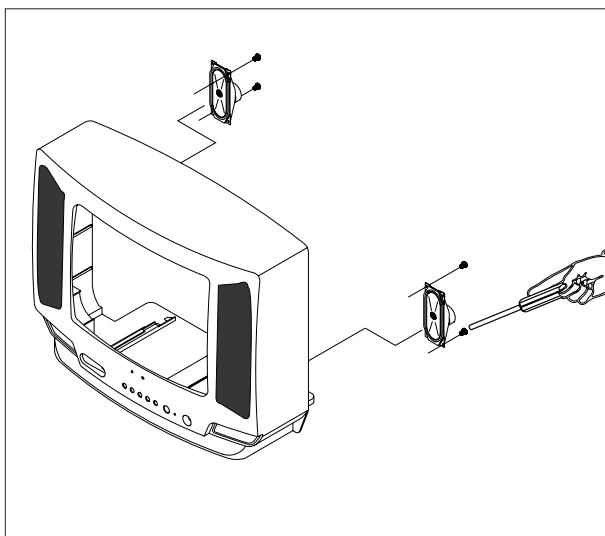
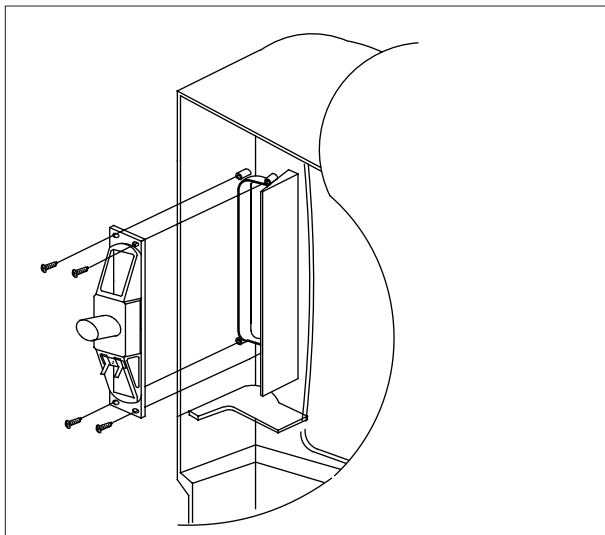
1. After removing the 9 screws, pull the cabinet backwards.



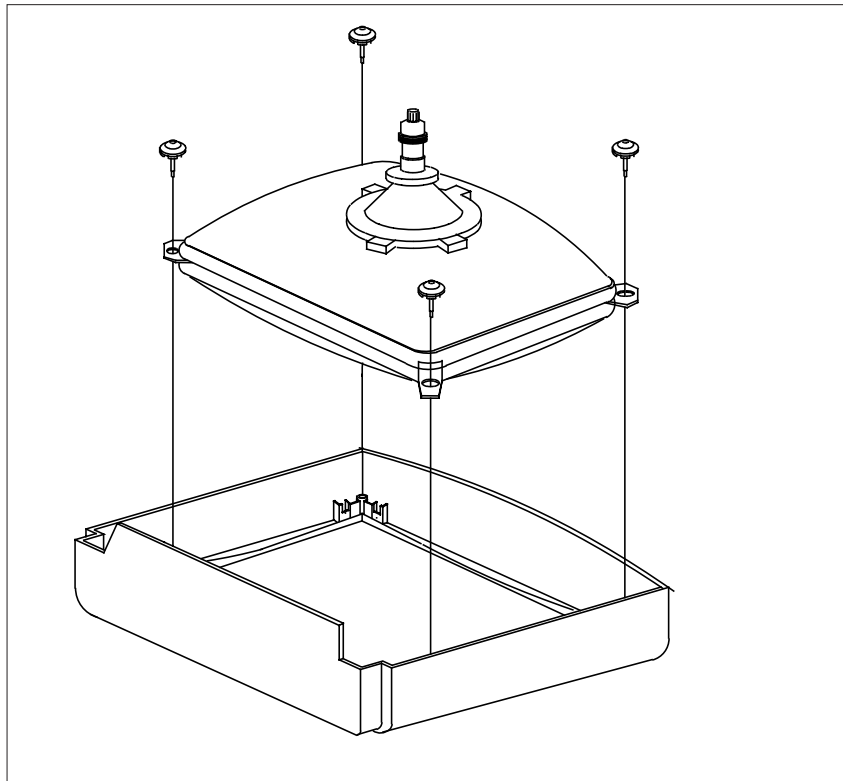
3-2 Speaker Removal



1. Loosen the 4 screws and remove the holder - speakers.



3-3 CRT Removal



1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 screws mounting the CRT to the front cabinet.
3. Lift the CRT.

MEMO

4. Alignment and Adjustments

4-1 Preadjustment

4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (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
Vertical Center
Vertical Size
Horizontal Size
Fail Safe (This adjustment must be the last step).

2. If the EEPROM or CRT is replaced, set SC and PVA to 10 and 45 (Factory mode).

SC : 14, 16 Inch : 0
20, 21 Inch : 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) SLEEP→FACTORY.
 - (2) STAND-BY→P.STD→HELP→SLEEP→POWER ON.
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: Adjustment, Test Pattern, Option Bytes 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>
GG>BG>CDL>BLU>PSL>PVS>PVA>PHS
5. Selection sequences for the NTSC system:

DOWN or UP key:
AGC>VCO>SBT>SCT>SCR>SC>RG>
GG>BG>CDL>BLU>NSL>NVS>NVA>NHS
6. The VOLUME keys increase or decrease the adjustment values, (stored in the non-volatile memory when Adjustment Mode is cancelled).
7. Cancel the Adjustment Mode by re-pressing the "FACTORY" or Power OFF.

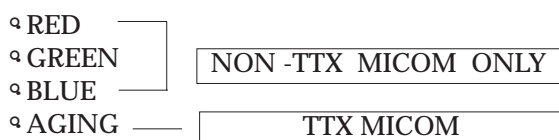
4-2-2 Main Adjustment Parameter

Table 4-1 Main Adjustment Parameter (Zilog, Philips μ -com)				
FUNCTION	OSD ABBREVIATION	RANGE	INITIAL DATA	REMARKS
AUTO GAIN CONTROL	AGC	0 ~ 63 STEP	32	TDA8374
SUB BRIGHT	SBT	0 ~ 23 STEP	7	
SUB CONTRAST	SCT	0 ~ 23 STEP	7	
SUB COLOR	SCR	0 ~ 23 STEP	13	
RED DRIVE GAIN	RG	0 ~ 63 STEP	32	
GREEN DRIVE GAIN	GG	0 ~ 63 STEP	32	
BLUE DRIVE GAIN	BG	0 ~ 63 STEP	32	
PAL VERTICAL SLOPE	PSL	0 ~ 63 STEP	20	
PAL VERTICAL SHIFT	PVS	0 ~ 63 STEP	32	
PAL VERTICAL AMPLITUDE	PVA	0 ~ 63 STEP	45	
PAL HORIZONTAL SHIFT	PHS	0 ~ 63 STEP	32	
NTSC VERTICAL SLOPE	NSL	0 ~ 63 STEP	20	
NTSC VERTICAL SHIFT	NVS	0 ~ 63 STEP	32	
NTSC VERTICAL AMPLITUDE	NVA	0 ~ 63 STEP	45	
NTSC HORIZONTAL SHIFT	NHS	0 ~ 63 STEP	32	
VOLTAGE CONTROL OSCILLATOR	VCO	0 ~ 128 STEP	64	
S-CORRECTION	SC	0 ~ 63 STEP	32	
TTX SUB-CONTRAST	TSS	0 ~ 63 STEP	16	
CATHODE DRIVE LEVEL	CDL	0 ~ 7 STEP	3	TDA8842
BLUE STRETCH MODE	BLU	0 ~ 3 STEP	2	

NOTE : PVS,PVA, PHS, NVS, NVA,NHS parameters must be aligned using both the 50Hz and 60Hz vertical-field rates.

4-2-3 Test Pattern (Aging Mode)

1. This mode can be used during servicing, or for confirming that the convergence and purity adjustments are correct.
2. Access the Test Pattern parameters by pressing a CHANNEL keys (▲, ▼) while the Service Mode is on. The cursor will move to the test pattern. Press the VOLUME keys. On-screen display:



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 “SLEEP → FACTORY→FACTORY” key, then white pattern will be displayed.

Even if the TV power is cut off, the Aging Mode is not cancelled, The aging mode is cancelled by repressing the “FACTORY” key or pressing the local “CH UP/DOWN” key.

The patterns are displayed at 5 sec intervals : NON-TTX Micom only.

4-2-4 Option Bytes

In the Service Mode, various can be selected via the Option Bytes (8 bits each). Example:

SYSTEM OSD DISPLAY		BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0 : 8	-			L (BIT : 0)	H (BIT : 8)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)
BYTE 1 : 0	-	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)	L (BIT : 0)

TDA8374, CK SYSTEM, RCA JACK SYSTEM OSD DISPLAY

BYTE 0 : 11	—————	L (BIT : 1)	H (BIT : 0)	L (BIT : 0)	H (BIT : 0)	L (BIT : 1)
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4-2-4 (A) OPTION BYTE TABLE

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM																	
B Y T E 0	D7	-	-	-																	
	D6	16:9 not functional during "Zoom" in the A/V Mode	16:9 functional during "Zoom" in the A/V Mode																		
	D5	No Child Lock	Child Lock																		
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)																		
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED																		
	D2	D2	COLOR SYSTEM		SOUND SYSTEM																
		0	0	CK : PAL ONLY (NO OSD)	B/G→D/K → I																
		0	1	CW : -. RF : AUTO→PAL →SECAM→NT4.43 -. A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I																
		D1	1	0	CB : -RF : PAL ONLY -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)															
	1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K →I→ NT →M																
D0	TDA8374		TDA8842	Onechip																	
B Y T E 1	D7	D7	D6	Southeast/Middle East Asia /Africa	Vietnam/India	Thailand/Malaysia	CIS	China													
		0	0	English Only	English Only	English Only	English Only	English only													
		0	1	English/Arabian	English/Vietnamese	English/Thai	English/CIS	English /Chinese													
		D6	1	0	English/Arabian/French	English/Indonesian	English/Malay														
	1		1	English Only	English/Vietnamese /Indonesian	English/Thai /Malay															
	D5	AFT ON (always)		AFT OFF (after fine tuning)																	
	D4	Existing sharpness level		Sharpness level Up		March 12, 1997															
	D3	No Auto Power On		Auto Power ON		Last State Memory															
	D2	NTSC : 25KHz (NTSC Table) PAL : 50KHz (PAL Table)		NTSC : 25KHz (NTSC Table) PAL : 50KHz (PAL Table)		PAL Table always used in the A/V Mode (March 12, 1997)															
	D1	<table border="1"> <thead> <tr> <th>D1</th> <th>D0</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>DIG</td> </tr> <tr> <td>0</td> <td>1</td> <td>D/K</td> </tr> <tr> <td>1</td> <td>0</td> <td>I</td> </tr> <tr> <td>1</td> <td>1</td> <td>NT-M</td> </tr> </tbody> </table>		D1	D0	System	0	0	DIG	0	1	D/K	1	0	I	1	1	NT-M	Sound system during the auto search (All should be set for the system which is selected during the Factory Reset.)		
				D1	D0	System															
0	0			DIG																	
0	1			D/K																	
1	0	I																			
1	1	NT-M																			
D0																					

4-2-4 (B) TTX MICOM (SPM-197EE/ER/EG) OPTION TABLE (FOR EUROPE)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM																	
B Y T E 0	D7	3 BAND	UHF ONLY	ALL																	
	D6	16:9 not functional during zoom in the A/V mode (NORMAL-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	ALL (BASIC : LOW)																	
	D5	LED RED AT STAND-BY	LED GREEN AT STAND-BY (POLAND)	ALL (J900 DELETE AT H)																	
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	ALL																	
	D3	P-STD MAX	P-STD NORMAL	ALL (BASIC : HIGH)																	
	D2	<table border="1"> <thead> <tr> <th>D2</th> <th>D1</th> <th>SOUND SYSTEM</th> <th>COLOR SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>B/G ↔ D/K : CK MODEL</td> <td rowspan="4">AUTO (NO OSD)</td> </tr> <tr> <td>0</td> <td>1</td> <td>I ONLY (NO OSD) : CI, CII MODEL</td> </tr> <tr> <td>1</td> <td>0</td> <td>B/G ONLY (NO OSD) : CB, CX MODEL</td> </tr> <tr> <td>1</td> <td>1</td> <td>NOT USED</td> </tr> </tbody> </table>		D2	D1	SOUND SYSTEM	COLOR SYSTEM	0	0	B/G ↔ D/K : CK MODEL	AUTO (NO OSD)	0	1	I ONLY (NO OSD) : CI, CII MODEL	1	0	B/G ONLY (NO OSD) : CB, CX MODEL	1	1	NOT USED	ALL
	D2	D1	SOUND SYSTEM	COLOR SYSTEM																	
	0	0	B/G ↔ D/K : CK MODEL	AUTO (NO OSD)																	
0	1	I ONLY (NO OSD) : CI, CII MODEL																			
1	0	B/G ONLY (NO OSD) : CB, CX MODEL																			
1	1	NOT USED																			
D1																					
D0	TDA8374A	TDA8842	ALL																		
B Y T E 1	D7	NOT USED		ALL (FIX : LOW)																	
	D6																				
	D5	Western OSD :English/German/French/Dutch/ Italian/Spanish/Swedish	Eastern OSD :English/Croatian/Rumanian/ Hungarian/Hungarian/Polish/Czech	SPM- 197EE ONLY used * SPM-197ER : English/Russian/ Bulgarian *SPM-197EG: English/Greek/ Yugosiavian																	
	D4	Existing sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using TDA6107Q AMP)	ALL (BASIC : HIGH)																	
	D3	No Auto Power On	Auto Power On	ALL (BASIC : HIGH)																	
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) BASIC : LOW (AV VOL. CURVE : PAL CURVE)																	
	D1	NOT USED (FIX : LOW)		Sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : Available when the sound is B/G ↔ D/K in the Byte 0																	
	D0	B/G SOUND	D/K SOUND																		

● P-STD Classification (CON./BRI./SHRP.COL.)

D3 BIT	STANDARD MODE	DYAMIC MODE	MOVIE MODE	MILD MODE	CUSTOM MODE
0	100/50/50/50	100/50/75/50	90/50/75/50	60/50/75/50	100/50/50/50
1	90/50/50/50	100/50/50/50	75/55/50/50	60/50/50/50	90/55/25/50

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal 2. AUDIO MUTE (during no signal)
3. No BLUE SCREEN 4. NO TIMER (CLOCK ON/OFF)

4-2-4 (C) TTX MICOM (SPM-197EP/EPR/EA) OPTION TABLE (FOR MIDDLE EAST)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM		
B Y T E 0	D7	NOT USED		ALL (FIX : LOW)		
	D6	16:9 not functional during zoom (NORMAL-ZOOM)	16:9 functional during zoom (NORMAL-ZOOM-16:9)	EP is an OPTION during A/V (BASIC : LOW)		
	D5	NOT USED		ALL (FIX : LOW)		
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	ALL		
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED	ALL		
	D2	D2	D1	COLOR SYSTEM	SOUND SYSTEM	
		0	0	CK : AUTO (No OSD)	(?)→B/G→D/K →	
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→	
		D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	
	1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→ NT → M →	
D0	TDA8374A	TDA8842	EP VERSION : TDA8374A ONLY			
B Y T E 1	D7	NOT USED		ALL (FIX : LOW)		
	D6					
	D5					
	D4	Existing Sharpness level (when using the TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	ALL (BASIC : HIGH)		
	D3	No Auto Power On	Auto Power On	ALL (BASIC : HIGH)		
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) BASIC : LOW (AV VOL. CURVE : PAL CURVE)		
	D1	D1	D0	SYSTEM	Sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : A single sound in the Byte 0 is unavailable	
		0	0	B/G		
	0	1	D/K			
	D0	1	0	I		
1		1	?(B/G & D/K OR M) /EP VER. : M			

● OSD Language by MiCOM

1. Persian (for Iran) : English/Persian (Iranian)
2. Arab (Middle East, Africa) : English/French/Arabian

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
3. No BLUE SCREEN

2. AUDIO MUTE (during no signal)
4. No TIMER (CLOCK ON/OFF)

4-2-4 (D) TTX MICOM (SPM-193EE/EER) OPTION TABLE (FOR EUROPE)

BYTE	BIT	LOW (0)	HIGH (1)	REMARK																	
B Y T E 0	D7	3 BAND	UHF ONLY	SZM-193EE : H NOT functional SZM-193EER :																	
	D6	16:9 not functional during zoom in the A/V mode (NORMAL-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	Basic Specification : LOW																	
	D5	LED RED AT STAND-BY	LED GREEN AT STAND-BY	POLAND (J900 DELETE AT H)																	
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	BASIC : LOW																	
	D3	P-STD MAX	P-STD NORMAL	ALL (BASIC : HIGH)																	
	D2	<table border="1"> <thead> <tr> <th>D2</th> <th>D1</th> <th>SOUND SYSTEM</th> <th>COLOR SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>B/G ↔ D/K : CK MODEL</td> <td rowspan="4">AUTO (NO OSD)</td> </tr> <tr> <td>0</td> <td>1</td> <td>I ONLY (NO OSD) : CI, CII MODEL</td> </tr> <tr> <td>1</td> <td>0</td> <td>B/G ONLY (NO OSD) : CB, CX MODEL</td> </tr> <tr> <td>1</td> <td>1</td> <td>NOT USED</td> </tr> </tbody> </table>		D2	D1	SOUND SYSTEM	COLOR SYSTEM	0	0	B/G ↔ D/K : CK MODEL	AUTO (NO OSD)	0	1	I ONLY (NO OSD) : CI, CII MODEL	1	0	B/G ONLY (NO OSD) : CB, CX MODEL	1	1	NOT USED	SOUND SYSTEM OPTION
	D2	D1	SOUND SYSTEM	COLOR SYSTEM																	
0	0	B/G ↔ D/K : CK MODEL	AUTO (NO OSD)																		
0	1	I ONLY (NO OSD) : CI, CII MODEL																			
1	0	B/G ONLY (NO OSD) : CB, CX MODEL																			
1	1	NOT USED																			
D0	TDA8374A	TDA8842	IC201 (ONE-CHIP) OPTION																		
B Y T E 1	D7	<table border="1"> <thead> <tr> <th>D7</th> <th>D6</th> <th>OSD Language</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td rowspan="2">English/German/French/Dutch/ Italian/Spanish/Swedish</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>English/Romanian/Hungarian/ Croatian/Polish/Czech/Russian</td> </tr> <tr> <td>1</td> <td>1</td> <td>English/Bulgarian/Greek/Yugo</td> </tr> </tbody> </table>		D7	D6	OSD Language	0	0	English/German/French/Dutch/ Italian/Spanish/Swedish	0	1	1	0	English/Romanian/Hungarian/ Croatian/Polish/Czech/Russian	1	1	English/Bulgarian/Greek/Yugo	Language Option			
	D7	D6	OSD Language																		
	0	0	English/German/French/Dutch/ Italian/Spanish/Swedish																		
	0	1																			
	1	0	English/Romanian/Hungarian/ Croatian/Polish/Czech/Russian																		
	1	1	English/Bulgarian/Greek/Yugo																		
	D6																				
D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW																		
D4	Existing Sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using TDA6107Q AMP)	BASIC : HIGH																		
D3	No Auto Power On	Auto Power On	BASIC: HIGH																		
D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (NTSC TABLE)	RF VOL. : CURVE, BASIC : LOW (AV VOL. CURVE:PAL CURVE)																		
D1	NOT USED (FIX : LOW)		Sound system during the Auto search (All should be set for the system which is selected during the Factory Reset.)																		
D0	SOUND B/G	SOUND D/K	Note: Only available during the specification of CK model in the Byte 0																		

● P-STD Classification (CON./BRI./SHRP./COL.)

D3 BIT	STANDARD MODE	DYAMIC MODE	MOVIE MODE	MILD MODE	CUSTOM MODE
0	100/50/50/50	100/50/75/50	90/50/75/50	60/50/75/50	100/50/50/50
1	90/50/50/50	100/50/50/50	75/55/50/50	60/50/50/50	90/55/25/50

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal 2. AUDIO MUTE (during no signal)
3. No BLUE SCREEN during no RF signal (Blue screen during A/V) 4. NO TIMER

4-2-4 (E) TTX MICOM (SZM-193EA/EAR/EV) OPTION TABLE

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM			
B Y T E 0	D7	LINE STEREO OFF	LINE STEREO ON	ALL			
	D6	16:9 not function during zoom in the A/V mode (Normal-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	BASIC : LOW			
	D5	CHILD LOCK OFF	CHILD LOCK ON	ALL (No SZM193EA)			
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	ALL			
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED	ALL			
	D2	D2	D2	D1	COLOR SYSTEM	SOUND SYSTEM	
		0	0	CK : AUTO (No OSD)		B/G→D/K	
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58		B/G→D/K → I	
D1		1	0	CB : -RF : PAL ONLY -A/V : AUTO→PAL →NT4.43→NT3.58		B/G ONLY (No OSD)	
	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58		B/G→D/K → I→ NT → M →		
D0		TDA8374A	TDA8842	ALL (No SZM193EA)			
B Y T E 1	D7	D7	D6	Middle East/Africa Version	Asia Version (SZM193EV)		
		0	0	English ONLY	English only		
		0	1	English/Arabian	English/Indonesian/Malay/Thai/Vietnamese		
		D6	1	0	English/Arabian/French		English/Vietnamese/Indonesian
			1	1	English ONLY		English/Thai/Malay
	D5		AFT ON (always)	AFT OFF after fine tuning (for India)	ALL (No SZM-193EA)		
	D4		Existing Sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using TDA6107Q RGB AMP)	ALL (BASIC : HIGH)		
	D3		No Auto Power On	Auto Power On	ALL (BASIC : HIGH)		
	D2		NTSC : 25KHz(NTSC TABLE) PAL : 50 KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (NTSC TABLE)	ALL (RF VOL.: HIGH) BASIC : LOW (AV VOL. CURVE : PAL CURVE)		
	D1	D1	D0	SYSTEM		Initial sound system during the auto search (All should be for the system which is selected during the Factory Reset.) Note : Unavailable during the CB model in the byte 0	
		0	0	B/G			
0		1	D/K				
D0		1	0	I			
	1	1	NT-M				

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
2. AUDIO MUTE (during no signal)
3. No BLUE SCREEN

- 4. TIMER (CLOCK ON/OFF)

4-2-4 (F) TTX MICOM (SZM-191ER) OPTION TABLE (FOR RUSSIA, OCEANIA)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM	
B Y T E 0	D7	NOT USED		FIX : LOW	
	D6	16:9 not functional during zoom in the A/V mode (NORMAL-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	BASIC : LOW	
	D5	NOT USED		FIX : LOW	
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)		
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED	BASIC : LOW	
	D2	D2	COLOR SYSTEM		SOUND SYSTEM
		0	0	CK : AUTO (No OSD)	B/G→D/K
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I
		D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58
	1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M
D0	TDA8374A	TDA8842	IC201(ONE-CHIP) OPTION		
B Y T E 1	D7	NOT USED		FIX : LOW	
	D6	English ONLY	English/Russian	Language option	
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW	
	D4	Existing Sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	BASIC : HIGH	
	D3	No Auto Power On	Auto Power On	BASIC : HIGH	
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) , BASIC :LOW (AV VOL. CURVE: PAL CURVE)	
	D1	D1	D0	System	Initial sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : Unavailable during the CB model in the Byte 0
		0	0	DIG	
0		1	D/K		
D0		1	0	I	
	1	1	NT-M		

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal 2. AUDIO MUTE during no signal
3. BLUE SCREEN ON/OFF 4. No TIMER CLOCK

- The SZM191ER is to be diverted to Australia/New Zealand because of the non-functionality of RGB (of pin 21).
(OPTION BYTE : 55/1C)→ When using TDA8842 N1, the BLOOMING check is required.

4-2-4 (G) TTX MICOM (SZM-193EVR) OPTION TABLE (FOR ASIA)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM																						
B Y T E 0	D7	LINE STEREO OFF	LINE STEREO ON																							
	D6	16:9 not function during zoom in the A/V mode (Normal-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	BASIC : LOW																						
	D5	CHILD LOCK OFF	CHILD LOCK ON																							
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	BASIC : HIGH																						
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED																							
	D2	D2	<table border="1"> <thead> <tr> <th>D2</th> <th>D1</th> <th>COLOR SYSTEM</th> <th>SOUND SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>CK : AUTO (No OSD)</td> <td>B/G→D/K</td> </tr> <tr> <td>0</td> <td>1</td> <td>CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58</td> <td>B/G→D/K → I</td> </tr> <tr> <td rowspan="2">D1</td> <td>1</td> <td>0</td> <td>CB : -RF : PAL ONLY -A/V : AUTO→PAL →NT4.43→NT3.58</td> <td>B/G ONLY (No OSD)</td> </tr> <tr> <td>1</td> <td>1</td> <td>CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58</td> <td>B/G→D/K → I→ NT → M →</td> </tr> </tbody> </table>		D2	D1	COLOR SYSTEM	SOUND SYSTEM	0	0	CK : AUTO (No OSD)	B/G→D/K	0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I	D1	1	0	CB : -RF : PAL ONLY -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M →	
		D2	D1	COLOR SYSTEM	SOUND SYSTEM																					
		0	0	CK : AUTO (No OSD)	B/G→D/K																					
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I																					
	D1	1	0	CB : -RF : PAL ONLY -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)																					
1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M →																						
D0	TDA8374A	TDA8842	IC201 (ONE-CHIP) OPTION																							
B Y T E 1	D7	<table border="1"> <thead> <tr> <th>D7</th> <th>D6</th> <th>OSD Language</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>English ONLY</td> </tr> <tr> <td>0</td> <td>1</td> <td>English/Indonesian/Malay/Thai/Vietnamese</td> </tr> <tr> <td rowspan="2">D6</td> <td>1</td> <td>0</td> <td>English/Vietnamese/Indonesian</td> </tr> <tr> <td>1</td> <td>1</td> <td>English/Thai/Malay</td> </tr> </tbody> </table>		D7	D6	OSD Language	0	0	English ONLY	0	1	English/Indonesian/Malay/Thai/Vietnamese	D6	1	0	English/Vietnamese/Indonesian	1	1	English/Thai/Malay	Language option						
		D7	D6	OSD Language																						
		0	0	English ONLY																						
		0	1	English/Indonesian/Malay/Thai/Vietnamese																						
		D6	1	0	English/Vietnamese/Indonesian																					
	1		1	English/Thai/Malay																						
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW(India : HIGH)																						
	D4	CLOCK DISPLAY OFF	CLOCK DISPLAY ON	BASIC : LOW Indonesia : HIGH																						
	D3	No Auto Power On	Auto Power On	BASIC : HIGH																						
	D2	NTSC : 25KHz(NTSC TABLE) PAL : 50 KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (NTSC TABLE)	ALL (RF VOL.: HIGH) BASIC : LOW (AV VOL. CURVE : PAL CURVE)																						
D1	<table border="1"> <thead> <tr> <th>D1</th> <th>D0</th> <th>SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>B/G</td> </tr> <tr> <td>0</td> <td>1</td> <td>D/K</td> </tr> <tr> <td rowspan="2">D0</td> <td>1</td> <td>0</td> <td>I</td> </tr> <tr> <td>1</td> <td>1</td> <td>NT-M</td> </tr> </tbody> </table>		D1	D0	SYSTEM	0	0	B/G	0	1	D/K	D0	1	0	I	1	1	NT-M	Initial sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : Unavailable during the CB model in the Byte 0							
	D1	D0	SYSTEM																							
	0	0	B/G																							
	0	1	D/K																							
D0	1	0	I																							
	1	1	NT-M																							

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
- 2. AUDIO MUTE during no signal
- 3. BLUE SCREEN On/off
- 4. TIMER CLOCK ON/OFF

4-2-4 (H) NON TTX MICOM (SZM-193EV2) OPTION TABLE (FOR ASIA)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM																						
B Y T E 0	D7	LINE STEREO OFF	LINE STEREO ON																							
	D6	16:9 not function during zoom (Normal-ZOOM)	16:9 functional during zoom (NORMAL-ZOOM-16:9)	BASIC : LOW																						
	D5	CHILD LOCK OFF	CHILD LOCK ON																							
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	BASIC : HIGH																						
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED																							
	D2	D2	<table border="1"> <thead> <tr> <th>D2</th> <th>D1</th> <th>COLOR SYSTEM</th> <th>SOUND SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>CK : AUTO (No OSD)</td> <td>(?)→B/G→D/K →</td> </tr> <tr> <td>0</td> <td>1</td> <td>CW : -. RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58</td> <td>(?)→B/G→D/K → I→</td> </tr> <tr> <td rowspan="2">D1</td> <td>1</td> <td>0</td> <td>CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58</td> <td>B/G ONLY (No OSD)</td> </tr> <tr> <td>1</td> <td>1</td> <td>CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58</td> <td>(?)→B/G→D/K → I→ NT → M →</td> </tr> </tbody> </table>		D2	D1	COLOR SYSTEM	SOUND SYSTEM	0	0	CK : AUTO (No OSD)	(?)→B/G→D/K →	0	1	CW : -. RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→	D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→ NT → M →	
		D2	D1	COLOR SYSTEM	SOUND SYSTEM																					
		0	0	CK : AUTO (No OSD)	(?)→B/G→D/K →																					
0		1	CW : -. RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→																						
D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)																						
	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→ NT → M →																						
D0	TDA8374A	TDA8842	IC201 (ONE-CHIP) OPTION																							
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	1	0	English/Vietnamese/Indonesian																							
	1	1	English/Thai/Malay																							
	D6																									
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW(India : HIGH)																						
D4	CLOCK DISPLAY OFF	CLOCK DISPLAY ON	BASIC : LOW Indonesia : HIGH																							
D3	No Auto Power On	Auto Power On	BASIC : HIGH																							
D2	NTSC : 25KHz(NTSC TABLE) PAL : 50 KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (NTSC TABLE)	RF VOL.CURVE BASIC : LOW (AV VOL. CURVE : PAL CURVE)																							
D1	<table border="1"> <thead> <tr> <th>D1</th> <th>D0</th> <th>SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>B/G</td> </tr> <tr> <td>0</td> <td>1</td> <td>D/K</td> </tr> <tr> <td>1</td> <td>0</td> <td>I</td> </tr> <tr> <td>1</td> <td>1</td> <td>? B/G & D/K OR M</td> </tr> </tbody> </table>		D1	D0	SYSTEM	0	0	B/G	0	1	D/K	1	0	I	1	1	? B/G & D/K OR M	Initial sound system during the auto search (All should be set for the system which is selected dur- ing the Factory Reset.) Note: Unavailable during the CB model in the Byte 0								
	D1	D0	SYSTEM																							
	0	0	B/G																							
	0	1	D/K																							
1	0	I																								
1	1	? B/G & D/K OR M																								
D0																										

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
- 2. AUDIO MUTE during no signal
- 3. BLUE SCREEN On/off
- 4. TIMER Clock On/Off

4-2-4 (I) TTX MICOM (SPM-193EA2) OPTION TABLE (FOR MIDDLE EAST ASIA/AFRICA)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM		
B Y T E 0	D7	LINE STEREO OFF	LINE STEREO ON			
	D6	16:9 not functional during zoom in the A/V mode (NORMAL-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	BASIC : LOW		
	D5	CHILD LOCK OFF	CHILD LOCK ON			
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)			
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED			
	D2	D2	COLOR SYSTEM		SOUND SYSTEM	
		0	0	CK : AUTO (No OSD)	(?)→B/G→D/K →	
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→	
		D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	B/G ONLY (No OSD)
	1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	(?)→B/G→D/K → I→ NT → M →	
D0	TDA8374A		TDA8842	IC201 (ONE-CHIP) OPTION		
B Y T E 1	D7	NOT USED			FIX : LOW	
	D6					
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW		
	D4	Existing Sharpness level (when using the TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	BASIC : HIGH		
	D3	No Auto Power On	Auto Power On	BASIC : HIGH		
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) BASIC : LOW (AV VOL. CURVE : PAL CURVE)		
	D1	D1	D0	SYSTEM		Initial sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : Unavailable during the CB model in the Byte 0
		0	0	B/G		
D0	0	1	D/K			
	1	0	I			
	1	1	? B/G & D/K OR M			

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
- 2. AUDIO MUTE (during no signal)
- 3. BLUE SCREEN On/Off
- 4. No Timer Clock On/Off

4-2-4 (J) TTX MICOM (SZM-193EC) OPTION TABLE (FOR CHINA)

BYTE	BIT	LOW (0)	HIGH (1)	Remark																						
B Y T E 0	D7	LINE STEREO OFF	LINE STEREO ON	BASIC : LOW																						
	D6	16:9 not functional during zoom in the A/V mode (NORMAL-ZOOM)	16:9 functional during zoom in the A/V mode (NORMAL-ZOOM-16:9)	BASIC : LOW																						
	D5	CHILD LOCK OFF	CHILD LOCK ON																							
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)	BASIC : LOW																						
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED	BASIC : HIGH																						
	D2	D2	<table border="1"> <thead> <tr> <th>D2</th> <th>D1</th> <th>COLOR SYSTEM</th> <th>SOUND SYSTEM</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>CK : AUTO (No OSD)</td> <td>B/G→D/K</td> </tr> <tr> <td>0</td> <td>1</td> <td>CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58</td> <td>B/G→D/K → I</td> </tr> <tr> <td rowspan="2">D1</td> <td>1</td> <td>0</td> <td>CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58</td> <td>B/G OSD</td> </tr> <tr> <td>1</td> <td>1</td> <td>CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58</td> <td>B/G→D/K → I→ NT → M</td> </tr> </tbody> </table>		D2	D1	COLOR SYSTEM	SOUND SYSTEM	0	0	CK : AUTO (No OSD)	B/G→D/K	0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I	D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	B/G OSD	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M	
		D2	D1	COLOR SYSTEM	SOUND SYSTEM																					
	0	0	CK : AUTO (No OSD)	B/G→D/K																						
0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I																							
D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58	B/G OSD																						
	1	1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M																						
D0	TDA8374A	TDA8842	IC201(ONE-CHIP) OPTION																							
B Y T E 1	D7	NOT USED		FIX : LOW																						
	D6	English ONLY	English/Russian	Language option																						
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW																						
	D4	Existing Sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	BASIC : HIGH																						
	D3	No Auto Power On	Auto Power On	BASIC : HIGH																						
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) , BASIC:LOW (AV VOL. CURVE: PAL CURVE)																						
	D1	<table border="1"> <thead> <tr> <th>D1</th> <th>D0</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>DIG</td> </tr> <tr> <td>0</td> <td>1</td> <td>D/K</td> </tr> <tr> <td rowspan="2">D0</td> <td>1</td> <td>0</td> <td>I</td> </tr> <tr> <td>1</td> <td>1</td> <td>NT-M</td> </tr> </tbody> </table>		D1	D0	System	0	0	DIG	0	1	D/K	D0	1	0	I	1	1	NT-M	Initial sound system during the auto search (All should be set for the system which is selected during the Factory Reset.) Note : Unavailable during the CD model in the Byte 0						
D1		D0	System																							
0	0	DIG																								
0	1	D/K																								
D0	1	0	I																							
	1	1	NT-M																							

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal
- 2. AUDIO MUTE during no signal
- 3. BLUE SCREEN On/Off
- 4. TIMER CLOCK On/Off

4-2-4 (K) NON TTX MICOM (SZM-191EC) OPTION TABLE (FOR CHINA)

BYTE	BIT	LOW (0)	HIGH (1)	Application MICOM	
B Y T E 0	D7	NOT USED		FIX : LOW	
	D6	16:9 not functional during zoom (NORMAL-ZOOM)	16:9 functional during zoom (NORMAL-ZOOM-16:9)	BASIC : LOW	
	D5	NOT USED		FIX : LOW	
	D4	CH Up/down functional in the A/V mode (SCART Jack)	CH Up/down not functional in the A/V mode (RCA Jack)		
	D3	SOUND-I SYSTEM USED	SOUND-I SYSTEM NOT USED	BASIC : LOW	
	D2	D2	COLOR SYSTEM		SOUND SYSTEM
		0	0	CK : AUTO (No OSD)	B/G→D/K
		0	1	CW : - RF : AUTO→PAL →SECAM→NT4.43 - A/V : AUTO→PAL→SECAM →NT4.43 →NT3.58	B/G→D/K → I
		D1	1	0	CB : -RF : PAL ONLY (No OSD) -A/V : AUTO→PAL →NT4.43→NT3.58
	1		1	CS : - RF : AUTO→PAL →SECAM →NT4.43→NT 3.58 -A/V : AUTO→PAL →SECAM →NT4.43 →NT3.58	B/G→D/K → I→ NT → M
D0	TDA8374A	TDA8842	IC201(ONE-CHIP) OPTION		
B Y T E 1	D7	NOT USED		FIX : LOW	
	D6	English ONLY	English/Russian	Language option	
	D5	AFT ON (always)	AFT OFF (after fine tuning)	BASIC : LOW	
	D4	Existing Sharpness level (when using TDA6108 RGB AMP)	Sharpness level up (when using the TDA6107Q RGB AMP)	BASIC : HIGH	
	D3	No Auto Power On	Auto Power On	BASIC : HIGH	
	D2	NTSC : 25KHz (NTSC TABLE) PAL : 50KHz (PAL TABLE)	NTSC : 25KHz (NTSC TABLE) PAL : 27KHz (PAL TABLE)	ALL (RF VOL. CURVE) , BASIC :LOW (AV VOL. CURVE: PAL CURVE)	
	D1	D1	D0	System	Initial sound system during the auto search (All should be set for the system which is selected dur- ing the Factory Reset.) Note : Unavailable during the CD model in the Byte 0
		0	0	DIG	
0		1	D/K		
D0		1	0	I	
	1	1	NT-M		

- Function Required : 1. PICTURE OFF (after 15 minutes) during no signal 2. AUDIO MUTE during no signal
- 3. BLUE SCREEN ON/OFF 4. No TIMER CLOCK

4-2-5 RESET

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

1. Channels	Add/Erase
2. Sort	Non
3. System	Auto
4. Timer	off
5. Blue Screen	off
6. Child Lock	off
7. Picture	standard
8. Volume	26
9. CH. Skip	Erased

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 10 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 27.5KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 27.5KV 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 $130 \pm 2.5V$ (See Fig. 4-1).

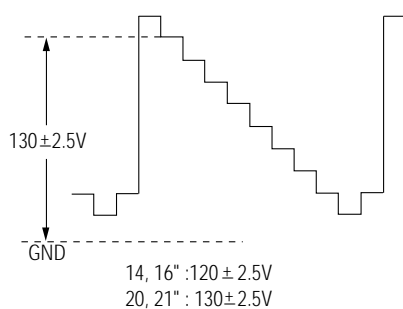


Fig. 4-1

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 receive 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.

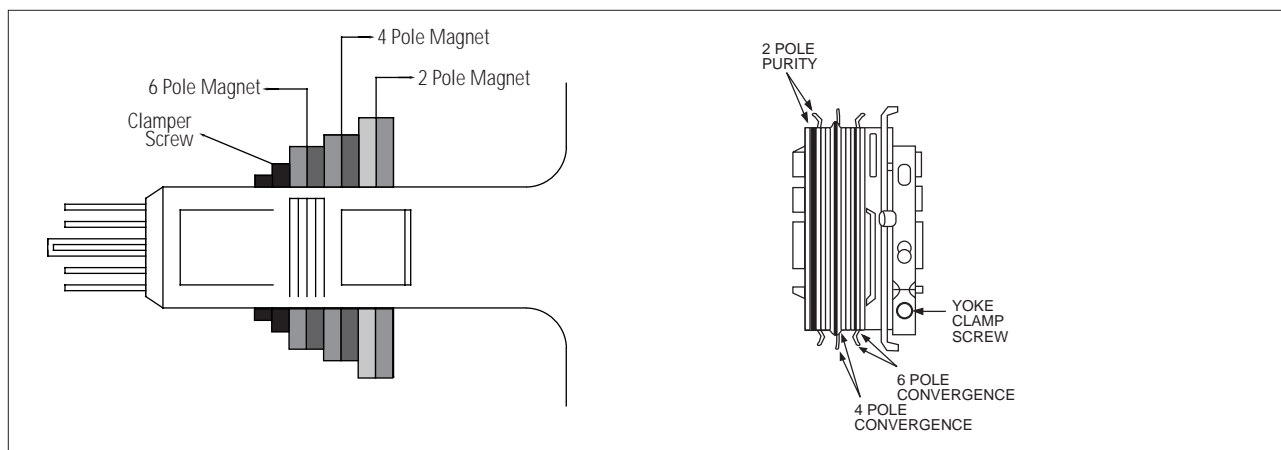


Fig. 4-2 Convergence Magnet Assembly

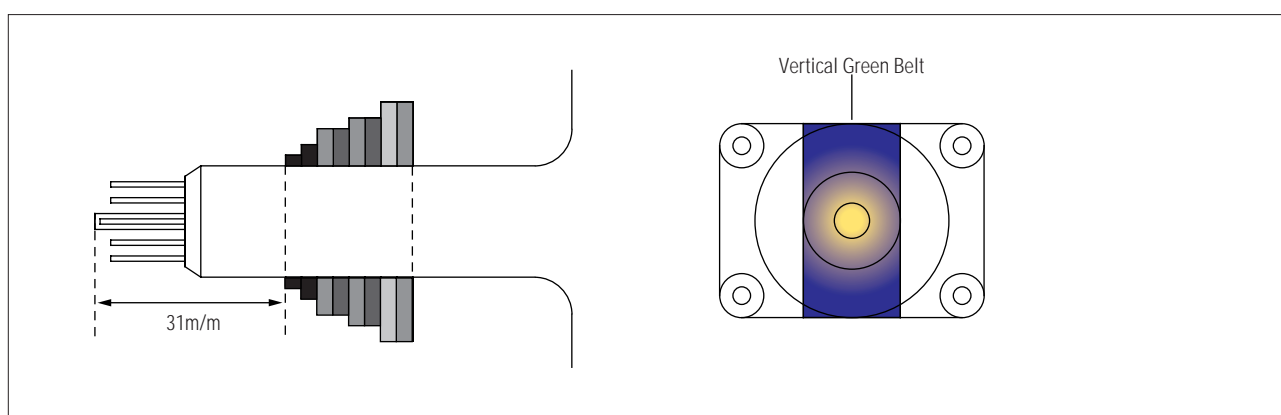


Fig. 4-3 Center Convergence Adjustment

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:

SLEEP →FACTORY → FACTORY

2. Input a Toshiba pattern.

(b) High-Light Adjustment

1. Set SBT to 2.0 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) Low-Light Adjustment

1. Set SCT to 50.0 fL in the Factory Service Mode with using CA100. See Fig. 4-4 ①.

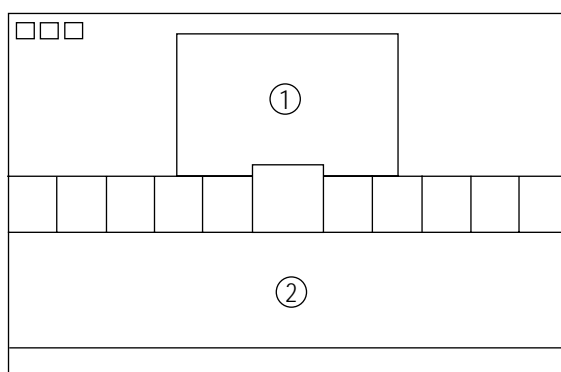


Fig. 4-4

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 VCO Adjustment

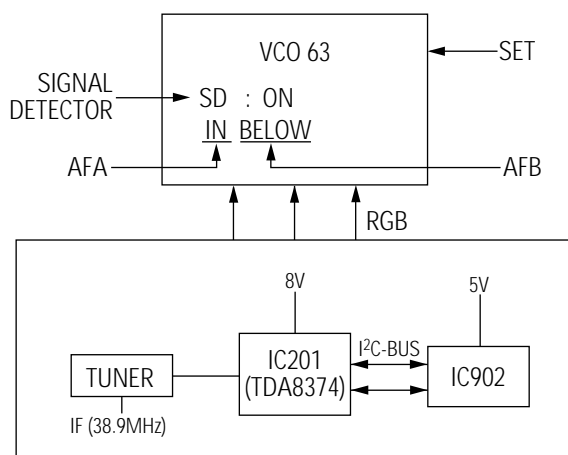


Fig. 4-6

1. Turn on the TV.
2. Set IF port of tuner to 38.9MHz. (Use a pattern generator).
3. Input a color bar pattern (PAL-B/G system).
4. In the Factory Service Mode, select "Adjustment → VCO" and set VCO data to 63.
5. Ensure "SD On" (Signal Input) and "SD Off" (No Signal).
6. Adjust T201 (connected to TDA8374A pins3,4) so that AFA Bit is "INSIDE WINDOW" (the AFB Bit is above~below).

4-3-10 RF AGC Adjustment

1. Connect a pattern generator (PM5418) RF signal to tuner RF.
2. Select a gray scale pattern and PAL-B/G system. Set to 479.25MHz.
3. Connect IC201 (ONECHIP) pin 53 to a digital multimeter.
4. Adjust AGC (using volume keys) in the Factory Service Mode. Set IC201 (ONECHIP) pin 54 to $3.7 \pm 0.05V$ (DC).
5. Adjust AGC within 20 seconds after power ON.

4-3-11 Sub-Color Adjustment

Set the SCR data steps to 15 in the Factory Mode.

4-3-12 Geometry Adjustment

(SC → PVA → PVS → PSL → PHS)

1. Input a lion head pattern (in the PAL channel).
2. Set the SC (S-Correction) 10 data steps and PSL 20 data steps so that the lion head circle becomes oval.
3. Adjust with PVS (Vertical-shift) : Lion head pattern and mechanical centers must be aligned.
4. Adjust with PVA (Vertical-Amplitude) : Top margin of the picture is 4.

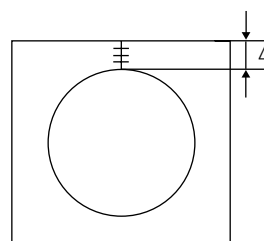


Fig. 4-7

5. Adjust with PSL (Vertical-Slope) : Bottom margin of the picture is 4.

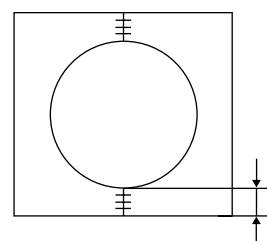


Fig. 4-8

6. Adjust with PHS (Horizontal Shift) : Lion head pattern and CRT centers are aligned.

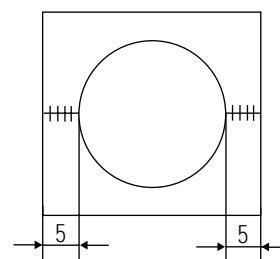


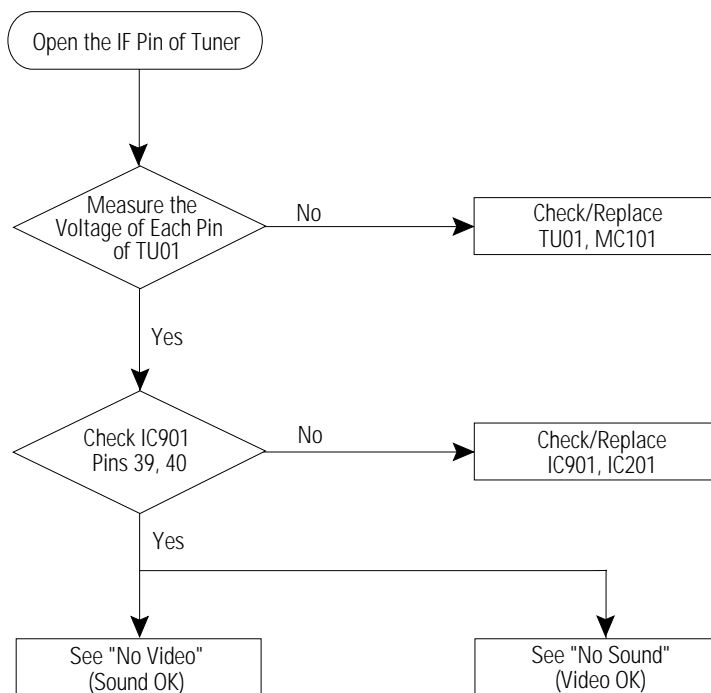
Fig. 4-9

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

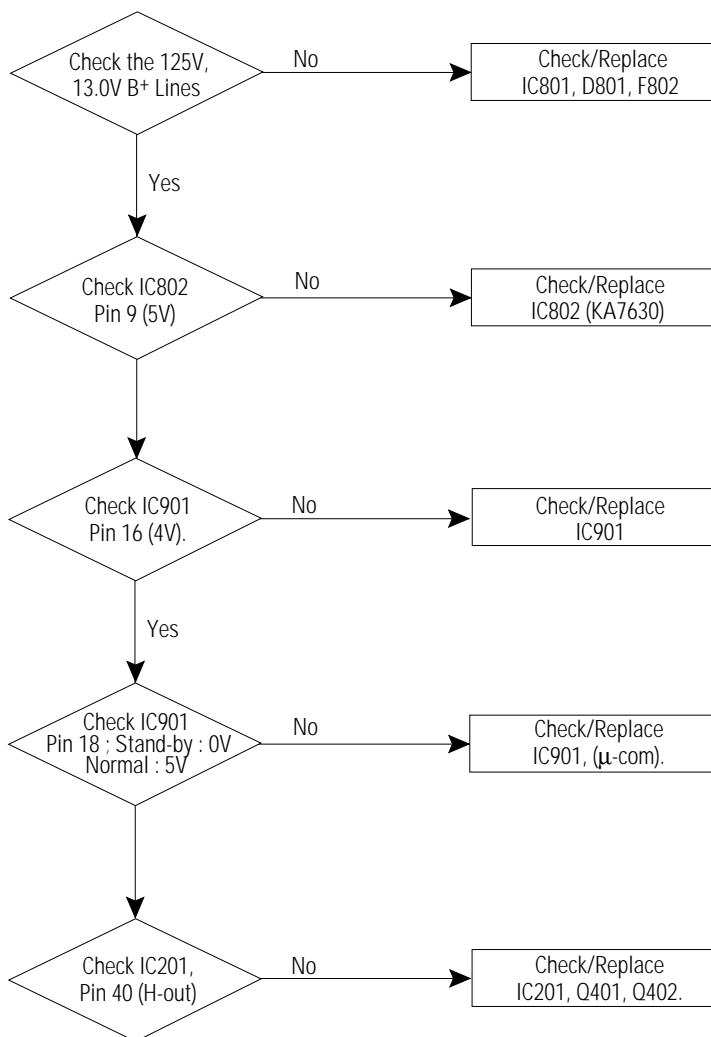
MEMO

5. Troubleshooting

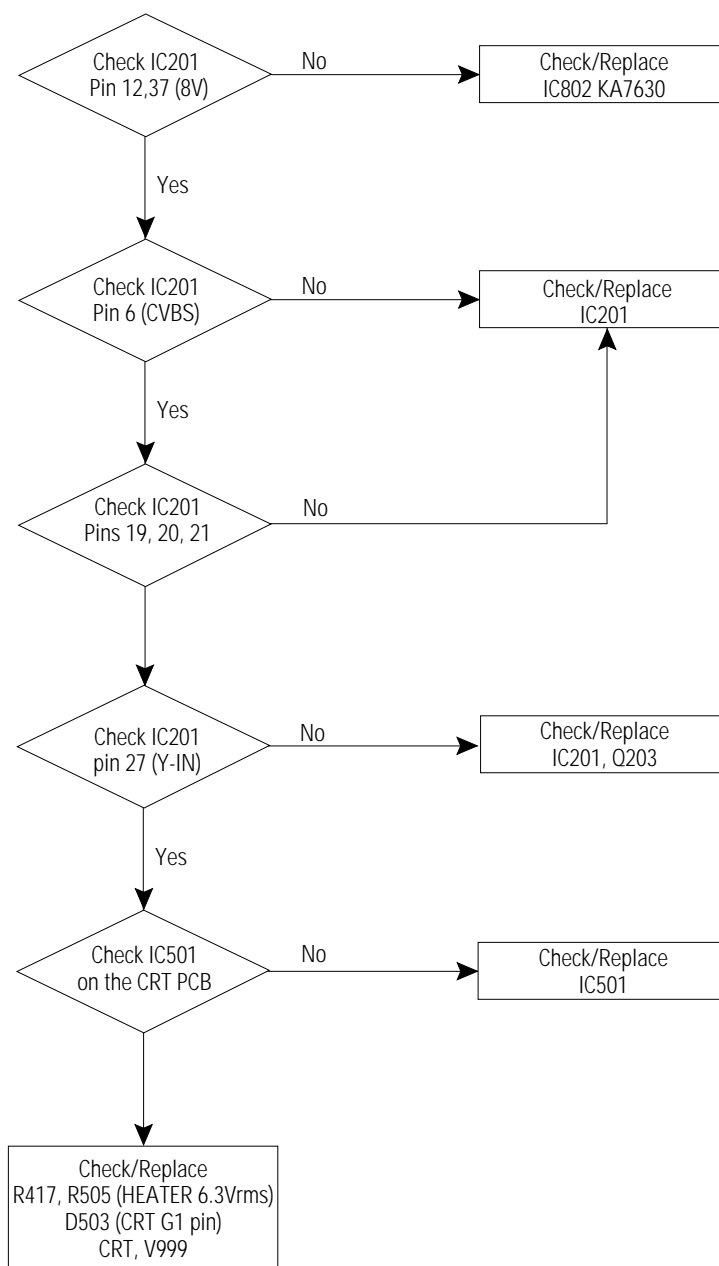
5-1 No Video (Raster On, No Sound)



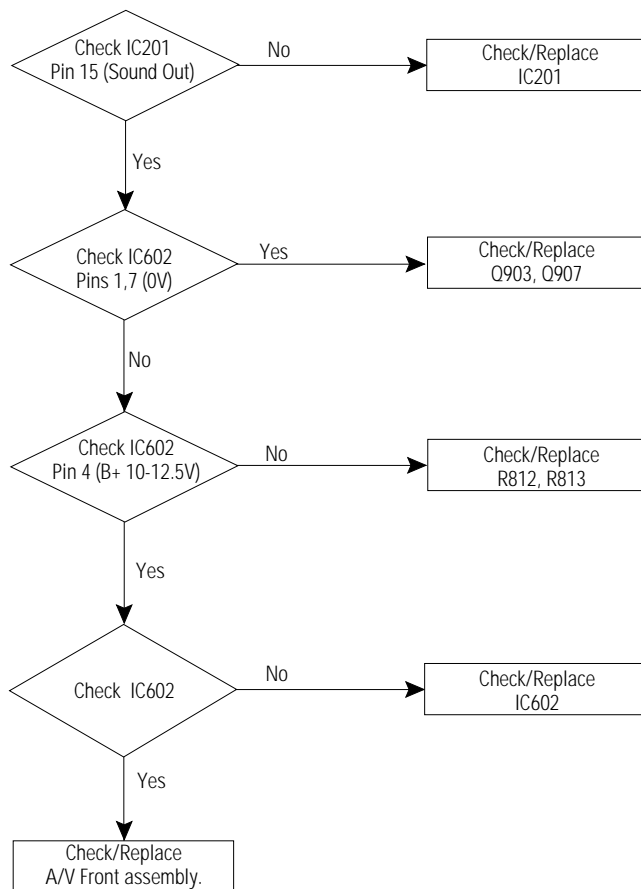
5-2 No Power



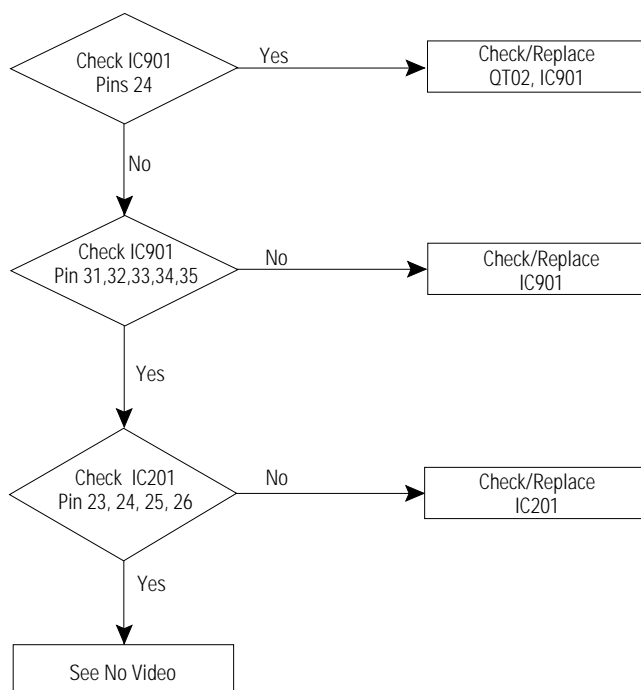
5-3 No Video (Sound OK)



5-4 No Sound (Video OK)

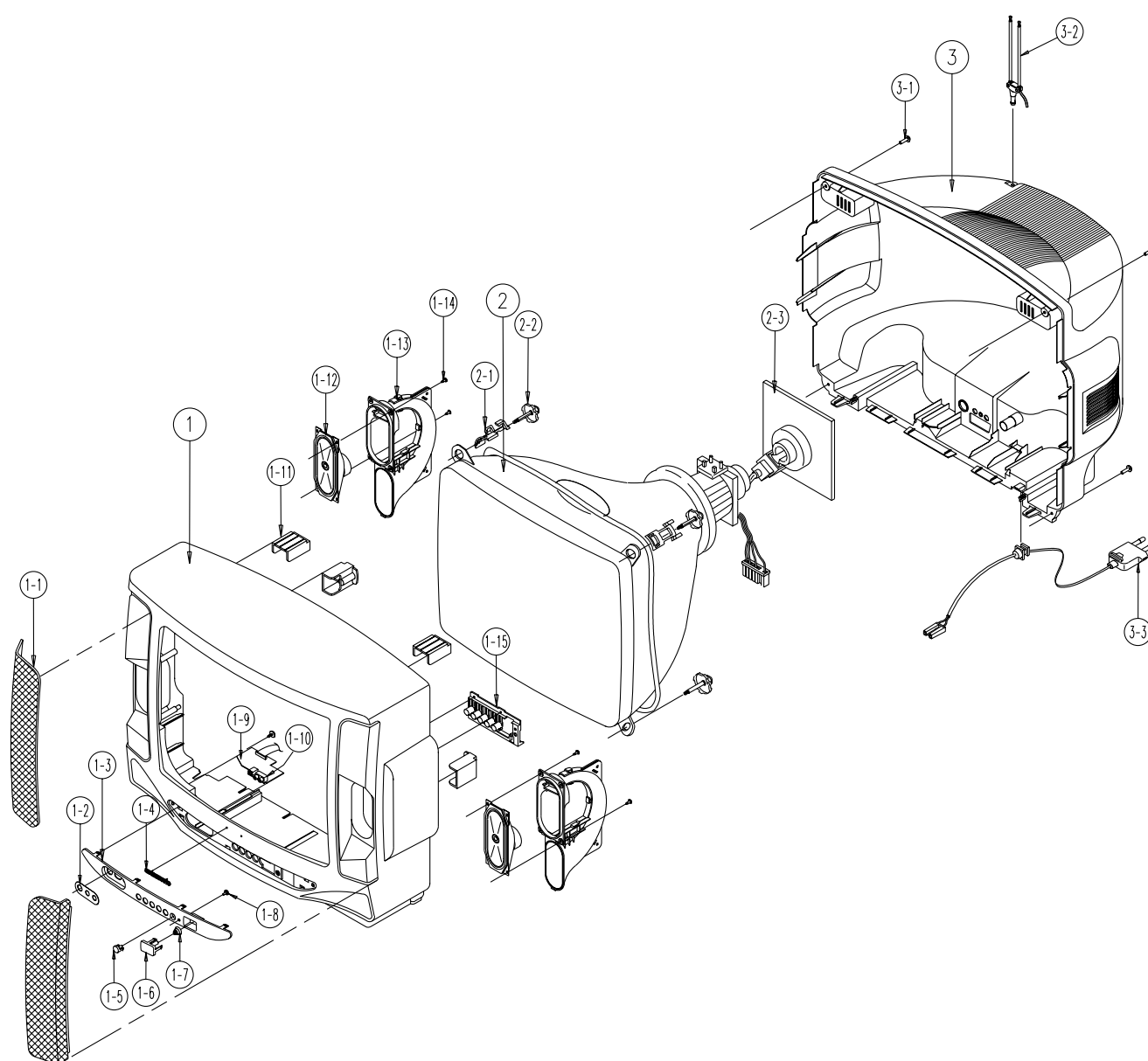


5-5 No TTX



6. Exploded View & Parts List



6-1 CK5066ZR4X/BWT








No	Code No	Description	Specification	Q'ty	Remark
1	AA91-10163U	ASSY-CABINET,FRONT	-,CK5066ZR,PA100 MWN,	1	
	AA64-30678C	CABINET-FRONT	-,5066,PA100 CIS,HIPS,HB,B	1	
1-1	AA63-50196A	GRILLE-WOOFER	-,5066,PA110,SECC,T0.5,-,-	2	
1-2		ASSY-CABINAT,FRONT OPTION			
1-3	AA63-30072K	COVER-CONTROL,A	-,CK5066ZR,KSP213 MW,HIP	1	
1-4	AA64-70010B	BADGE-BRAND	AL,SS R2000 25,SILVER,L50,-,	1	
1-5	AA64-40360A	WINDOW-REMOCON	-,66,LG41338,ABS,HB,CLR,-	1	
1-6	AA64-10560F	KNOB-POWER	-,38.5066,-,ABS,HB,M/B	1	
1-7	AA61-60003T	SPRING-CS	-,SUS304,0.5,OD7,H13.5,N5,-,-,	1	
1-8	AA64-40184A	INDICATOR-LED	-,3373,-,ACRYL,-,-,-	1	
1-9	3722-000143	JACK-PHONE	1P(VER),3.4mm,AG,BLK,NO	1	
1-10	3722-000506	JACK-RCA	2P,3.6MM,-,AG	1	
1-11	AA61-40015A	BOSS-CABINET	-,HIPS,HB,NTR,-,-	4	
1-12	AA91-60249A	ASSY-HOLDER,SPK	-,PP,HB,BLK,8R6W,5066	1	
1-13		ASSY-HOLDER,SPK, OPTION			
1-14	6002-000522	SCREW-TAPPING	TH,+,2,M4,L15,ZPC(BLK),SWR	8	
1-15	AA64-10559B	KNOB-CONTROL	-,66,-,ABS,HB,M/B	1	
2	AA03-10003L	CRT-COLOR	-,A48KRD82X(U),+380MG,20,90DE	1	
2-1	AA65-30019A	CLAMP-D,COIL	NYLON-66,V0,NTR,DADH-460 20	4	
2-2	AA60-10050D	SCREW-ASSY	WC,HH,+,M5,L33,SWRCH18,ZPC(YE	4	
2-3	3704-000110	SOCKET-CRT	14P,29.1,25.5,SN,ISHS09S/BK	1	
3	AA64-30680D	CABINET-BACK	-,5066,-,HIPS,V2,BLK,-,-	1	
3-1	6002-000514	SCREW-TAPPING	RH,+,2,M4,L15,ZPC(BLK),SWR	4	
3-2	AA42-10001V	ANT-ROD	-,3S,620mm,BRN,UL/CSA	1	
3-3	AA39-10001G	POWER-CORD	-,KKP-419C,KLCE-2F,2.286M,HOU	1	

7. Electric Parts List

7-1 CK5366ZR4X/BWT (CK5066ZR4X AND CK5366ZR4X Dissimilar Parts)

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-PCB,MAIN(OPT) BUYER : SALSC (ALMATY)				ASSY-CABINET,OPTION			
*	AA94-10117D	ASSY-PCB,MAIN(OPT);CK5366ZR4X/BWT,SCT13B		AA91-10264Z	ASSY-CABINET,FRONT;- ,CK5366ZR,PA100		
C409	2306-000353	C-FILM,MPPF;6.3nF,5%,1.6KV,BK,26.5x8.5x1		AA64-30845E	CABINET-FRONT;- ,5366,PA100		
CN802	AA27-20001Z	COIL-DEGAUSSING;- ,21,14.5ohm,35T,L2500,		AA64-30846D	CABINET-BACK;- ,5366,- ,HIPS,V2,BLK,- ,-		
R253	2001-000337	R-CARBON:130Kohm,5%,1/8W,AA,TP,1.8x3.2m		AA63-30118K	COVER-CONTROL,A;- ,CK5366ZR,KSP213		
R301	2004-000717	R-METAL:3.6KOHM,1%,1/8W,AA,TP,1.8X3.2M		AA63-50275A	GRILLE-WOOFFER;- ,5366,PA110,SECC-1,T0.5,-		
R305	2004-004087	R-METAL(S);1.5OHM,1%,1/2W,AA,TP,2.5X6.5M		AA64-10581F	KNOB-POWER;- ,5366,- ,ABS,HB,M		
R307	2003-001034	R-METAL OXIDE(S);270OHM,5%,1W,AF,TP,2.5X					
ASSY-CRT							
	AA03-10004J	CRT-COLOR;- ,A51KQJ63X(U),+380MG,21,90DE					
	AA27-50002G	DEFLECTION-YOKE;- ,DST-2192ML(1),21/A51K					
	AA27-60001D	MAGNET-CONVERGENCE;- ,JH-291-(JH-8210),29					

7-2 CK3366ZR4X/BWT (CK5066ZR4X AND CK3366ZR4X Dissimilar Parts)

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-PCB,MAIN(OPT) BUYER : SALSC (ALMATY)				AA64-10582F KNOB-POWER;- ,ABS,HB,M/B;- ,336 AA64-70009F BADGE-BRAND;AL,SS			
*	AA94-10117G	ASSY-PCB,MAIN(OPT);CK3366ZR4X/BWT,SCT13B					
C409	2306-000353	C-FILM,MPPF;6.3nF,5%,1.6KV,BK,26.5x8.5x1					
C416	2306-000194	C-FILM,MPPF;360nF,5%,400V,BK,26x21x14,20					
CN501	AA39-20122B	LEAD-CONNECTOR,ASSY;- ,YBNH025-08,YBNH025					
CN802	AA27-20001L	COIL-DEGAUSSING;- ,14,23.0OHM,100T,L940,					
	Q401	0502-000294 TR-POWER;KSD5071YD,NPN,50W,TO-3PF,ST,8					
R253	2001-000305	R-CARBON:110Kohm,5%,1/8W,AA,TP,1.8x3.2m					
R302	2003-000649	R-METAL OXIDE(S);330ohm,5%,1W,AF,TP,3.3x					
R305	2004-004087	R-METAL(S);1.5OHM,1%,1/2W,AA,TP,2.5X6.5M					
R410	2004-002011	R-METAL(S);110Kohm,1%,1/2W,AA,TP,2.4x6.4					
R411	2004-002011	R-METAL(S);110Kohm,1%,1/2W,AA,TP,2.4x6.4					
R505	2008-000266	R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm					
	T444	AA26-30004H TRANS-FLYBACK;- ,FSV-14A001,14,125V					
	V999	3704-000103 SOCKET-CRT;10P,22.5,14.3,SN,ISMS01S/BK					
ASSY-CRT							
	AA03-10001D	CRT-COLOR;- ,A34KQV42X,+380MG,14,90DEG,5					
	AA27-50001K	DEFLECTION-YOKE;- ,DSE-1422FL,14/A34KQV4					
	AA27-60001L	MAGNET-CONVERGENCE;- ,NY-225,22.5MM					
ASSY-CABINET,OPTION							
	AA91-10265K	ASSY-CABINET,FRONT;- ,CK3366ZR,PA100					
	AA64-30850D	CABINET-FRONT;- ,3366,PA100					
	AA64-30851D	CABINET-BACK;- ,3366,- ,HIPS,V2,BLK,- ,-					
	AA65-30016A	CLAMP-D,COIL;NYLON-66,V0,NTR,DADH-360					
	AA63-30120E	COVER-CONTROL,A;- ,CK3366ZR,KSP213					
	AA63-50274A	GRILLE-WOOFFER;- ,3366,PA110,SECC-1,T0.5,-					

7-3 CK5066ZR4X/BWT Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
		ASSY-PCB,MAIN(OPT)					
		BUYER : SALSC (ALMATY)					
		* AA94-10116Z ASSY-PCB,MAIN(OPT);CK5066ZR4X/BWT,SCT13B					
C101	2401-000914	C-AL:22uF,20%,16V,-,TP,5x11,5mm		C419	2201-000984	C-CERAMIC,DISC:680pF,10%,2KV,Y5P,TP,11x6	
C102	2401-001082	C-AL:330NF,20%,50V,GP,TP,5X11MM,5MM		C502	2301-000213	C-FILM,PEF:220nF,5%,250V,TP,21.5x11,7.5	
C103	2401-000808	C-AL:220uF,20%,16V,GP,8x11mm,5mm,TP		C503	2201-000158	C-CERAMIC,DISC:10nF,+80-20%,3KV,Y5V,BK,-	
C104	2401-000758	C-AL:220NF,20%,50V,GP,TP,5X11MM,5MM		C504	2401-001232	C-AL:4.7uF,20%,250V,GP,TP,10x12.5mm	
C113	2401-000947	C-AL:22uF,20%,35V,GP,TP,5x11mm,-		C506	2401-000430	C-AL:10uF,20%,250V,GP,TP,10x16mm,5m	
C201	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5		C601	2202-000199	C-CERAMIC,MLC-AXIAL:22nF,+80-20%,25V,Y5V	
C202	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5mm		C602	2401-000947	C-AL:22uF,20%,35V,GP,TP,5x11mm,-	
C203	2401-000660	C-AL:2.2uF,20%,50V,GP,TP,5x11mm,5mm		C603	2301-000264	C-FILM,PEF:4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C205	2305-000411	C-FILM,MPEF:470nF,5%,50V,TP,7.3x4.8x5.5m		C604	2401-001323	C-AL:470nF,20%,50V,BP,TP,5x11,5mm	
C206	2305-000412	C-FILM,MPEF:470nF,5%,63V,TP,-,5mm		C610	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm	
C207	2305-000196	C-FILM,MPEF:150nF,5%,63V,TP,-,5mm		C611	2301-000264	C-FILM,PEF:4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C208	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5		C612	2401-001323	C-AL:470nF,20%,50V,BP,TP,5x11,5mm	
C209	2202-000794	C-CERAMIC,MLC-AXIAL:18PF,5%,50V,CH,TP,3.		C613	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
C210	2301-000264	C-FILM,PEF:4.7nF,5%,50V,TP,6.5X5.5X3.0X5		C614	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
C211	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C702	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
C212	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3		C703	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
C213	2201-000257	C-CERAMIC,DISC:16pF,5%,50V,CH,TP,5x3,5		C704	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP	
C214	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C705	2401-001264	C-AL:4.7UF,20%,50V,BP,TP,5X11,5MM	
C215	2301-000201	C-FILM,PEF:2.2nF,5%,50V,TP,7.4x3.9x13mm,		C706	2401-001264	C-AL:4.7UF,20%,50V,BP,TP,5X11,5MM	
C216	2401-001271	C-AL:4.7UF,20%,50V,GP,TP,4X7,5MM		C800	2306-000321	C-FILM,MPPF:470nF,5%,250V,TP,-,22.5mm	
C219	2401-000603	C-AL:1UF,20%,50V,GP,TP,5X11MM,5MM		C801	2401-002213	C-AL:150uF,+30-10%,450V,GP,BK,25x35	
C221	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP		C802	2401-002284	C-AL:33uF,20%,50V,GP,TP,5x11mm,5mm	
C222	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5		C803	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm	
C224	2202-000121	C-CERAMIC,MLC-AXIAL:100pF,10%,50V,Y5P,TP		C804	2201-000139	C-CERAMIC,DISC:100pF,2%,50V,CH,TP,8x3,5	
C226	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm		C805	2303-000163	C-FILM,PPF:2.2nF,5%,800V,TP,15x13x8.5,7.	
C227	2401-001537	C-AL:47UF,20%,25V,GP,TP,6.3X7MM,5MM		C806	2201-000446	C-CERAMIC,DISC:3.3nF,20%,400V,Y5U,TP,18x	
C230	2401-001537	C-AL:47UF,20%,25V,GP,TP,6.3X7MM,5MM		C807	2201-000991	C-CERAMIC,DISC:560pF,10%,2KV,Y5P,TP,13x7	
C231	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5		C808	2401-000262	C-AL:100UF,20%,160V,HR,TP,16X25,7.5	
C232	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5mm		C809	2401-001527	C-AL:47uF,20%,250V,HR,TP,13x25mm,5m	
C234	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C810	2201-000991	C-CERAMIC,DISC:560pF,10%,2KV,Y5P,TP,13x7	
C235	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C811	2401-003141	C-AL:2200UF,20%,25V,WT,TP,13X25,5MM	
C238	2401-001537	C-AL:47UF,20%,25V,GP,TP,6.3X7MM,5MM		C812	2401-001998	C-AL:1000uF,20%,25V,GP,TP,10x20,5mm	
C239	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C813	2305-000382	C-FILM,MPEF:4.7nF,5%,400V,TP,-,5mm	
C240	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C814	2301-000264	C-FILM,PEF:4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C247	2202-000109	C-CERAMIC,MLC-AXIAL:100nF,+80-20%,50V,Y5		C815	2401-000832	C-AL:220uF,20%,25V,GP,TP,8x11.5,5mm	
C248	2309-000138	C-FILM,PE-PPF:100nF,5%,50V,TP,20x16x8.5,		C818	2401-001495	C-AL:47uF,20%,16V,GP,5x11mm,5mm,TP	
C249	2401-000603	C-AL:1UF,20%,50V,GP,TP,5X11MM,5MM		C819	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5mm	
C250	2301-000224	C-FILM,PEF:22nF,5%,50V,TP,7.4x3.9x13mm		C820	2201-000119	C-CERAMIC,DISC:100nF,+80-20%,50V,Y5V,TP,	
C251	2301-000204	C-FILM,PEF:2.7nF,5%,50V,TP,7.4x3.9x13mm,		C901	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5mm	
C252	2301-000264	C-FILM,PEF:4.7nF,5%,50V,TP,6.5X5.5X3.0X5		C902	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
C253	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C904	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
C254	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C905	2401-001333	C-AL:470nF,20%,50V,GP,TP,5x11,5	
C255	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C907	2201-000119	C-CERAMIC,DISC:100nF,+80-20%,50V,Y5V,TP,	
C301	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3		C908	2201-000193	C-CERAMIC,DISC:10pF,0.3pF,50V,CH,TP,5x3,	
C302	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3		C909	2201-000573	C-CERAMIC,DISC:47pF,5%,50V,CH,TP,6.5x3.0	
C303	2401-003028	C-AL:100uF,20%,25V,WT,TP,6.3x11,5mm		C910	2201-000119	C-CERAMIC,DISC:100nF,+80-20%,50V,Y5V,TP,	
C304	2401-002293	C-AL:68UF,20%,100V,WT,TP,10X20,5		C911	2401-000440	C-AL:10UF,20%,25V,GP,TP,5X11MM,5MM	
C306	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5		C912	2201-000234	C-CERAMIC,DISC:150pF,5%,50V,NPO,10x3.5mm	
C307	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5		C913	2301-000108	C-FILM,PEF:1.5nF,5%,50V,TP,6.5x3.0x5.5mm	
C308	2305-000450	C-FILM,MPEF:56NF,5%,100V,-,5MM,TP		C914	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5	
C401	2301-000380	C-FILM,PEF:10nF,5%,50V,TP,6.5x3mm,5mm		C915	2305-000149	C-FILM,MPEF:100nF,5%,100V,TP,12x12.5x6.5	
C402	2201-000599	C-CERAMIC,DISC:560pF,10%,500V,Y5P,TP,7x4		C916	2301-000188	C-FILM,PEF:1nF,5%,100V,TP,10.5x12.5x6.5,	
C403	2201-000556	C-CERAMIC,DISC:470pF,10%,500V,Y5P,TP,7x4		C917	2202-000109	C-CERAMIC,MLC-AXIAL:100nF,+80-20%,50V,Y5	
C404	2401-002288	C-AL:470UF,20%,25V,WT,TP,10X20,5		C919	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
C405	2305-000354	C-FILM,MPEF:330NF,5%,50V,TP,7.3X4.8X5.5M		C920	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5	
C406	2401-000440	C-AL:10UF,20%,25V,GP,TP,5X11MM,5MM		C922	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m	
C407	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m		C923	2202-000109	C-CERAMIC,MLC-AXIAL:100nF,+80-20%,50V,Y5	
C408	2401-001537	C-AL:47UF,20%,25V,GP,TP,6.3X7MM,5MM		C924	2202-000109	C-CERAMIC,MLC-AXIAL:100nF,+80-20%,50V,Y5	
C409	2306-000253	C-FILM,MPPF:7.2nF,5%,1.6KV,TP,28.5x18.5x		C925	2401-001495	C-AL:47uF,20%,16V,GP,5x11mm,5mm,TP	
C410	2201-000406	C-CERAMIC,DISC:270pF,10%,2KV,Y5P,TP,8x6,		C926	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3	
C411	2401-002278	C-AL:22uF,20%,250V,WT,TP,13x21,5		CN01	2202-000127	C-CERAMIC,MLC-AXIAL:10nF,+80-20%,25V,Y5V	
C413	2305-000382	C-FILM,MPEF:4.7nF,5%,400V,TP,-,5mm		AA39-20122A	LEAD-CONNECTOR,ASSY:-,YBNH025-08,YBNH025		
C414	2305-000154	C-FILM,MPEF:100nF,5%,400V,TP,21.5x6.5x11		3711-002643	CONNECTOR-HEADER,BOX,4P,1R,2.5MM,STRAIGH		
C415	2401-000560	C-AL:1uF,20%,160V,GP,TP,6.3*11,5mm		3711-000628	CONNECTOR-HEADER,AUTO,11P,1R,2.5mm,STRAI		
C416	2306-000204	C-FILM,MPPF:430nF,5%,400V,TP,26x20.5x12.		AA27-20002A	COIL-DEGAUSSING,-,20,13.5OHM,35T,L2300,		
C417	2201-000556	C-CERAMIC,DISC:470pF,10%,500V,Y5P,TP,7x4		2503-000156	C-NETWORK:100pF,4,20%,50V		
C418	2401-002293	C-AL:68UF,20%,100V,WT,TP,10X20,5		D201	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	
				D204	0402-000216	DIODE-RECTIFIER,ERC24-06,600V,1.0A,DO-20	
				D205	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	
				D209	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	
				D210	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	
				D211	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	
				D213	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T	

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
D215	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		L304	2701-000116	INDUCTOR-AXIAL:10uH,10%,4.2x9.8mm	
D216	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		L305	2701-000116	INDUCTOR-AXIAL:10uH,10%,4.2x9.8mm	
D217	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		L401	AA27-30001B	COIL-LINEARITY:-,195UH,QIC1010,PIO,4,4.5	
D401	0402-000129	DIODE-RECTIFIER:1N4003,200V,1A,DO-41		L402	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-	
D402	0402-000129	DIODE-RECTIFIER:1N4003,200V,1A,DO-41		L601	2701-000197	INDUCTOR-AXIAL:5.6uH,10%,2.5x3.4mm	
D403	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L702	AA27-10003X	COIL-CHOKE:-,4.7uH,K,40,190mA,TP,AL02TB4	
D404	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,T		L703	AA27-10003X	COIL-CHOKE:-,4.7uH,K,40,190mA,TP,AL02TB4	
D405	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L704	AA27-10003X	COIL-CHOKE:-,4.7uH,K,40,190mA,TP,AL02TB4	
D406	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L705	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-	
D501	0402-000216	DIODE-RECTIFIER:ERC24-06,600V,1.0A,DO-20		L706	AA27-10003X	COIL-CHOKE:-,4.7uH,K,40,190mA,TP,AL02TB4	
D502	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L801	AA29-30001G	FILTER-LINE:-,27MH,0.6A,-,	
D503	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L804	3301-000287	CORE-FERRITE BEAD:AA,3.5x1x6mm,1500,2400	
D504	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		L805	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-	
D701	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,3.5x5,TP,-	
D800	1405-000152	VARIATOR:560V,2500A,14x8.5mm,TP		L808	1203-001006	IC-VOLTAGE REGULATOR:78R05,TO-220F,4P,-	
D801	0402-000102	DIODE-BRIDGE:D2SB60,600V,1.5A,-		L809	AA27-10002Y	COIL-CHOKE:-,100UH,K,10,700MA,T,100UH-K(
D802	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-		L810	AA27-10002Y	COIL-CHOKE:-,100UH,K,10,700MA,T,100UH-K(
D803	0402-000430	DIODE-RECTIFIER:FML-G02S,200V,3.0A,TO-22		L902	2701-000189	INDUCTOR-AXIAL:470nH,10%,2.5x3.4mm	
D804	0402-000213	DIODE-RECTIFIER:ERB12-06,600V,1.0A,DO-41		L903	2701-000136	INDUCTOR-AXIAL:18uH,10%,2.5x3.4mm	
D809	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		LD901	AA96-30001B	ASSY-LED,GUIDE:-,AA61-50055A,DL-G5RGA,-	
D810	0402-001105	DIODE-RECTIFIER:ERB43-04SV1,400V,1.0A,-,		NT801	1404-000187	THERMISTOR-NTC:4.7ohm,15%,2800K,27.2mW/C	
D901	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		P801	1404-000180	THERMISTOR-PTC:14ohm,20%,-,290V,25A,-,ST	
D903	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		PC801	0604-001038	PHOTO-COUPLER:TR,130-260%,200mW,DIP-4,ST	
D905	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		Q201	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
D906	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		Q202	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
D907	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		Q203	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
D908	0401-000005	DIODE-SWITCHING:1N4148,75V,300mA,DO-35,T		Q204	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ201	0403-000295	DIODE-ZENER:MTZ5.1B,5.1V,4.94-5.20V,500m		Q206	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ203	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q251	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ207	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		△ Q401	0502-000295	TR-POWER:KSD5072YD,NPN,1500V,800V,5A,60	
DZ208	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		△ Q402	0501-000369	TR-SMALL SIGNAL:KSC2331-Y,NPN,1W,TO-92L,-	
DZ301	0403-000660	DIODE-ZENER:MTZ22A,22V,20.15-21.2V,500mW		Q701	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ302	0403-001039	DIODE-ZENER:MA2560,56V,52-60V,1W,DO-41,T		Q703	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
DZ401	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q901	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ501	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q902	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ502	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q903	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,T	
DZ503	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q904	0504-000123	TR-DIGITAL:KSR1010,NPN,300mW,10K,TO-92,T	
DZ504	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q905	0504-000123	TR-DIGITAL:KSR1010,NPN,300mW,10K,TO-92,T	
DZ701	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q906	0504-000123	TR-DIGITAL:KSR1010,NPN,300mW,10K,TO-92,T	
DZ702	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q907	0504-000125	TR-DIGITAL:KSR1012,NPN,300mW,47K,TO-92,T	
DZ703	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		Q908	0504-000123	TR-DIGITAL:KSR1010,NPN,300mW,10K,TO-92,T	
DZ704	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		R200	2001-000780	R-CARBON:470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ705	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		R201	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ802	0403-000297	DIODE-ZENER:MTZ6.2B,6.2V,5.96-6.27V,500m		R202	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ803	1203-001217	IC-POS.ADJUST REG.:431,TO-92,3P,4.58MIL		R203	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ804	0403-000294	DIODE-ZENER:MTZ4.7B,4.75-4.80V,500mW,DO-		R204	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ805	0403-000692	DIODE-ZENER:R2KN,150-170V,-,150V,TP-		R205	2001-000793	R-CARBON:47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ807	0403-000297	DIODE-ZENER:MTZ6.2B,6.2V,5.96-6.27V,500m		R207	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ901	0403-000563	DIODE-ZENER:MTZ9.1B,9.1V,8.57-9.01V,500m		R208	2001-000832	R-CARBON:510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ902	0403-000295	DIODE-ZENER:MTZ5.1B,5.1V,4.94-5.20V,500m		R209	2001-000016	R-CARBON(S):1ohm,5%,1/2W,AA,TP,2.4x6.4mm	
DZ903	1203-000451	IC-VOLTAGE REGULATOR:33,TO-92,3P,-,PLAST		R210	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ905	0403-000296	DIODE-ZENER:MTZ5.6B,5.6V,5.45-5.73V,500m		R211	2001-000331	R-CARBON:12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
DZ907	0403-000296	DIODE-ZENER:MTZ5.6B,5.6V,5.45-5.73V,500m		R212	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ F801	3601-000261	FUSE-FERRULE:250V,3.15A,TIME LAG,GLASS,5		R213	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
F801A	3602-000114	FUSE-HOLDER:-,30mohm		R214	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
F801B	3602-000114	FUSE-HOLDER:-,30mohm		R215	2004-001995	R-METAL:9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
△ F802	3601-000120	FUSE-FERRULE:125V,2.5A,QUICK ACTING,GLAS		R216	2001-000490	R-CARBON:200ohm,5%,1/8W,AA,TP,1.8x3.2mm	
GT801	AA39-20010H	LEAD-CONNECTOR,ASSY:-,YFH800-01,S,1P,300		R217	2001-001411	R-CARBON:5.6Mohm,5%,1/8W,AA,TP,1.7x3.2m	
△ HC101	AA13-20004A	IC-HYBRID:-,PAP102T,SIP,6P,PRE-AMP,TP		R218	2001-000591	R-CARBON:3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
△ IC201	1204-001191	IC-PAL/NTSC PROCESS:TDA8374A(N3),DIP,56P		R219	2001-000008	R-CARBON:15Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC301	1204-000441	IC-IF CIRCUIT:TDA8356,SIP,9P,-,PLASTIC,4		R220	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC501	1201-001159	IC-VIDEO AMP:6107,ZIP,9P,300MIL,SINGLE,-		R221	2001-000660	R-CARBON:33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC602	1201-000537	IC-AUDIO AMP:7057,ZIP,13P,-,DUAL,40DB,PL		R222	2001-000397	R-CARBON:180Kohm,5%,1/8W,AA,TP,1.8x3.2m	
△ IC801	1203-001218	IC-PWM CONTROLLER:2S0680,TO-3,5P,32.5MIL		R223	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC802	1203-000644	IC-POS.FIXED REG.:7630,SIP,10P,-,PLASTI		R224	2001-000563	R-CARBON:27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC805	1203-000243	IC-POS.FIXED REG.:7812A,TO-220,3P,-,PLA		R225	2001-000857	R-CARBON:560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC901	AA13-30017U	IC-MCU:-,Z8933212PSC-R3474,16BIT,SDIP		R226	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC902	1103-000156	IC-EEPROM:24C04,512X8BIT,DIP,8P,300MIL,1		R227	2004-001234	R-METAL:75Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ IC903	1203-000515	IC-VOL. DETECTOR:7042,TO-92,3P,177MIL,PL		R228	2001-000832	R-CARBON:510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
△ JS701	3722-000183	JACK-SCART:21P,4mm,SN,BLK,NO		R230	2001-000793	R-CARBON:47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L101	2701-000171	INDUCTOR-AXIAL:330nH,10%,2.5x3.4mm		R231	2001-000563	R-CARBON:27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
L102	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		R232	2001-000273	R-CARBON:100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
L103	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		R234	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L202	2701-000197	INDUCTOR-AXIAL:5.6uH,10%,2.5x3.4mm		R235	2004-001089	R-METAL:560Kohm,5%,1/8W,AA,TP,1.8x3.2m	
L206	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		R236	2003-000634	R-METAL OXIDE(S):3.9Kohm,5%,1W,AA,TP,3.3	
L301	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		R237	2001-000793	R-CARBON:47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
L302	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		R240	2001-000832	R-CARBON:510ohm,5%,1/8W,AA,TP,1.8x3.2mm	

Electric Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
R241	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R903	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R242	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R904	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R250	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R905	2001-000241	R-CARBON:1.5Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R251	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R906	2001-000472	R-CARBON:2.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R252	2004-001914	R-METAL:39Kohm,2%,1/8W,AA,TP,1.8x3.5mm		R907	2004-001291	R-METAL:820ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R253	2001-000319	R-CARBON:120Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R908	2001-000214	R-CARBON;1.1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R254	2001-000755	R-CARBON:430Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R909	2001-000449	R-CARBON:2.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R255	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R910	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R256	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R912	2004-001193	R-METAL:680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R260	2001-000347	R-CARBON:13Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R913	2004-001193	R-METAL:680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R301	2004-001983	R-METAL:2.49Kohm,1%,1/2W,AA,TP,2.4x6.4		R916	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R302	2008-001033	R-FUSIBLE(S):10ohm,5%,2W,AF,TP,3.9x10mm		R917	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R303	2001-000273	R-CARBON:100Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R918	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R305	2004-001370	R-METAL(S):1.3ohm,1%,1/2W,AA,TP,2.4x6.4mm		R919	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R306	2008-000254	R-FUSIBLE(S):0.68ohm,5%,2W,AF,TP,3.9x10mm		R920	2004-001104	R-METAL:56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R307	2003-001043	R-METAL OXIDE(S):510ohm,5%,1W,AF,TP,2.5x		R921	2001-001062	R-CARBON(S):10Mohm,5%,1/2W,AA,TP,2.4x6.4	
R401	2001-001103	R-CARBON(S):20Kohm,5%,1/2W,AA,TP,2.4x6.4		R922	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R403	2001-001114	R-CARBON(S):270ohm,5%,1/2W,AA,TP,2.4x6.4		R923	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R404	2008-001033	R-FUSIBLE(S):10ohm,5%,2W,AF,TP,3.9x10mm		R924	2001-000449	R-CARBON:2.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R405	2001-001410	R-CARBON(S):43ohm,5%,1/2W,AA,TP,2.4x6.4mm		R925	2001-000449	R-CARBON:2.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R406	2001-001410	R-CARBON(S):43ohm,5%,1/2W,AA,TP,2.4x6.4mm		R926	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R407	2001-003019	R-CARBON(S):0.39ohm,10%,1/2W,AA,TP,2.4x6.4		R927	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R408	2001-000022	R-CARBON(S):33ohm,5%,1/2W,AA,TP,2.4x6.4mm		R928	2001-000066	R-CARBON(S):10Kohm,5%,1/2W,AA,TP,2.4x6.4	
R409	2008-000204	R-FUSIBLE(S):0.22ohm,10%,1/2W,AF,TP,2.5x		R929	2004-000253	R-METAL:11Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R410	2004-001408	R-METAL(S):91Kohm,1%,1/2W,AA,TP,2.4x6.4mm		R930	2004-000218	R-METAL:10Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R411	2004-001408	R-METAL(S):91Kohm,1%,1/2W,AA,TP,2.4x6.4mm		R931	2004-000218	R-METAL:10Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R412	2003-001035	R-METAL OXIDE(S):27ohm,0.05,2W,AF,TP,3.9		R934	2001-000449	R-CARBON:2.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R413	2003-000784	R-METAL OXIDE(S):7.5Kohm,5%,2W,AF,TP,4x1		R935	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R414	2003-000540	R-METAL OXIDE(S):1Kohm,5%,2W,AF,TP,4x12mm		R936	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R415	2008-000206	R-FUSIBLE(S):1ohm,5%,1/2W,AF,TP,2.5x6.5mm		R937	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R416	2008-000277	R-FUSIBLE:68ohm,5%,1/2W,AA,TP,4.7x11mm		R938	2001-000472	R-CARBON:2.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R417	2008-000256	R-FUSIBLE(S):1.5ohm,5%,2W,AA,TP,3.9x10mm		R940	2004-001234	R-METAL:75Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R501H	2002-001008	R-COMPOSITION:1.8Kohm,5%,1/2W,AA,TP,3.7x		R944	2004-001201	R-METAL:68Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R502H	2002-001008	R-COMPOSITION:1.8Kohm,5%,1/2W,AA,TP,3.7x		R945	2001-001062	R-CARBON(S):10Mohm,5%,1/2W,AA,TP,2.4x6.4	
R503	2002-001008	R-COMPOSITION:1.8Kohm,5%,1/2W,AA,TP,3.7x		R946	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R504	2001-001062	R-CARBON(S):10Mohm,5%,1/2W,AA,TP,2.4x6.4		R947	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R505	2008-001011	R-FUSIBLE(S):0.18ohm,10%,2W,AF,TP,3.9x10		R948	2001-000241	R-CARBON:1.5Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R510	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm		R951	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R511	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm		R952	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R512	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm		R954	2001-000006	R-CARBON:2.4Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R603	2001-000241	R-CARBON:1.5Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R955	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R604	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R956	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R605	2001-000522	R-CARBON:22Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R957	2001-000832	R-CARBON:510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R606	2001-000605	R-CARBON:3.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R960	2001-000290	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R610	2001-000522	R-CARBON:22Kohm,5%,1/8W,AA,TP,1.8x3.2mm		R962	2001-000273	R-CARBON:10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R611	2001-000605	R-CARBON:3.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm		RL901	AA59-60001U	MODULE-REMOCON;-ORC-50VF,38KHZ,940NM,ME	
R701	2001-000281	R-CARBON:100ohm,5%,1/8W,AA,TP,1.8x3.2mm		RW701	2011-001059	R-NETWORK:33K/24K/75/75/75OHM,5%,1/8W,X,	
R703	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		RW702	2011-001058	R-NETWORK:75/75/1K/75OHM,5%,1/8W,X,SIP5	
R705	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm		RX801	2002-000328	R-COMPOSITION:3.3Mohm,10%,1/2W,AA,TP,3.5	
R706	2001-000221	R-CARBON:1.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm		SFN02	2904-001063	FILTER-SAW AV:38.9MHz,SIP5K,TP,17dB,PAL-	
R713	2004-001027	R-METAL:5.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm		SW801	3403-000179	SWITCH-PUSH:250V,5A,DPST,-JPW-2104B	
R714	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm		SW901	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
R715	2004-001027	R-METAL:5.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm		SW902	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
R717	2004-001027	R-METAL:5.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm		SW903	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
R801	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x		SW904	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
R802	2003-000994	R-METAL OXIDE(S):33Kohm,5%,2W,AF,TP,3.9x		SW905	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SP	
R803	2004-001373	R-METAL(S):100Kohm,1%,1/2W,AA,TP,2.4x6.4		T201	AA26-10005G	TRANS-IF,-7MG,VIF,150NH,-,38.8MHz,ST	
R805	2004-001967	R-METAL(S):68Kohm,1%,1/2W,AA,TP,6.5x2.5mm		T401	AA26-50001B	HORIZ.DRIVE,-,7.1MH,102UH,10-20UH,YL081,	
R806	2002-000328	R-COMPOSITION:3.3Mohm,10%,1/2W,AA,TP,3.5		T444	AA26-30001Y	TRANS-FLYBACK,-,FSV-20A001,20,125V	
R807	2002-000328	R-COMPOSITION:3.3Mohm,10%,1/2W,AA,TP,3.5		T801	AA26-20006U	TRANS-SWITCHING,-,90-260V,125V/12.5V,EN,	
R810	2003-001090	R-METAL OXIDE(S):10Kohm,5%,2W,AF,TP,4x12		TU01	AA40-10003N	TUNER-V/S,-,TECC0985VD28A,PAL-B/G,TR,105	
R811	2003-000784	R-METAL OXIDE(S):7.5Kohm,5%,2W,AF,TP,4x1		V999	3704-000110	SOCKET-CRT:14P,29.1,25.5,SN,ISHS09S/BK	
R812	2008-000299	R-FUSIBLE(S):47ohm,5%,2W,AF,TP,3.9x10mm		X202	2801-000226	CRYSTAL-UNIT:3.579545MHz,20ppm,28-AAM,15	
R813	2008-000299	R-FUSIBLE(S):47ohm,5%,2W,AF,TP,3.9x10mm		X203	2801-000276	CRYSTAL-UNIT:4.433619MHz,40PPM,28-AAM	
R814	2008-000189	R-FUSIBLE:0.47OHM,10%,2W,AA,TP,6X15.5MM		X901	2801-003224	CRYSTAL-UNIT:32.768KHZ,20PPM,28-AAY,12.5	
R815	2008-000189	R-FUSIBLE:0.47OHM,10%,2W,AA,TP,6X15.5MM		Z201	2903-000199	FILTER-CERAMIC,TR,6.5MHz,70KHz,-,TP-	
R816	2004-004089	R-METAL:123KOHM,1%,1/2W,AA,TP,2.5X6.5MM		Z202	2903-000181	FILTER-CERAMIC,TR,5.5MHz,-,TP,TPS5.5	
R817	2004-001983	R-METAL:2.49Kohm,1%,1/2W,AA,TP,2.4x6.4		Z204	2903-000184	FILTER-CERAMIC,BP,5.5MHz,+60KHz,6dB,-,T	
R818	2001-001050	R-CARBON(S):1.5Kohm,5%,1/2W,AA,TP,2.4x6.4		Z205	2903-000200	FILTER-CERAMIC,BP,6.5MHz,+70KHz,6dB,-,T	
R819	2001-001088	R-CARBON(S):1Kohm,5%,1/2W,AA,TP,2.4x6.4mm		Z206	2903-000184	FILTER-CERAMIC,BP,5.5MHz,+60KHz,6dB,-,T	
R820	2008-000299	R-FUSIBLE(S):47ohm,5%,2W,AF,TP,3.9x10mm					
R821	2008-000264	R-FUSIBLE(S):1ohm,5%,1W,AF,TP,3.9x10mm					
R822	2001-001150	R-CARBON(S):470Kohm,5%,1/2W,AA,TP,2.4x6.4					
R823	2001-001150	R-CARBON(S):470Kohm,5%,1/2W,AA,TP,2.4x6.4					
R824	2009-000022	R-METAL PLATE:0.47ohm,10%,5W,CL,TP,5x14mm					
R901	2001-000793	R-CARBON:47ohm,5%,1/8W,AA,TP,1.8x3.2mm					
R902	2001-000734	R-CARBON:4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm					

ASSY-PCB,SECAM

* AA95-90017S ASSY-PCB,SECAM;-,-,SCT13B,CS,CK,-,-

C217 2202-000796 C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
C218	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3					
C220	2401-001495	C-AL:47uF,20%,16V,GP,5x11mm,5mm,TP					
C241	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m					
C242	2305-000288	C-FILM,MPEF:220nF,5%,50V,TP,7.3x4.8x5.5m					
C243	2401-001495	C-AL:47uF,20%,16V,GP,5x11mm,5mm,TP					
C244	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0m					
C245	2202-000109	C-CERAMIC,MLC-AXIAL:100nF,+80-20%,50V,Y5					
CN202	3711-002707	CONNECTOR-HEADER:NOWALL,9P,1R,2.5mm,ANGL					
DZ202	0403-000296	DIODE-ZENER:MTZ5.6B,5.6V,5.45-5.73V,500m					
IC202	1209-000214	IC-DELAY LINE:TDA4665,DIP,16P,300MIL,PLA					
IC203	1204-000524	IC-DECODER:TDA8395P/N1,DIP,16P,-,PLASTIC					
L201	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm					
R233	2001-001077	R-CARBON(S):150ohm,5%,1/2W,AA,TP,2.4x6.4					

ASSY-A/V,FRONT

*	AA95-90023	MASSY-A/V,FRONT:-,5066,5366,SCT13B,PAL,-,	
CE01	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5mm	
CE03	2401-001264	C-AL:4.7UF,20%,50V,BP,TP,5X11,5MM	
CE06	2202-000862	C-CERAMIC,MLC-AXIAL:390pF,10%,50V,Y5P,TP	
CE07	2202-000222	C-CERAMIC,MLC-AXIAL:3.3nF,20%,16V,Y5P,TP	
CN702	AA39-20461C	LEAD CONNECTOR-ASSY:-,YBNH250-11,67096-0	
JA702	3722-000506	JACK-RCA:2P,3.6MM,-,AG	
JE601	3722-000143	JACK-PHONE:1P(VER),3.4mm,AG,BLK,NO	
QE01	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,T	
RE01	2001-001153	R-CARBON(S):47ohm,5%,1/2W,AA,TP,2.4x6.4m	
RE02	2001-001153	R-CARBON(S):47ohm,5%,1/2W,AA,TP,2.4x6.4m	
RE03	2004-001201	R-METAL:68Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RE04	2001-000429	R-CARBON:1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RE05	2001-000009	R-CARBON:20Kohm,5%,1/8W,AA,TP,1.8x3.2mm	

ASSY-POWER,CORD

	AA39-10001G	POWER-CORD:-,KKP-419C,KLCE-2F,2.286M,HOU	
	AA61-20070A	HOLDER-CORD:-,PP,VO,BLK,KE-0002	



REMOCON

*	AA59-10081F	REMOCON:-,TM51,SZM139,27,L/GRY,SS	
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ASSY-HOLDER,SPK

*	AA91-60249A	ASSY-HOLDER,SPK:-,PP,HB,BLK,8R6W,5066	
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ASSY-CRT

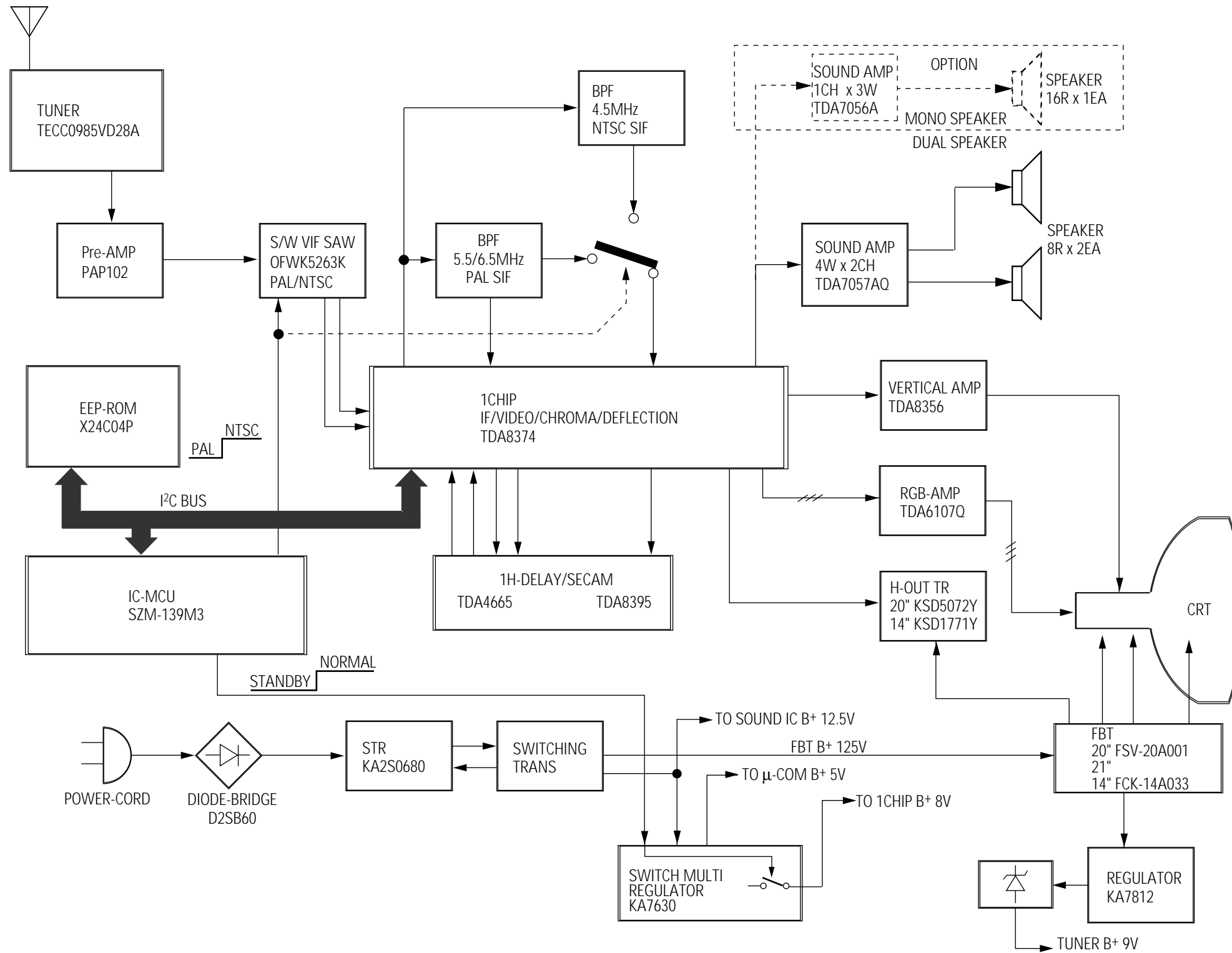
	AA03-10003L	CRT-COLOR:-,A48KRD82X(U),+380MG,20,90DE	
	AA27-50001S	DEFLECTION-YOKE:-,DSE-1992LL(1),20/A48K	
	AA27-60001K	MAGNET-CONVERGENCE:-,NY-291,29.1MM	
	AA63-60028A	SPACER-DY;NEOPRENE,-,BLK,VO W12,-,-	

ASSY-ACCESSORY

	AA26-90001C	TRANS-MATCHING:-,300ohm/75ohm,PAL,40-890	
	AA42-10001V	ANT-ROD:-,3S,620mm,BRN,UL/CSA	
	AA68-11073A	MANUAL-USERS:SCT13B,W/P 100(G),B5,RUS,-,	

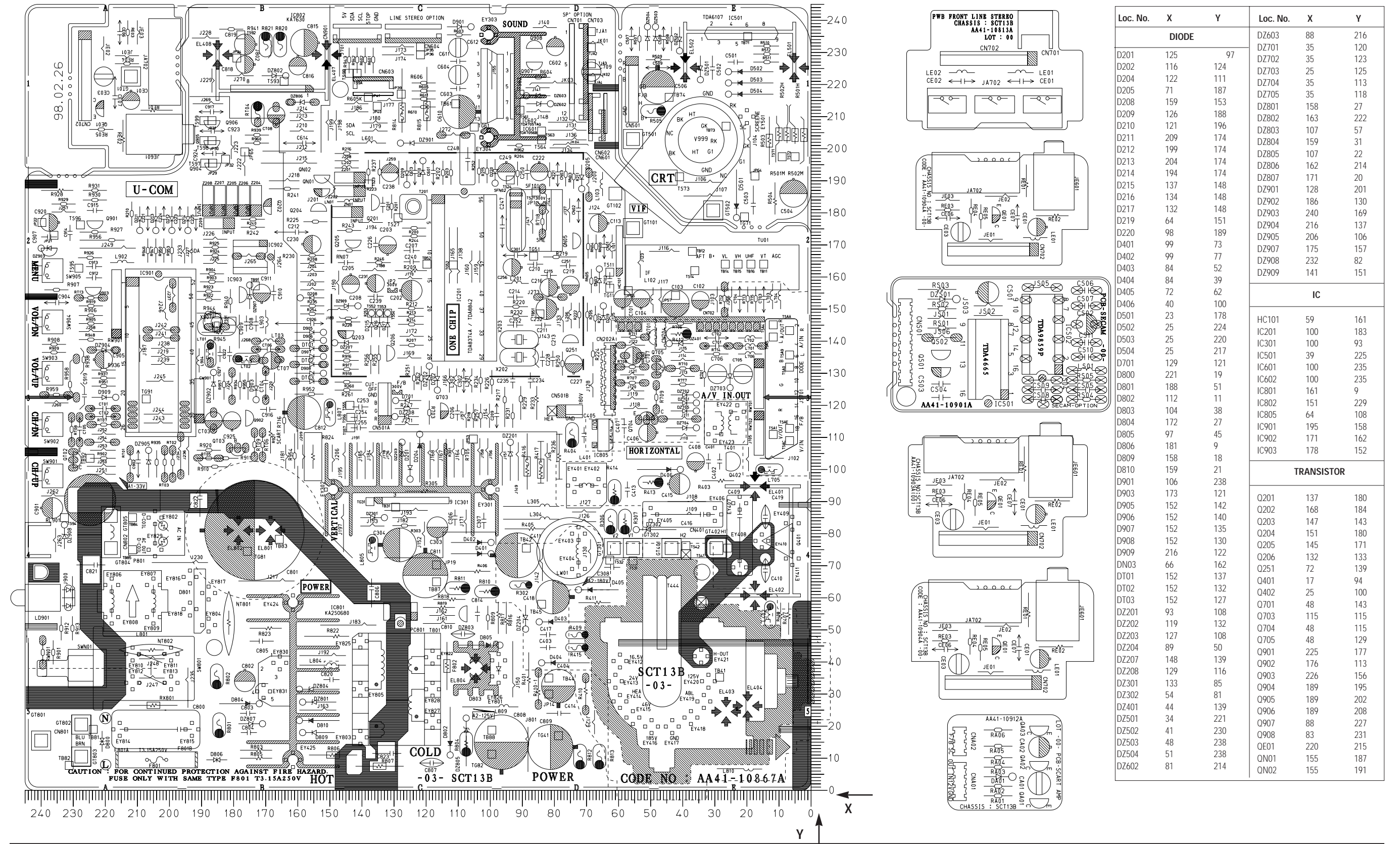
8. Block Diagram

8-1 SCT13B



9. PCB Layout

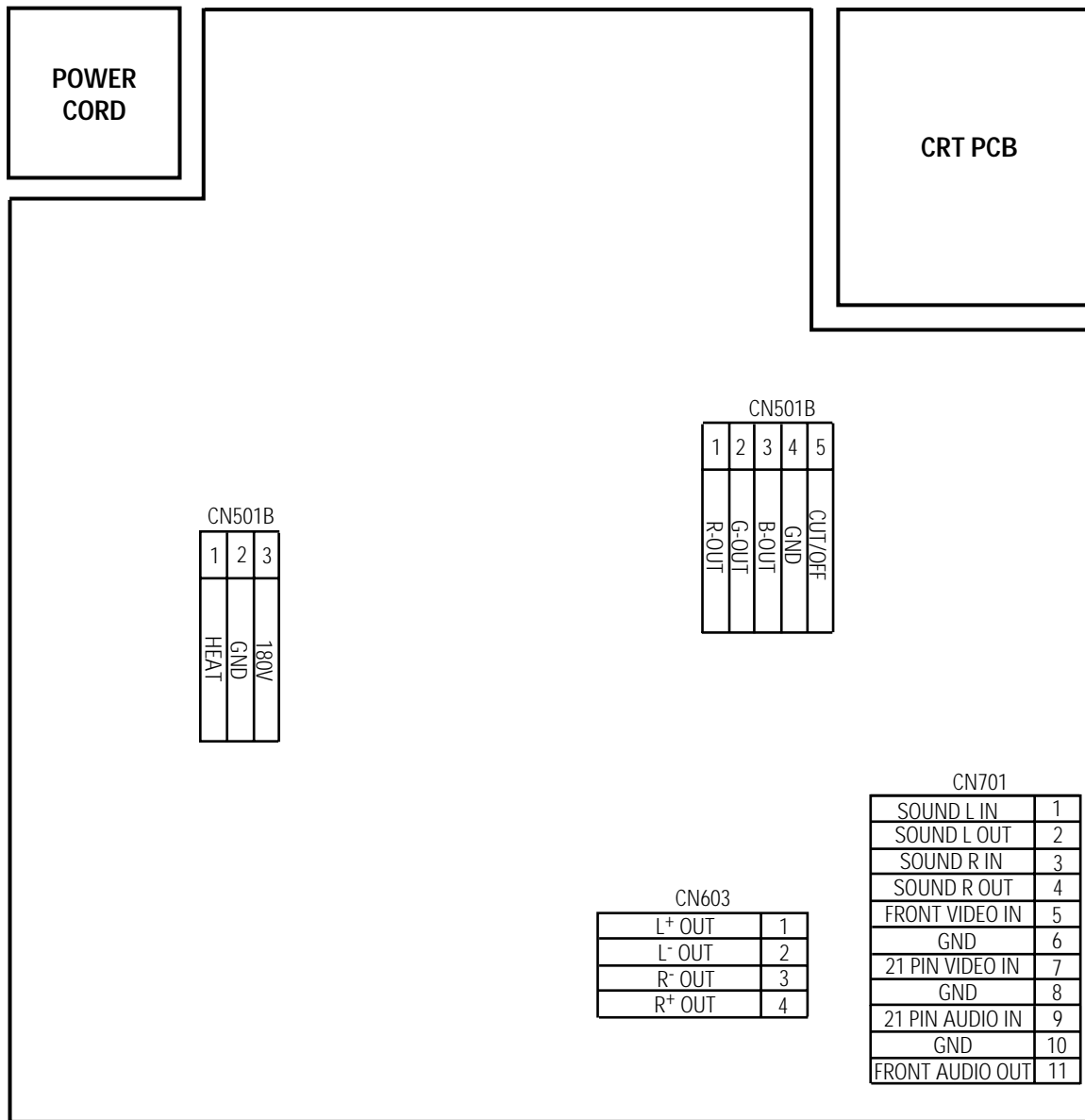
9-1 PCB MAIN



Loc. No.	X	Y	Loc. No.	X	Y
DIODE					
D201	125	97	DZ603	88	216
D202	116	124	DZ701	35	120
D204	122	111	DZ702	35	123
D205	71	187	DZ703	25	125
D208	159	153	DZ704	35	113
D209	126	188	DZ705	35	118
D210	121	196	DZ801	158	27
D211	209	174	DZ802	163	222
D212	199	174	DZ803	107	57
D213	204	174	DZ804	159	31
D214	194	174	DZ805	107	22
D215	137	148	DZ806	162	214
D216	134	148	DZ807	171	20
D217	132	148	DZ808	162	210
D219	64	151	DZ809	107	22
D220	98	189	DZ902	186	130
D401	99	73	DZ903	240	169
D402	99	77	DZ904	216	137
D403	84	52	DZ905	206	106
D404	84	39	DZ907	175	157
D405	72	62	DZ908	232	82
D406	40	100	DZ909	141	151
IC					
D501	23	178	HC101	59	161
D502	25	224	IC201	100	183
D503	25	220	IC301	100	93
D504	25	217	IC501	39	225
D701	129	121	IC601	100	235
D800	221	19	IC602	100	235
D801	188	51	IC801	161	9
D802	112	11	IC802	151	229
D803	104	38	IC805	64	108
D804	172	27	IC901	195	158
D805	97	45	IC902	171	162
D806	181	9	IC903	178	152
D809	158	18	TRANSISTOR		
D901	106	238	Q201	137	180
D903	173	121	Q202	168	184
D905	152	142	Q203	147	143
D906	152	140	Q204	151	180
D907	152	135	Q205	145	171
D908	152	130	Q206	132	133
D909	216	122	Q251	72	139
DN03	66	162	Q401	17	94
DT01	152	137	Q402	25	100
DT02	152	132	Q701	48	143
DT03	152	127	Q703	115	115
DZ201	93	108	Q704	48	115
DZ202	119	132	Q705	48	129
DZ203	127	108	Q901	225	177
DZ204	89	50	Q902	176	113
DZ207	148	139	Q903	226	156
DZ208	129	116	Q904	189	195
DZ301	133	85	Q905	189	202
DZ302	54	81	Q906	189	208
DZ401	44	139	Q907	88	227
DZ501	34	221	Q908	83	231
DZ502	41	230	QE01	220	215
DZ503	48	238	ON01	155	187
DZ504	51	238	ON02	155	191

10. Wiring Diagram

10-1 SCT13B



MEMO

11. Schematic Diagrams

11-1 TTX Micom

MICOM OPTION

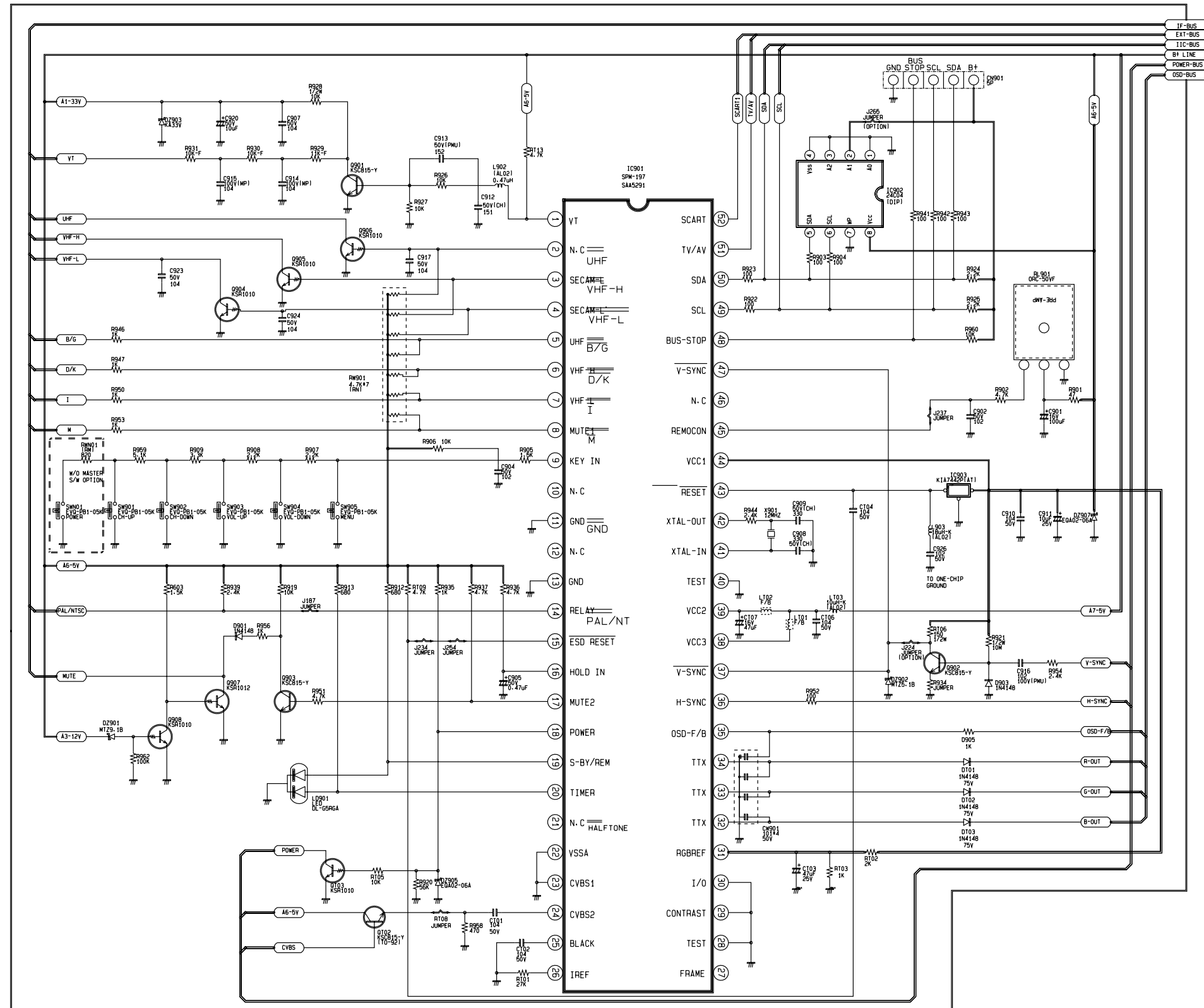
MICOM	NON TTX u-COM	TTX u-COM		
LOC	CODE-NO	SPEC	CODE-NO	SPEC
C908	2201-000193	C-C + 10PF 50V CH	2201-000980	C-C + 30PF 50V CH
C909	2201-000573	C-C + 47PF 50V CH	2201-000980	C-C + 30PF 50V CH
C919	2202-000796	C-AXIAL 1.1NF 50V	DELETE	DELETE
C922	2305-000665	C-FILM 104 63V	DELETE	DELETE
C925	2401-001495	C-AL 47UF 16V	DELETE	DELETE
CT01	DELETE	DELETE	2202-000109	C-AXIAL 104 50V
CT02	DELETE	DELETE	2202-000109	C-AXIAL 104 50V
CT03	DELETE	DELETE	2401-001495	C-AL 47UF 16V
CT04	DELETE	DELETE	2202-000109	C-AXIAL 104 50V
CT06	DELETE	DELETE	2202-000109	C-AXIAL 104 50V
CT07	DELETE	DELETE	2401-001495	C-AL 47UF 16V
D905	0401-000005	DIODE 1N4148	2001-000429	R-CARBON 1K 1/8W
D906	0401-000005	DIODE 1N4148	DELETE	DELETE
D907	0401-000005	DIODE 1N4148	DELETE	DELETE
D908	0401-000005	DIODE 1N4148	DELETE	DELETE
IC901	-	SPM193	-	SPM-197
IC903	1203-000515	K1A7042P-AT	1203-000641	K1A7442P-AT
J111	DELETE	DELETE	3812-000219	JUMPER
J184	3812-000219	JUMPER	2001-000857	R-CARBON 560 1/8W
J185	3812-000219	JUMPER	2001-000857	R-CARBON 560 1/8W
J191	3812-000219	JUMPER	2001-000857	R-CARBON 560 1/8W
J234	DELETE	DELETE	3812-000219	JUMPER
J237	DELETE	DELETE	3812-000219	JUMPER
J239	3812-000219	JUMPER	DELETE	DELETE
J246	3812-000219	JUMPER	DELETE	DELETE
J254	DELETE	DELETE	3812-000219	JUMPER
J264	3812-000219	JUMPER	DELETE	DELETE
J265	DELETE	DELETE	3812-000219	JUMPER
L101	DELETE	DELETE	2901-000297	FERRITE-BEAD
L102	DELETE	DELETE	2901-000297	FERRITE-BEAD
L103	DELETE	DELETE	2701-000114	COIL AL02 10uH
D104	DELETE	DELETE	0501-000293	KS3939
Q102	DELETE	DELETE	0501-000299	KS3915-Y
Q103	DELETE	DELETE	0504-000123	KS3910
R905	2001-000472	R-CARBON 2.7K 1/8W	2001-000290	R-CARBON 10K 1/8W
R907	2004-001291	R-CARBON 820 1/8W	2001-000449	R-CARBON 2.2K 1/8W
R908	2001-000214	R-CARBON 1.1K 1/8W	2001-000449	R-CARBON 2.2K 1/8W
R909	2001-000449	R-CARBON 2.2K 1/8W	2001-000591	R-CARBON 3.3K 1/8W
R910	2001-000290	R-CARBON 10K 1/8W	DELETE	DELETE
R916	2001-000281	R-CA 1/8T 68K-J	DELETE	DELETE
R917	2001-000281	R-CA 1/8T 10K-J	DELETE	DELETE
R918	2001-000281	R-CA 1/8T 510-J	DELETE	DELETE
R934	2001-000449	R-CARBON 2.2K 1/8W	3812-000212	JUMPER
R938	2001-000472	R-CARBON 2.7K 1/8W	DELETE	DELETE
R940	2001-001234	R-CARBON 75K 1/8W	DELETE	DELETE
R944	2004-001291	R-CARB 68K 1/8W	2001-000005	R-CARB 2.4K 1/8W
R945	2001-001062	R-CARB 10M 1/8W	DELETE	DELETE
R948	2001-000241	R-CARB 1.1K 1/8W	DELETE	DELETE
R955	2001-000429	R-CARB 1.1K 1/8W	DELETE	DELETE
R957	2001-000832	R-CARB 1510 1/8W	DELETE	DELETE
R958	DELETE	DELETE	2001-000793	R-CARB 470 1/8W
R959	DELETE	DELETE	2001-000800	R-CARB 5.1K 1/8W
R101	DELETE	DELETE	2001-000563	R-CARB 27K 1/8W
R102	DELETE	DELETE	2001-000577	R-CARB 2K 1/8W
R103	DELETE	DELETE	2001-000429	R-CARB 1K 1/8W
R104	DELETE	DELETE	2008-001062	R-FUSIBLE 39 2W
R105	DELETE	DELETE	2001-000290	R-CARB 10K 1/8W
R106	3812-000219	JUMPER	2001-000362	R-CARB 150 1/8W
R108	DELETE	DELETE	3812-000219	JUMPER
R109	DELETE	DELETE	2001-000734	R-CARB 4.7K 1/8W
R113	DELETE	DELETE	2001-000734	R-CARB 4.7K 1/8W
DT01	DELETE	DELETE	0401-000005	DIODE 1N4148
DT02	DELETE	DELETE	0401-000005	DIODE 1N4148
DT03	DELETE	DELETE	0401-000005	DIODE 1N4148
X901	2801-003224	32.768KHz	2801-001476	12MHz
R920	2008-000299	R-FUSIBLE 47 2W	2008-001062	R-FUSIBLE 2W 39
R921	2008-000264	R-FUSIBLE 1 1W	DELETE	DELETE
J902	DELETE	DELETE	3812-000219	JUMPER
D7805	DELETE	DELETE	2003-000705	R-METAL 47K 2W AA
D7806	DELETE	DELETE	0403-000295	DIODE M75.1B
R906	2001-0001410	R-CARBON 43 1/2W	2001-001126	R-CARB 300 1/2W

SYSTEM OPTION

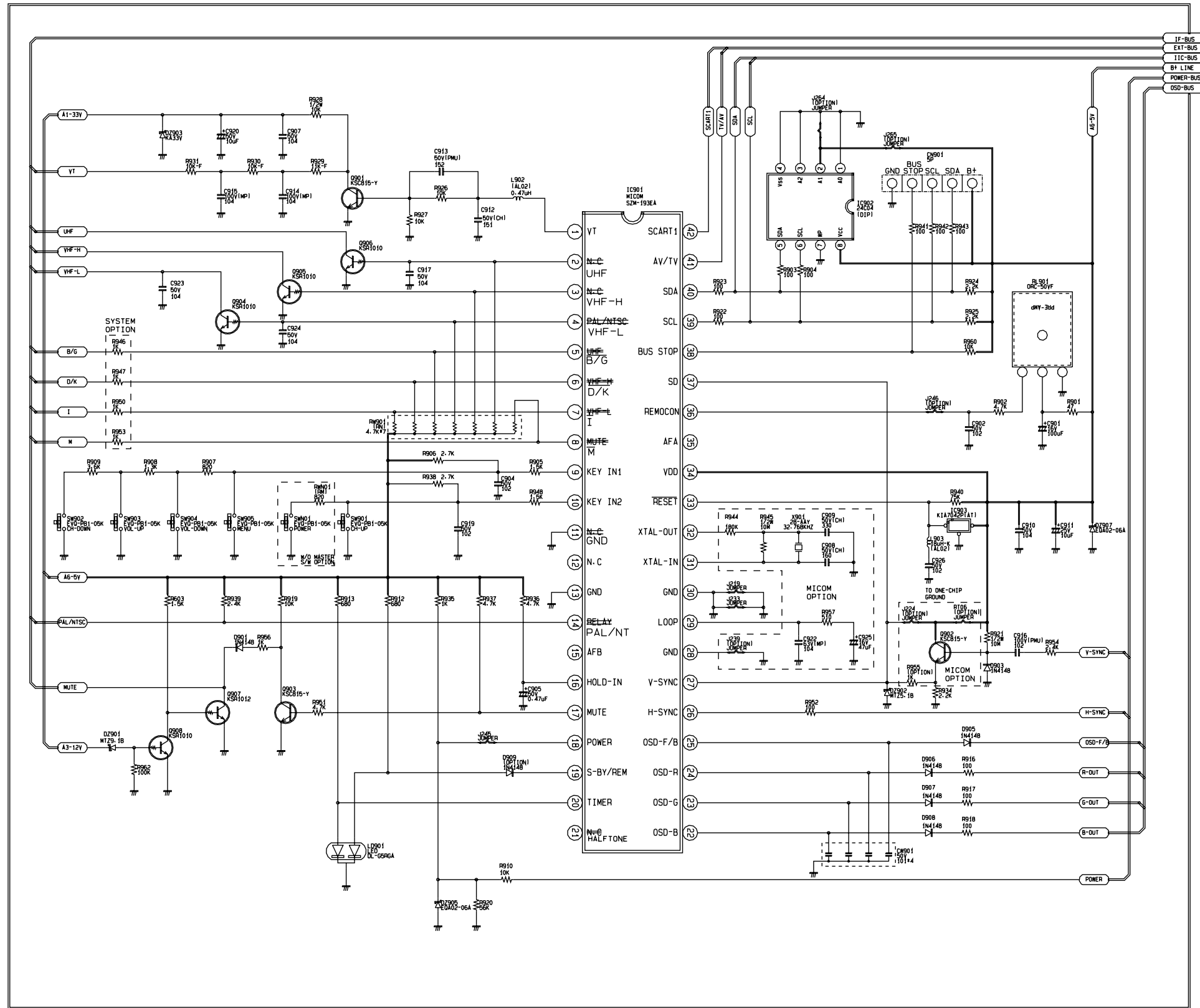
SYSTEM	CS-SYSTEM	CK-SYSTEM	CR-SYSTEM
R947	R-CA 1/8T 1K-J	R-CA 1/8T 1K-J	DELETE
R950	R-CA 1/8T 1K-J	DELETE	DELETE
R953	R-CA 1/8T 1K-J	DELETE	DELETE

MASTER/TACT-S/W OPTION

S/W	MASTER-S/W	TACT-S/W
R9M01	DELETE	R-CA 1/8T 820-J
SW01	DELETE	SWITCH-TACT 15W-208A



11-2 W/O TTX Micom



SYSTEM OPTION

SYSTEM LOC. NO.	CS-SYSTEM	DK-SYSTEM	CB-SYSTEM
R947	R-CA: 1/8T 1K-J	R-CA: 1/8T 1K-J	DELETE
R950	R-CA: 1/8T 1K-J	DELETE	DELETE
R953	R-CA: 1/8T 1K-J	DELETE	DELETE

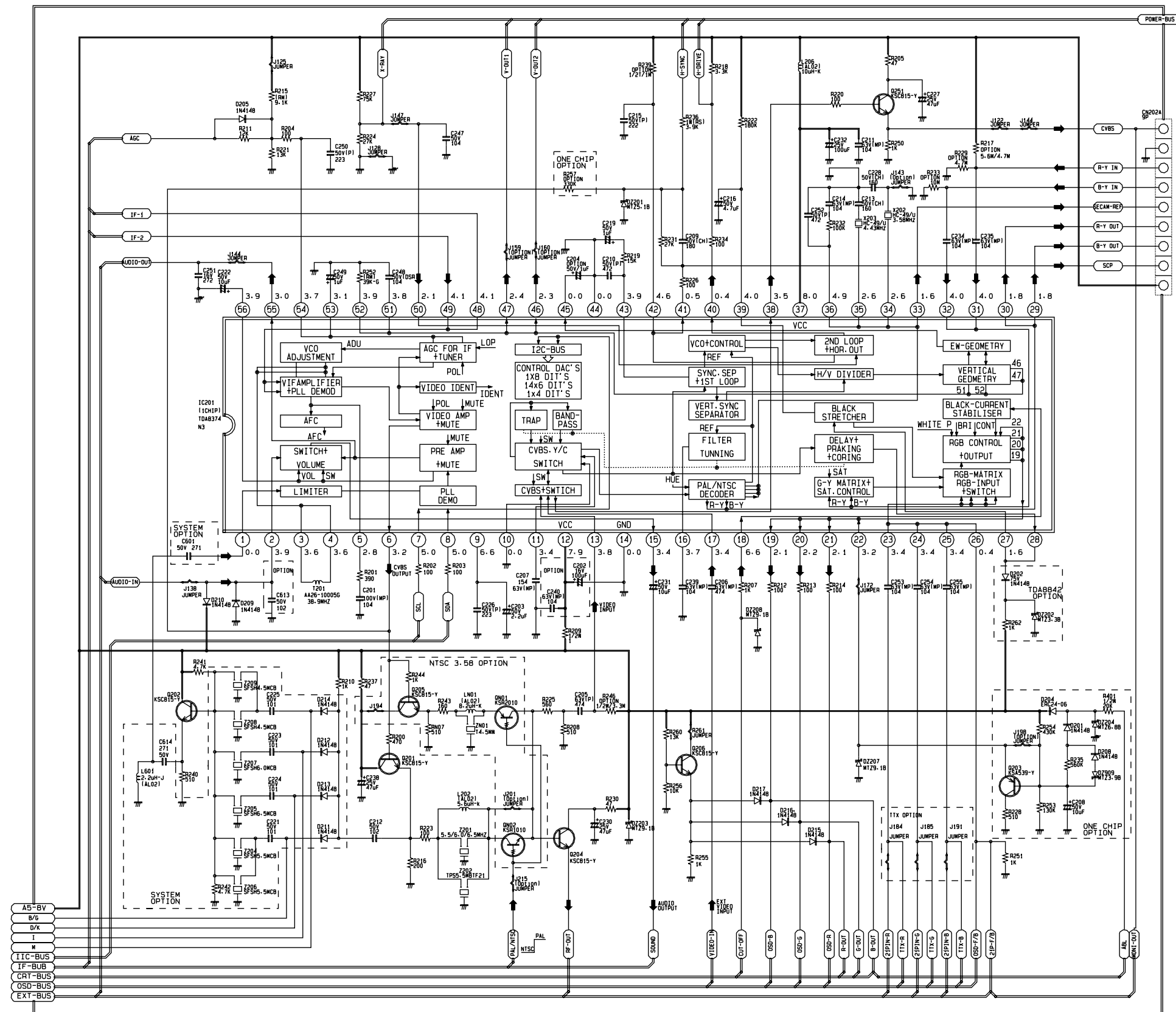
MICOM OPTION

MICOM LOC.	Z89331 0TP	Z89332 MASK	Z90211 0TP	Z90212 MASK
C908	C-CE: 50V 16P1CH	C-CE: 50V 10P1CH	C-CE: 50V 10P1CH	C-CE: 50V 10P1CH
C909	C-CE: 50V 33P1CH	C-CE: 50V 47P1CH	C-CE: 50V 10P1CH	C-CE: 50V 10P1CH
C922	DELETE	C-POLY: 63V 104-J	C-CE: 50V 47P1CH	C-CE: 50V 47P1CH
C925	DELETE	C-AL: 16V 47uf	DELETE	DELETE
C927	DELETE	DELETE	C-CE: 50V 47P1CH	C-CE: 50V 47P1CH
IC901	Z89331(2)PSCRI789	Z89332(2)PCS:MASK	Z90211(0)PCS:0TP	Z90212(0)PCS:MASK
J239	DELETE	JUMPER	DELETE	DELETE
L904	DELETE	DELETE	COIL-CHKE:13uH-K	COIL-CHKE:13uH-K
R944	R-CA: 1/8T 180K-J	R-CA: 1/8T 60K-J	JUMPER	JUMPER
R946	R-CA: 1/8T 10K-J	R-CA: 1/2T 10K-J	DELETE	DELETE
R957	DELETE	R-CA: 1/8T 510-J	DELETE	DELETE
X901	X-TAL: 32.768KHZ	X-TAL: 32.768KHZ	X-TAL: 6.0MHZ	X-TAL: 6.0MHZ
R908	R-CA: 1/8T 1.3K-J	R-CA: 1/8T 1.1K-J	R-CA: 1/8T 1.3K-J	R-CA: 1/8T 1.1K-J
R909	R-CA: 1/8T 3.6K-J	R-CA: 1/8T 2.2K-J	R-CA: 1/8T 3.6K-J	R-CA: 1/8T 2.2K-J
R901	R-NET: 4.7K*7.BP	DELETE	R-NET: 4.7K*7.BP	DELETE
R939	R-CA: 1/8T 2.4K-J	DELETE	R-CA: 1/8T 2.4K-J	DELETE

MASTER/TACT-S/W OPTION

S/W LOC.	MASTER-S/W	TACT-S/W
RW01	DELETE	R-CA: 1/8T 820-J
SW01	DELETE	SWITCH-TACT: 15V-20mA

11-3 ONE CHIP/CHROMA Block



TDA8374(N3)/TDA8B42 OPTION

LOC.	TDA8374(N3)	TDA8B42
R235	R-CA: 1/8T 560K-J	R-CA: 1/8T 20K-J
R254	R-CA: 1/8T 420K-J	DELETE
R253	R-CA: 1/8T 130K-J	DELETE
R207	R-CA: 1/8T 1K-J	R-CA: 1/8T 15K-J
R217	R-CA: 1/8T 5.6M-J	DELETE
C301	C-AXIAL: 50V/102	C-AXIAL: 16V/222
C302	C-AXIAL: 50V/102	C-AXIAL: 16V/222
R301	R-CA: 1/8T 3.6K-F	R-CA: 1/8T 3.0K-F
C234	C-POLY: 63V/104P	DELETE
C235	C-POLY: 63V/104P	DELETE
R222	R-CA: 1/8T 180K-J	DELETE
R228	R-CA: 1/8T 510-J	DELETE
D2207	DIODE-ZENER: M79-18	DELETE
D2203	TRANSISTOR: KS4539-Y	DELETE
J189	JUMPER	JUMPER
C216	C-AL: 50V/4.7uF	C-POLY: 63V/224P
C239	C-POLY: 63V/104P	C-AL: 63V/224P
C256	DELETE	C-AL: 50V/1uF
K203	K-TAL: PHIL IPS4.43MHZ	K-TAL: XOM4.43MHZ
K208	C-CERAMIC: 50V/160P(CH)	C-CERAMIC: 50V/101P(CH)
R257	DELETE	R-CA: 1/8T 330K-J
C215	C-POLY: 50V/222P	C-POLY: 50V/103P
D215	DIODE-SWITCHING: 1M4148	DELETE
D216	DIODE-SWITCHING: 1M4148	DELETE
D217	DIODE-SWITCHING: 1M4148	DELETE
R255	R-CA: 1/8T 1K-J	DELETE
R256	R-CA: 1/8T 10K-J	R-CA: 1/8T 330K-J
R260	R-CA: 1/8T 13K-J	DELETE
Q206	TRANSISTOR: KSC815-Y	DELETE
C252	C-POLY: 50V/472P	C-POLY: 50V/102P
C214	C-POLY: 50V/104P	C-POLY: 63V/473P
R232	R-CA: 1/8T 100K-J	R-CA: 1/8T 150K-J
C601	C-AXIAL: 50V/271	C-AXIAL: 50V/271P
C614	C-AXIAL: 50V/101P	C-AXIAL: 50V/271P
D2202	DELETE	DIODE-ZENER: M723-68
D202	DELETE	DIODE-SWITCHING: 1M4148
R262	DELETE	R-CA: 1/8T 1K-J
D2204	DELETE	DIODE-ZENER: M726-68
J172	JUMPER	R-CA: 1/8T 5.8K-F
C208	C-AL: 50V/10uF	C-AL: 50V/4.7uF
D2909	DELETE	DIODE-ZENER:
D208	DELETE	DIODE-SWITCHING: 1M4148
R411	R-METAL: 1/2T 91K-F	R-METAL: 1/2T 110K-F
R707	R-CA: 1/8T 470-J	R-CA: 1/8T 47-J
R709	R-CA: 1/8T 150-J	JUMPER
R710	R-CA: 1/8T 150-J	R-CA: 1/8T 510-J
Q704	TRANSISTOR: KS4539-Y	DELETE
IC201	CHROMA-IC:	CHROMA-IC:
R401	R-CA: 1/2T 20K-J	JUMPER
Q201	DIODE-SWITCHING: 1M4148	JUMPER
D204	DIODE: ERM34-06	DELETE

INCH-OPTION

INCH	21-INCH	20-INCH	16-INCH	14-INCH
R253	R-CA: 1/8T 130K-J	R-CA: 1/8T 120K-J	R-CA: 1/8T 110K-J	R-CA: 1/8T 110K-J
R204	RW 1/2T 3.9K-K		RW 1/2T 4.3K-F	
R205	RW 1/2T 9.1K-F		RW 1/2T 12K-F	

SYSTEM OPTION

SYSTEM	CS-SYSTEM	CK-SYSTEM	CB-SYSTEM
L601	INDUCTOR-AXIAL: 2.2uH	COIL-CHOKE: 5.6uH-K	COIL-CHOKE: 5.6uH-K
Z209	FILTER-CE: SFE4.5MCB	DELETE	DELETE
Z208	FILTER-CE: SFSM4.5MCB	DELETE	DELETE
C225	C-CE: 50V 1011AXIAL1	DELETE	DELETE
D214	DIODE-S/M: 1M4148	DELETE	DELETE
Z207	FILTER-CE: SFSM5.0MCB	DELETE	DELETE
C223	C-CE: 50V 1011AXIAL1	DELETE	DELETE
D212	DIODE-S/M: 1M4148	DELETE	DELETE
Z205	FILTER-CE: SFSM5.5MCB	FILTER-CE: SFSM5.5MCB	DELETE
C224	C-CE: 50V 1011AXIAL1	C-CE: 50V 1011AXIAL1	DELETE
D213	DIODE-S/M: 1M4148	DIODE-S/M: 1M4148	DELETE
Z206	FILTER-CE: SFSM5.5MCB	FILTER-CE: SFSM5.5MCB	DELETE
J194	JUMPER	DELETE	DELETE
R244	R-CA: 1/8T 1K-J	DELETE	DELETE
Q205	TR-SMALL SIGNAL: KSC815	DELETE	DELETE
R207	R-CA: 1/8T 510-J	DELETE	DELETE
R243	R-CA: 1/8T 100-J	DELETE	DELETE
L201	COIL-CHOKE: 5.6uH-K	DELETE	DELETE
Z201	FILTER-CE: 1P54.5MM	DELETE	DELETE
Z202	FILTER-CE: 1P55.5MM	FILTER-CE: 1P55.5MM	DELETE
D201	DELETE	JUMPER	JUMPER
Q202	TR-DIGITAL: KSR1010	DELETE	DELETE
J215	JUMPER	DELETE	DELETE
C601	C-AXIAL: 25V 271	C-AXIAL: 25V 223	C-AXIAL: 25V 223
C614	C-AXIAL: 50V 271	C-AXIAL: 25V 101	C-AXIAL: 25V 101

AREA OPTION

AREA	CE	EXTRA
C202	DELETE	C-AL 16V 100uF
C240	DELETE	C-POLY 63V 104
C613	C-CERAMIC AXIAL 50V 331	C-CERAMIC AXIAL 50V 102
J200	JUMPER	DELETE
J272	JUMPER	DELETE
J273	JUMPER	DELETE
R717	R-CARBON 1/8W 15K	R-CARBON 1/8W 5.6K

11-4 IF/Sound . EXT-A/V Block

AUDIO-AMP OPTION

LOC. NO.	DESCRIPTION	VALUE	DELETE
OB11	C-FILM PEP-50V 472-J	DELETE	
OB12	C-AL-50V/0.47UF	DELETE	
OB601	CONNECTOR-HEADER-BOX-4P	DELETE	
OB602	CONNECTOR-HEADER-AUTO-12P	DELETE	
OB701	CONNECTOR-HEADER-AUTO-9P	DELETE	
DB03	DIODE-RECTIFIER-FM-602S	DELETE	
DB05	DIODE-RECTIFIER-RSP-15G	DELETE	
IC501	ASSY-H/S-SOUND-1DA7057A0	DELETE	
IC502	ASSY-H/S-SOUND-1DA7056B	DELETE	
J131	JUMPER	DELETE	
J134	JUMPER	DELETE	
J177	JUMPER	DELETE	
R605	R-CA-1/8T 22K-J	DELETE	
R606	R-CA-1/8T 3.6K-J	DELETE	
R814	R-FUS:2T 0.47-J	DELETE	
R815	R-FUS:2T 0.47-J	DELETE	

LINE STEREO FRONT-A/V OPTION

LOC.	DESCRIPTION	VALUE	DELETE
CE01	C-CERAMIC-50V 1011AXIAL1	DELETE	
CE02	C-CERAMIC-50V 1011AXIAL1	DELETE	
CN701	CONNECTOR-HEADER-3MALL-3P-ANGLE	DELETE	
CN702	LEAD CONNECTOR-ASSY-YBMH250-11-300MM	DELETE	
JA701	JACK-RCA:3P-3.6MM	DELETE	
LE01	INDUCTOR-AXIAL:10UH-K-AL02	DELETE	
LE02	INDUCTOR-AXIAL:10UH-K-AL02	DELETE	
PCB	FRONT-A/V:111-9A721-61L-56	DELETE	
PCB	LINE STEREO:391511-61-1E-2E-3E	DELETE	

MONO/21PIN/LINE STEREO OPTION

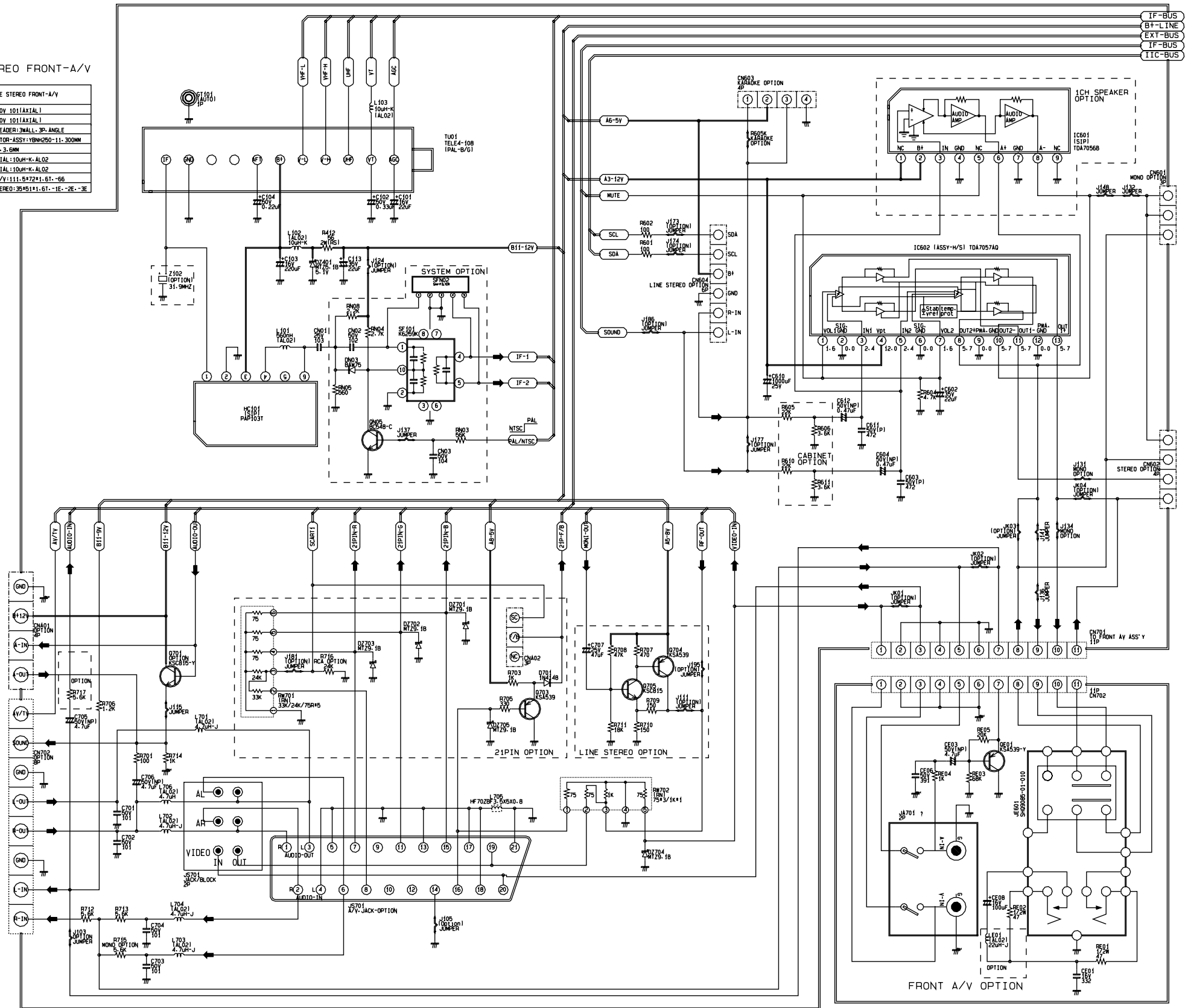
SYSTEM	MONO RCA-4P	LINE STEREO RCA-6P	21-PIN SCART
C701	DELETE	C-CE:50V 1011AXIAL1	DELETE
C705	C-AL-50V 0.47UF(NP1)	DELETE	C-AL:50V 0.47UF(NP1)
C706	C-AL-50V 0.47UF(NP1)	DELETE	C-AL:50V 0.47UF(NP1)
C707	DELETE	C-AL-25V 47UF	DELETE
CM604	DELETE	POST-HEADER-6P	DELETE
CN702	DELETE	ASSY-LINE STEREO	DELETE
J199	JUMPER	DELETE	JUMPER
J177	JUMPER	DELETE	JUMPER
J186	JUMPER	DELETE	JUMPER
J111	DELETE	JUMPER	DELETE
JS701	JACK-PIN-RCA-4P	JACK-PIN-RCA-6P	JACK-RCA:21P-SCART
L701	DELETE	COIL-CHOKE:4.7UH-K	DELETE
L706	COIL-CHOKE:4.7UH-K	DELETE	COIL-CHOKE:4.7UH-K
G704	DELETE	TRANSISTOR:KS4539-Y	DELETE
G705	DELETE	TRANSISTOR:KSC815-Y	DELETE
R601	DELETE	R-CA-1/8T 100-J	DELETE
R712	DELETE	R-CA-1/8T 5.6K-J	DELETE
R713	DELETE	DELETE	R-CA-1/8T 5.6K-J
L704	DELETE	COIL-CHOKE:4.7UH-K	COIL-CHOKE:4.7UH-K
C704	DELETE	C-CE:50V 1011AXIAL1	C-CE:50V 1011AXIAL1
R602	DELETE	R-CA-1/8T 100-J	DELETE
R701	R-CA-1/8T 100-J	DELETE	R-CA-1/8T 100-J
R706	R-CA-1/8T 1.2K-J	DELETE	R-CA-1/8T 1.2K-J
R707	DELETE	R-CA-1/8T 470-J	DELETE
R708	DELETE	R-CS:1/8T 47K-J	DELETE
R709	DELETE	R-CA-1/8T 150-J	DELETE
R710	DELETE	R-CA-1/8T 150-J	DELETE
R711	DELETE	R-CA-1/8T 18K-J	DELETE
R712	DELETE	R-CA-1/8T 5.6K-J	DELETE
J173	DELETE	JUMPER	DELETE
J174	DELETE	JUMPER	DELETE
ASSY			
RW701	DELETE	DELETE	R-NET:33K/24K/7543-6P
DZ701	DELETE	DELETE	DIODE-ZENER:W1Z9-1B
DZ702	DELETE	DELETE	DIODE-ZENER:W1Z9-1B
DZ703	DELETE	DELETE	DIODE-ZENER:W1Z9-1B
G703	DELETE	DELETE	TRANSISTOR:KS4539-Y
R703	DELETE	DELETE	R-CA:1/8T 1K-J
D701	DELETE	DELETE	DIODE-S/W 1M4148
R705	DELETE	DELETE	R-CA-1/8T 330-J
DZ705	DELETE	DELETE	DIODE-ZENER:W1Z9-1B
R716	R-CA-1/8T 24K-J	DELETE	R-CA-1/8T 24K-J

SYSTEM OPTION

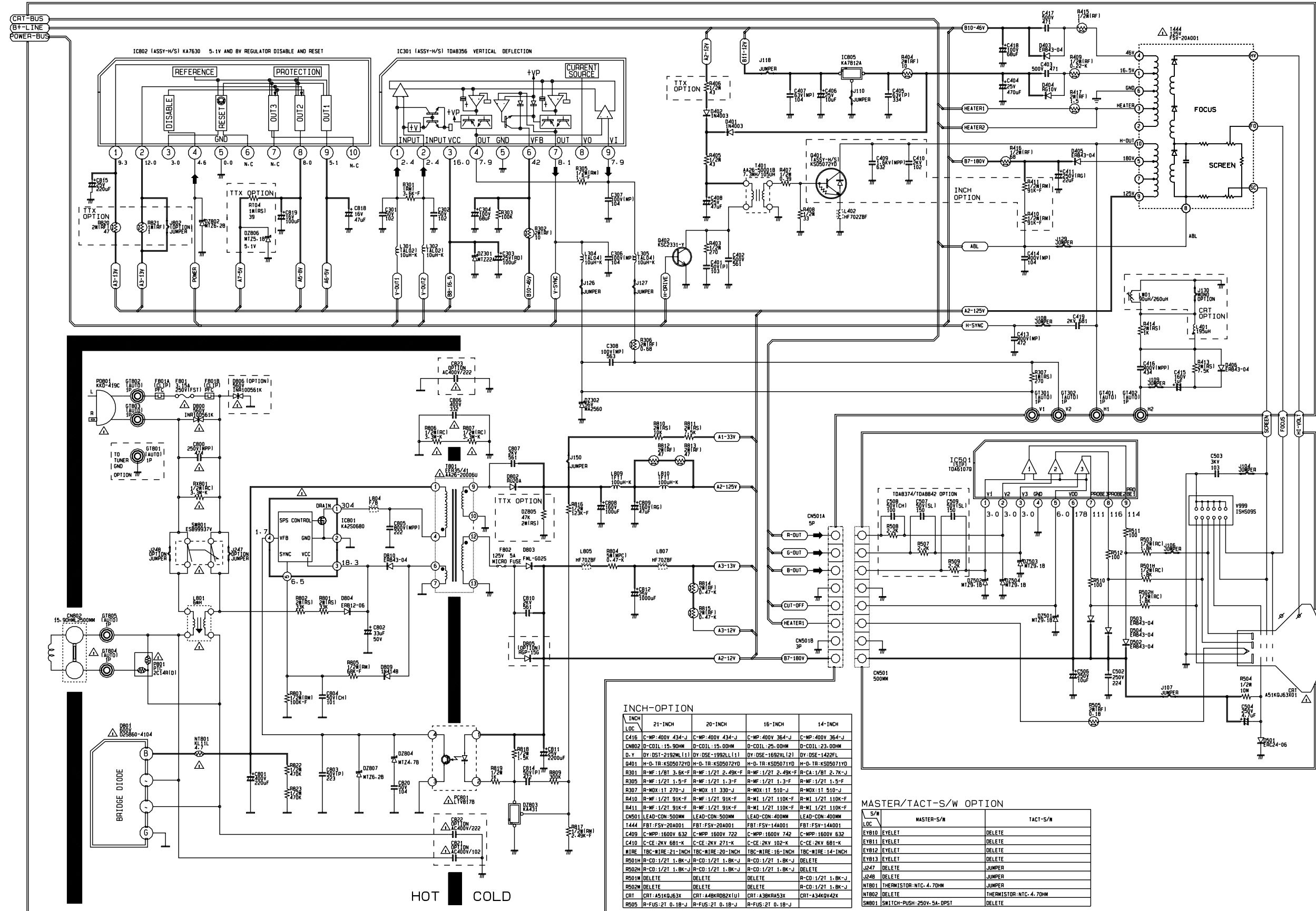
SYSTEM	CS-SYSTEM	CK-SYSTEM	CB-SYSTEM
J124	JUMPER	DELETE	DELETE
RN08	R-CA-1/8T 2.2K-J	DELETE	DELETE
RN04	R-CA-1/8T 2.7K-J	DELETE	DELETE
CN02	C-CE 50V 1021AXIAL1	JUMPER	JUMPER
CN03	DIODE-S/W:BAW75	DELETE	DELETE
RN05	R-CA-1/8T 2.2K-J	DELETE	DELETE
CN05	TR-SMALL SIGNAL:BC548	DELETE	DELETE
J137	JUMPER	DELETE	DELETE
CN03	C-CE:50V 1041AXIAL1	DELETE	DELETE
RN03	R-CA-1/8T 56K-J	DELETE	DELETE
SF 101	FILTER-SAW AV:K6295K	DELETE	DELETE
SF102	DELETE	FILTER-SAW AV:K2971M	FILTER-SAW AV:G1963M

FRONT-A/V DELETE OPTION

LOC.	FRONT-A/V	DELETE
J801	DELETE	JUMPER
C709	DELETE	C-ELEC 50V 4.7UF NP
J803	DELETE	JUMPER
J804	DELETE	JUMPER
J141	JUMPER	DELETE
J136	JUMPER	DELETE
J134	JUMPER	DELETE
CN701	POST-HEADER:11P-85-39	DELETE
POST-HEADER:SP-73-38	DELETE	DELETE



11-5 Power /Vertical /Horizontal /CRT



11-6 A/V Front, SUB

