

SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : KS1A
Model : CS15K2X/BWT,NWT,VWT
CS15K8WX/BWT,NWT,VWT
CS2073S/BWT,NWT,VWT
CS21F5X/BWT,NWT,VWT
CS2173S/BWT,NWT,VWT
CS21D8S/NWT,BWT,VWT
CS21S1S/NWT,BWT,VWT

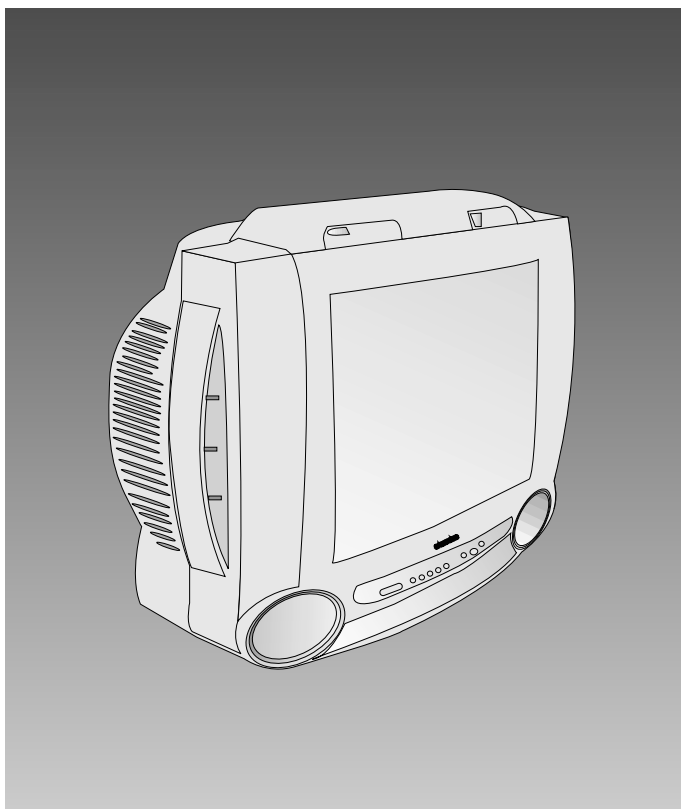
QQ :376315150

2007.04.27

手机:13942296513

SERVICE Manual

COLOR TELEVISION RECEIVER



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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(H)	
21 Inch	A51KQJ63X	

Power Requirements:

AC 100~240V, 50/60Hz

Antenna Input Impedance:

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

Speaker Impedance

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

2-2 IC Line Up

Table 2-1 IC Line-Up			
Loc. No	Specification	Description	Remark
HC101	PAP103	IF PRE-AMP	
IC201S	SPM802ER	TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal	Philips
	SPM802ERN	W/O TTX, English/Croatian/Romanian/Hungarian/Polish/Czech/ Bulgarian/Russian/Portugal	
IC301	LA7840	VERTICAL OUTPUT	Sanyo
IC501	TDA6107Q	RGB DRIVE AMP	Philips
IC601	TDA7266S	SOUND-AMP (3W x 1CH or 3W x 2CH or 5W x 2CH)	
IC801S	KA5Q0765R	POWER IC (STR)	
IC802	KA7632	CUSTOM REGULATOR (5V, 8V, 3.3V)	
IC902	24C08/KS28C040	EEPROM	
PC801S	TCET1108 / LTV817B	PHOTO COUPLER	
IC101	U4468B	SIF - IC	TEMIC

2-3 Semiconductor Base Diagrams

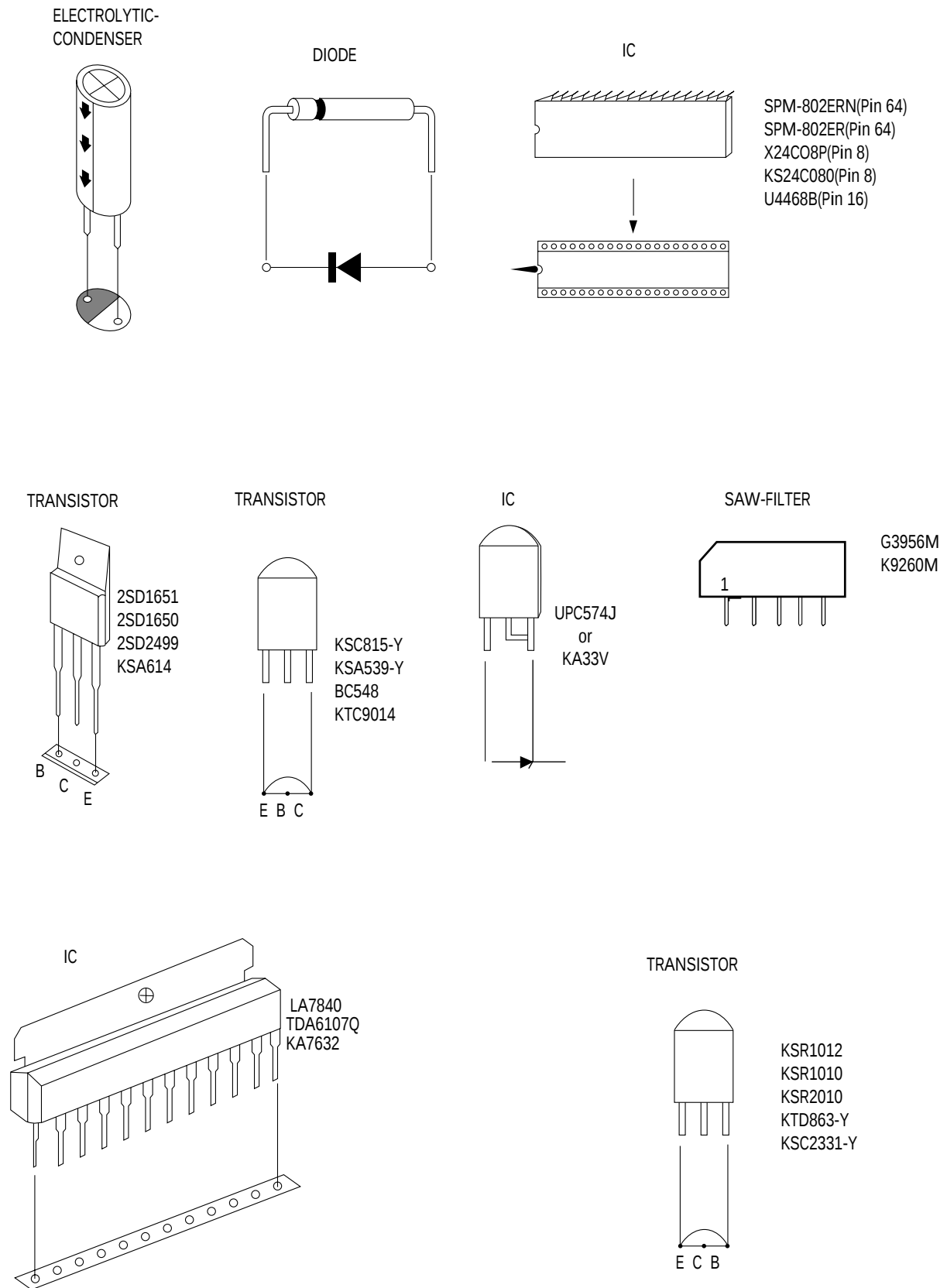


Fig. 2-1 Semiconductor Base Diagrams

MEMO

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

14 inch : 0
20 inch : 9
21 inch : 9

4-2 Factory/Service Mode

4-2-1 Procedure for the “Adjustment” Mode

1. This mode uses the standard remote control. The Service Mode is activated by entering the following remote-control sequence :
 - (1) DISPLAY→FACTORY.
 - (2) STAND-BY→ DISPLAY→ MENU→ MUTE →POWER ON.
2. The “SERVICE (FACTORY)” message will be displayed. The Service Mode has four components: ADJUST, OPTION and Reset.
3. Access the Adjustment Mode by pressing the “VOLUME” keys (Up or Down). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys (▲ ,▼).

4. Selection sequences for the all system:

DOWN or UP key:
SCT>SBT>BLR>BLB>RG>GG>BG>VSL>
VS>VA>HS>SC>SDL>STT>SSP>PDL>
NDL>PSR>NSR>AGC>VOL>LCO>TXP

5. The VOLUME keys increase or decrease the adjustment values (stored in the non-volatile memory) when Adjustment Mode is cancelled.
6. Cancel the Adjustment Mode by re-pressing the “FACTORY” or “Power OFF” keys.

4-2-2 Main Adjustment Parameter

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

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

4-2-3 Option Bytes

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

Option Table : xx xx xx xx

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

4-2-4 RESET

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

1. Picture	Custom
2. Auto Volume	Off
3. Color System	Auto (option)
4. Sound System	D / K (option)
5. Blue Screen	Off
6. Low Noise AMP	Off (option)
7. Volume	10
8. CH. Skip	Erased
9. CH. Lock	Off
10. Timer	Off

4-3 Other Adjustments

4-3-1 General

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

4-3-2 Automatic Degaussing

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

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

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

4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +125 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 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 $120 \pm 2.5V$ (See Fig. 4-1).

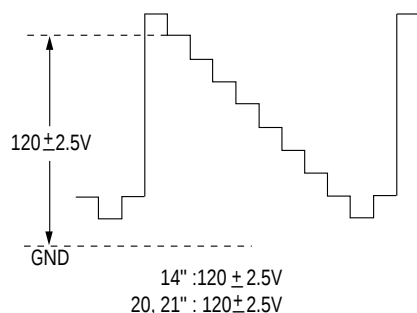


Fig. 4-1

4-3-6 Purity Adjustment

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

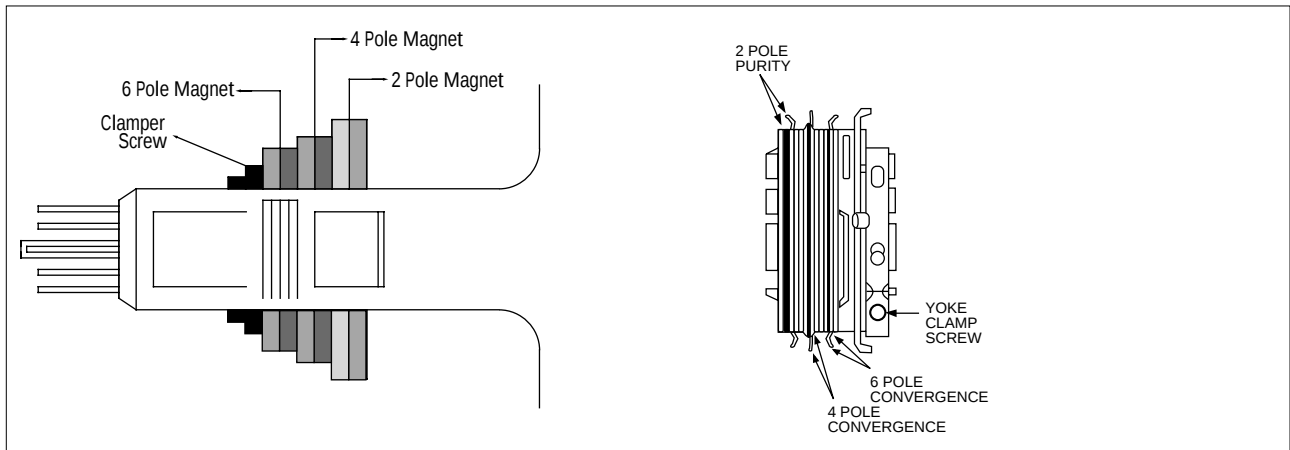


Fig. 4-2 Convergence Magnet Assembly

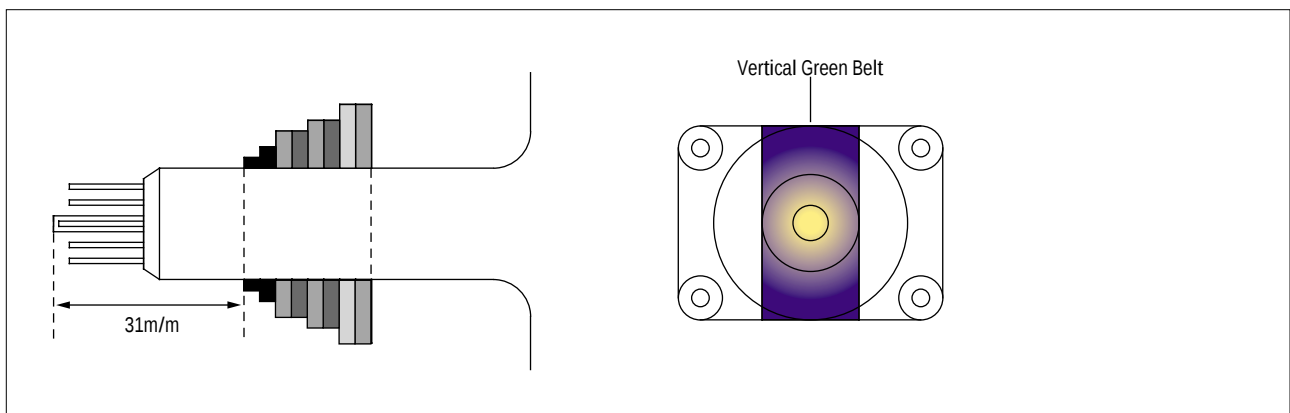


Fig. 4-3 Center Convergence Adjustment

4-3-7 White Balance Adjustment

(a) Set up

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

DISPLAY → FACTORY → FACTORY

2. Input a Toshiba pattern.

(b) Low-Light Adjustment

1. Set SBT to 3.5 ± 0.5 fL in the Factory Service Mode with using CA100. See Fig. 4-4 ②.
2. Adjust RG,BG so that the levels are suitable to each local area.

(c) High-Light Adjustment

1. Set SCT to 55 FL (20". 21"), 65 FL(14") in the Factory Service Mode with using CA100. See Fig. 4-4 ①.

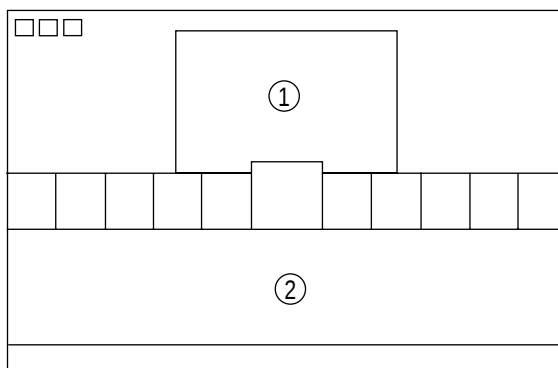


Fig. 4-4

4-3-8 Center Convergence Adjustment

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

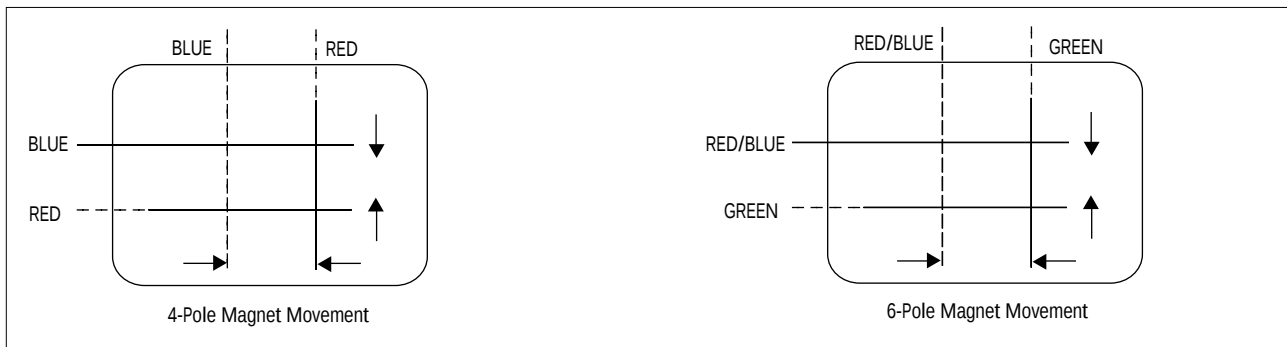


Fig. 4-5 Center Convergence Adjustment

4-3-9 RF AGC Adjustment

Set the AGC data to 23 (Factory Mode).

4-3-10 Sub-Color Adjustment

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

4-3-11 Geometry Adjustment

SC → VS → VSL → HS

1. Input a lion head pattern (in the PAL channel).
2. Set the SC (S-Correction) as follows : 9 (21"), 9 (20"), 0 (14") and VA 40 so that the lion head circle becomes oval.
3. Adjust with VSL (Vertical-Slope) so that the bottom margin of the picture is 4.
6. Adjust HS (using the width coil) so that the left and right margins of the picture are 5.

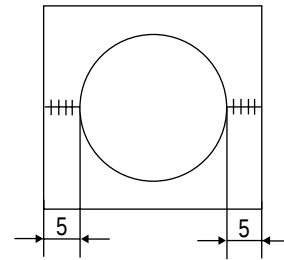


Fig. 4-9

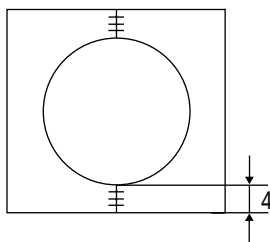


Fig. 4-7

4. Adjust with VS (Vertical shift) so that the top margin of the picture is 4.

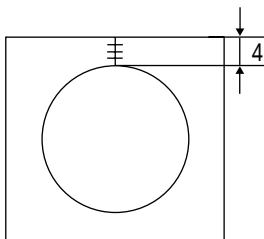
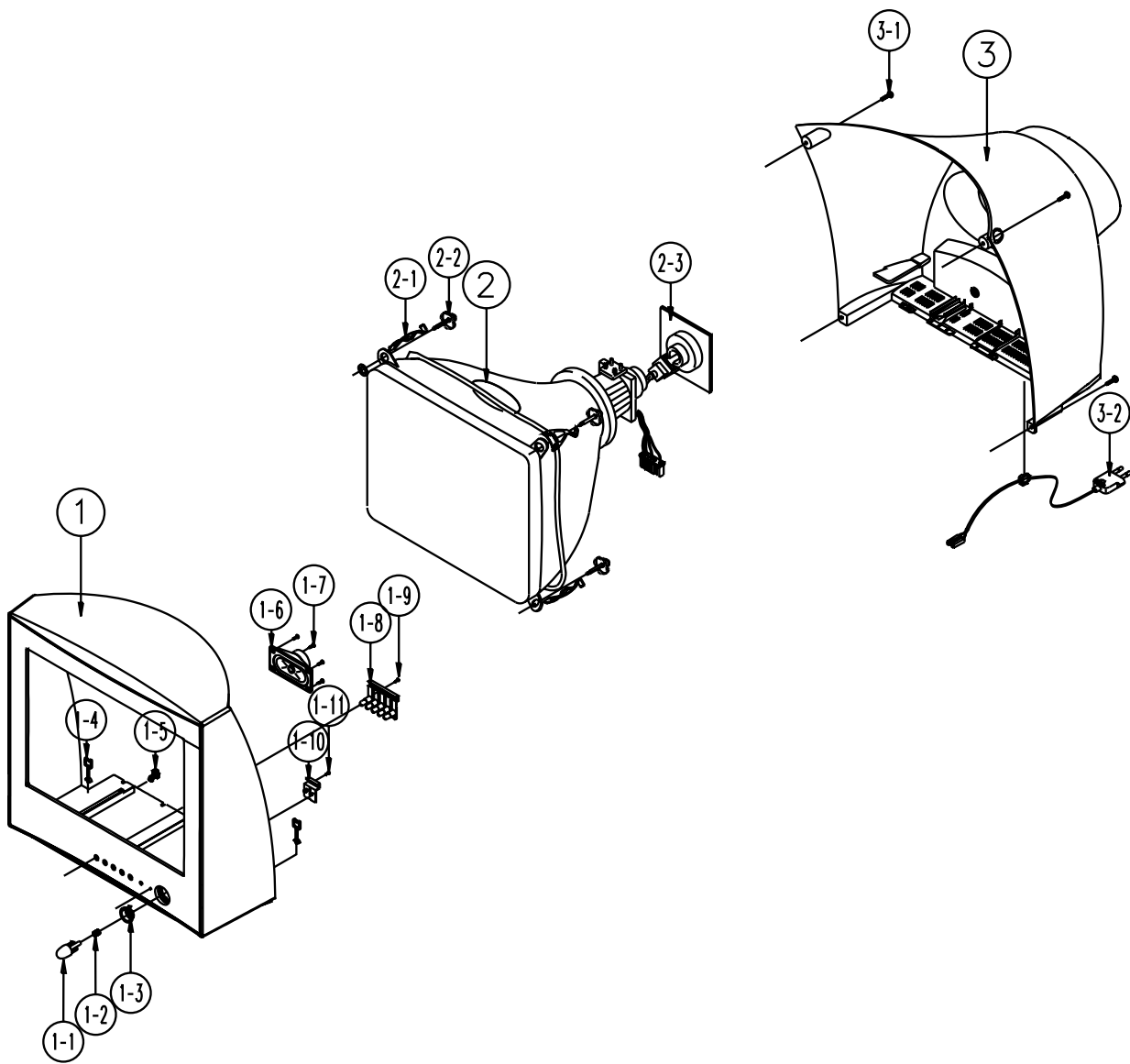


Fig. 4-8

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

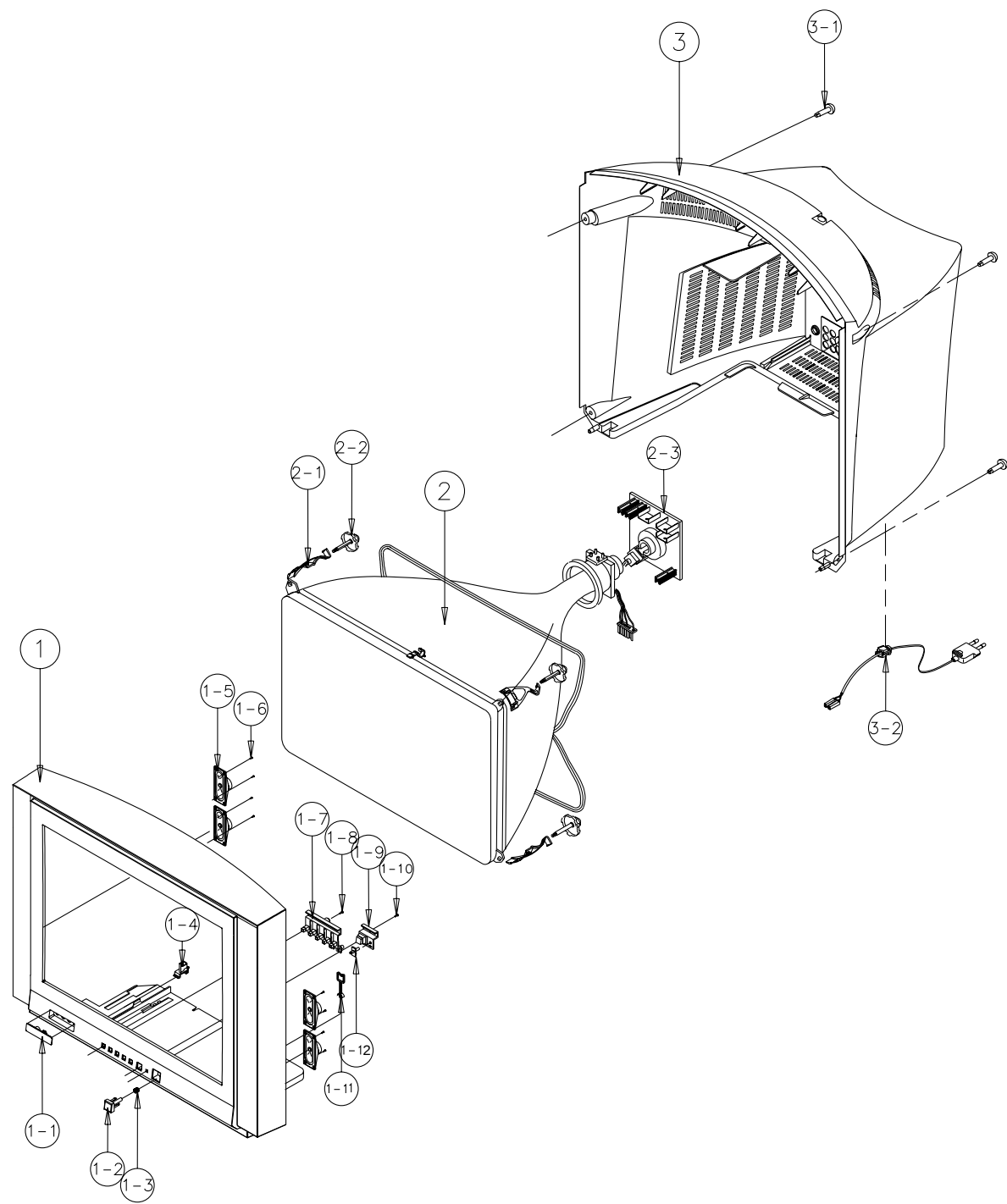
6. Exploded View & Parts List

6-1 CS15K2X/BWT



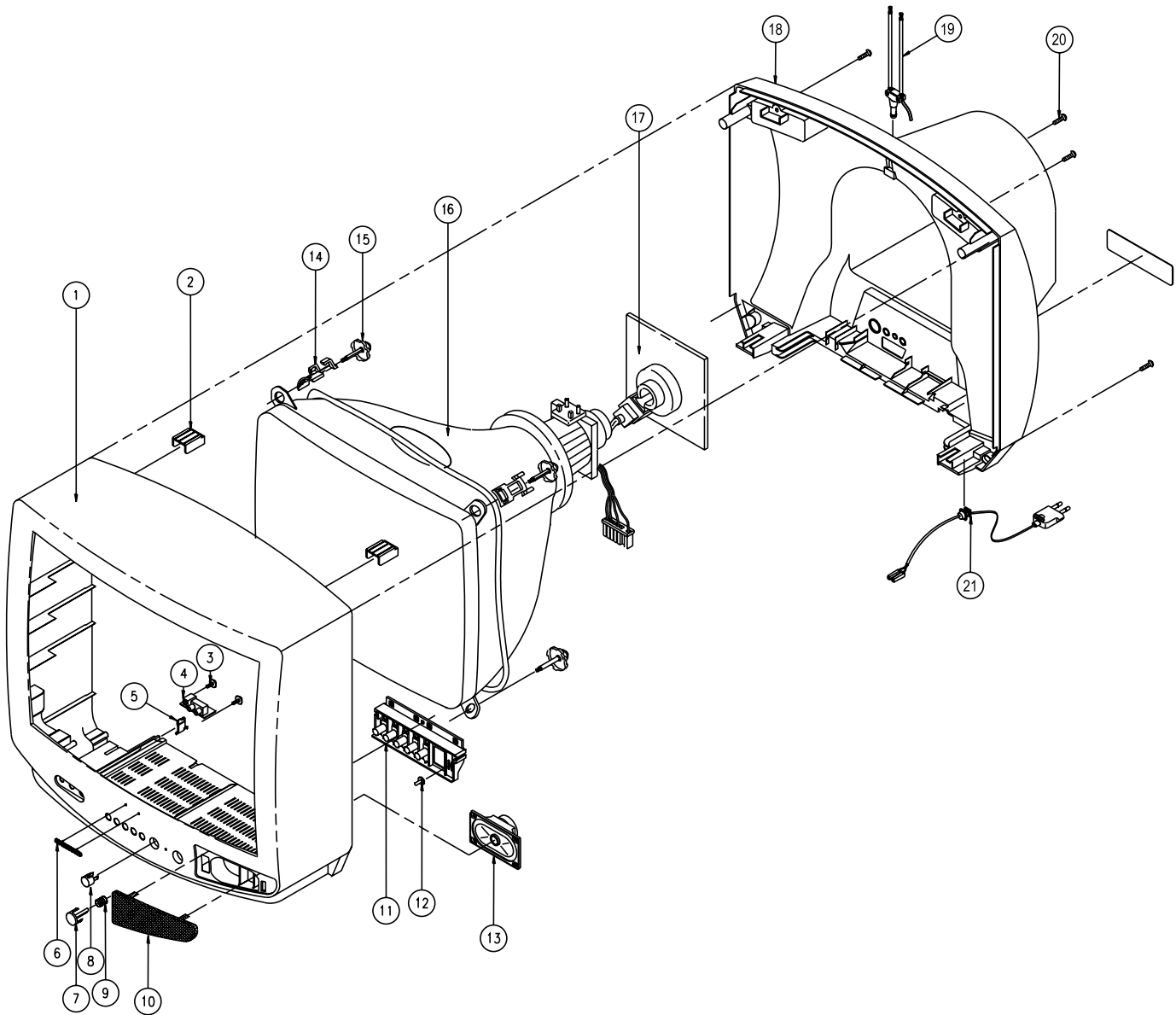
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	AA64-01691D	CABINET FRONT;15K2,SV012P MPP,HIPS,HB,G7	1	
1-1	AA64-01693B	KNOB POWER;15K2,ABS,G3676,SV104M+W971,HB	1	
1-2	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	1	
1-3	AA64-01697B	DECORATION-POWER;15K2,PC,SEMI-VIOLET	1	
1-4	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	1	
1-5	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
1-6	AA96-00652A	ASSY SPEAKER;-;16OHM,3W,3001-001211,200M	1	
1-7	6003-001022	SCREW-TAPTITE;RH,+,B,M3,L12,ZPC(BLK),SWR	4	SPK+CF
1-8	AA64-01696B	KNOB CONTROL;15K2,ABS,G3676,SV104M+W971,	1	
1-9	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+CF
1-10	AA64-01694B	WINDOW REMOCON;15K2,ACRYL,CLR	1	
1-11	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	WIN+CF
2	AA03-00146A	CRT COLOR;-;A36QDT351X,+380mG,15inch,90,	1	
2-1	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-;20~22 INC	2	
2-2	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT
2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
3	AA64-01692C	CABINET BACK;15K2,HIPS,V2,BLK	1	
3-1	AA60-10050T	SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
3-2	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	1	

6-2 CS15K8WX/BWT



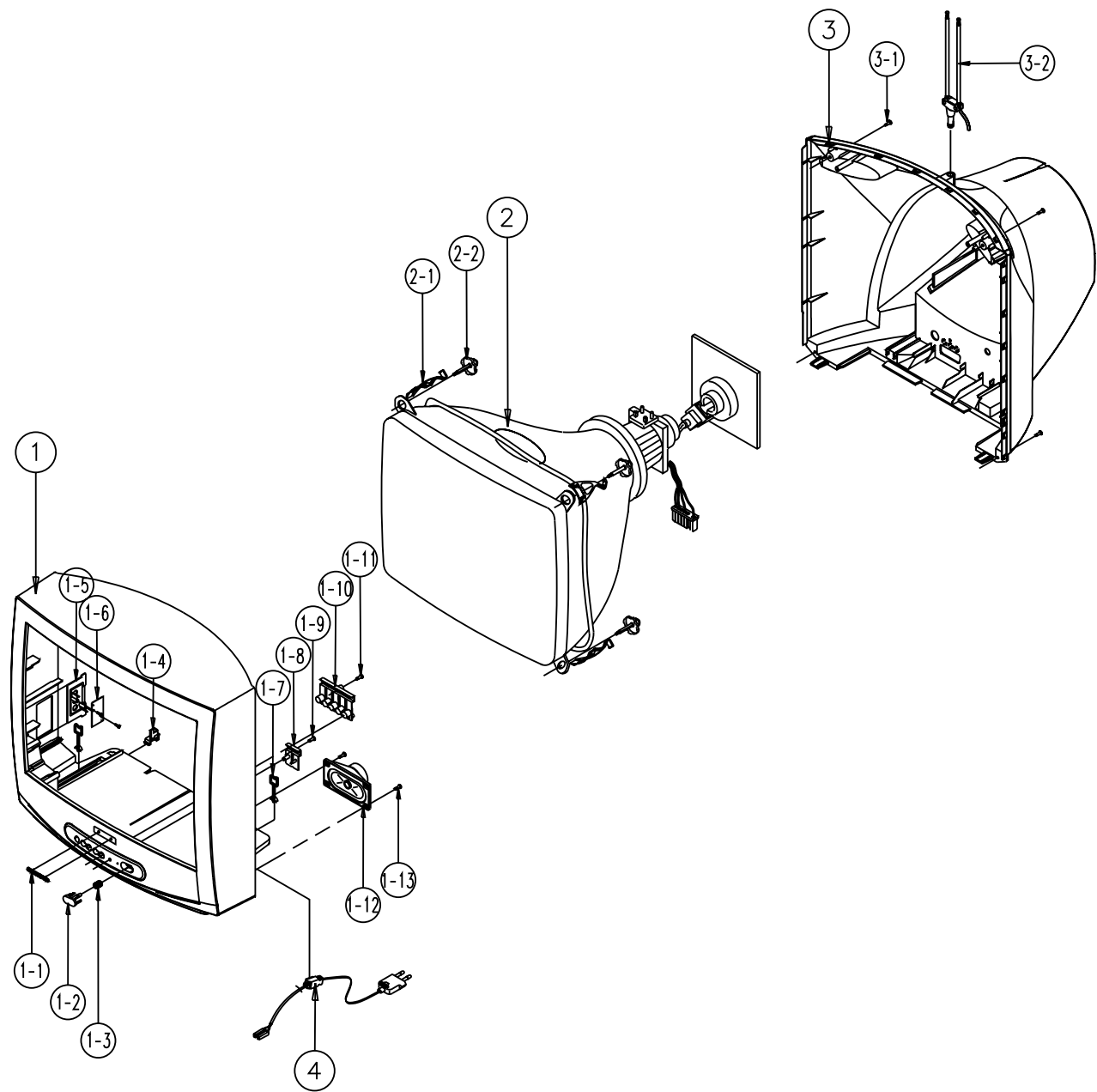
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	1-1	INLAY-COVER			
	1-2	AA64-01371C	KNOB POWER;15K8,ABS,G3676,SV012P+W971,HB	1	
	1-3	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	1	
	1-4	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
	1-5	AA96-10137B	ASSY-SPEAKER;-;8OHM,3W,3001-001020,AA39-	4	
	1-6	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	8	SPK+CF
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	1-9	AA64-00816B	WINDOW REMOCON;-;21A8,-,PC,V0,VIOLET,-	1	
	1-10	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	1	WIN+CF
	1-11	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	1	
	1-12	AA64-00818B	INDICATOR LED;-;21A8,-,ACRYL,-,CLR,-	1	
2	AA03-00146A	CRT COLOR;-;A36QDT351X,+380mG,15inch,90,	1		
	2-1	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20-22 INC	2	
	2-2	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
	2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
3	AA64-01731C	CABINET BACK;15K8,HIPS,V2,BLK	1		
	3-1	AA60-10050T	SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
	3-2	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	1	

6-3 CS2073S/BWT



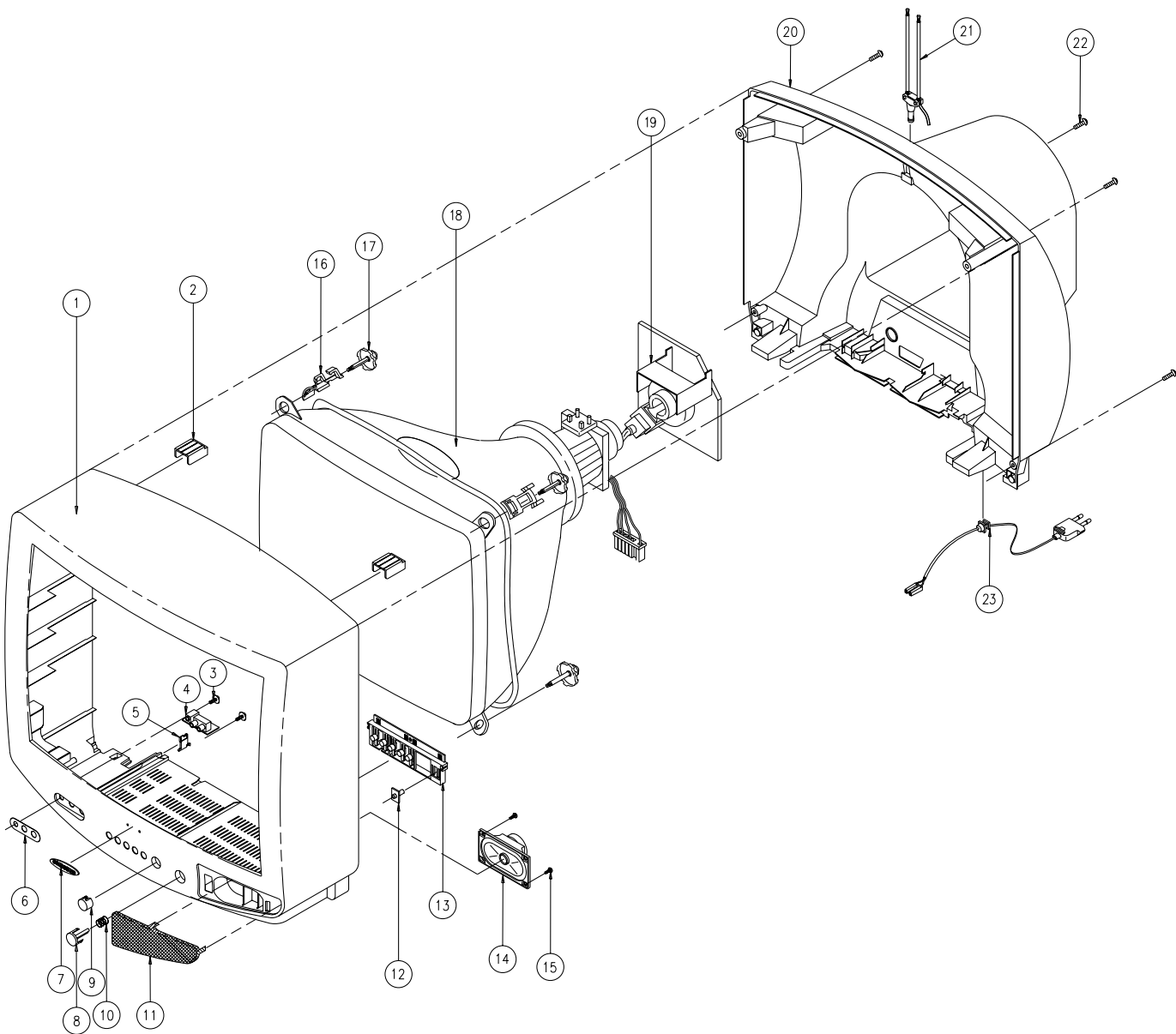
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2	AA61-40010A	BOSS-WING;- ,HIPS;-,-,-,NTR,HB	2	
3	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	2	PA+CF
4	AA95-01042B	ASSY-PCB,A/V FRONT;DP,2139,KS1A,AA95-900	1	
5	AA61-40007A	STOPPER-PCB;5038.5368,HIPS HB,-,-,-,NTR,	1	
6	AA64-70127F	BADGE-BRAND;AL,SAMSUNG,SILVER,L40,R800,N	1	
7	AA64-10131A	KNOB-POWER;- ,5073,-,ABS,HB,BLK	1	
8	AA61-60003J	SPRING-CS;- ,SUS304,0.5,OD6,H12,N7,-,-,-	1	
9	AA64-40044B	WINDOW-REMOCON;- ,5073,-,PC,V0,VIOLET,-	1	
10	AA63-50095A	GRILLE-WOOFER;- ,5073,PA110 PI0.6,SECC,T0	1	
11	AA64-10039A	KNOB-CONTROL;- ,5073,-,ABS,HB,BLK	1	
12	AA64-40182A	INDICATOR-LED;- ,5073,-,ACRYL,-,-,-	1	
13	AA96-10140A	ASSY-SPEAKER;- ,16ohm3W,00003,AA320501C,R	1	
14	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20~22 INC	4	
15	AA60-10050R	SCREW-ASSY;- ,SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
16	AA03-10029W	CRT-COLOR;- ,A48KRD82X(H),+380mG,20,90de	1	
17	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
18	AA64-30375D	CABINET-BACK;- ,5038.73,-,HIPS,V2,BLK,-,-	1	
19	AA42-00003A	ANT ROD;- ,3S,720mm,ABS,UL/CSA,-	1	
20	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	4	CB+CF
21	AA96-20109B	ASSY-POWER,CORD;- ,CP2/NO(4.0),H/C250,KKP	1	

6-4 CS21F5X/BWT



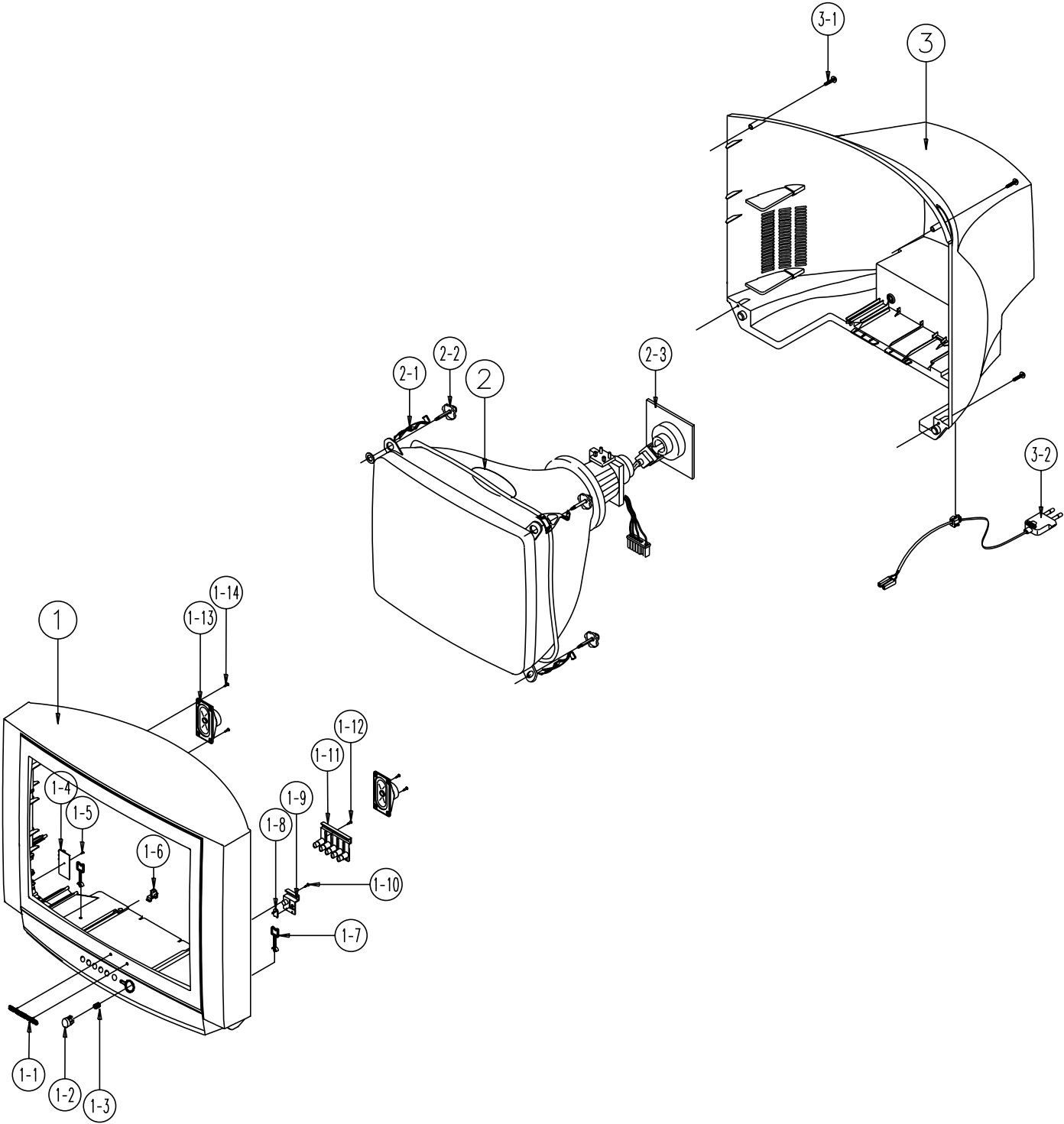
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	AA64-01703B	CABINET FRONT;21F5 KS1A,SV704P ML RUS,HI	1		
	1-1	AA64-70010B	BADGE-BRAND;AL,SS R2000 25,SILVER,L50,-,	1	
	1-2	AA64-01705B	KNOB POWER;21F5,ABS,G3676,NO-SILK,HB	1	
	1-3	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7;-,-,-	1	
	1-4	AA61-40113A	STOPPER-PCB;501H,HIPS;-,-,HB,NTR,-	1	
	1-5	AA95-01118A	ASSY-A/V SIDE;;KS1A,PAL,MONO	1	
	1-6	AA41-00412A	PCB-A/V SIDE;CS21F5,FR-1,1L,A,1.6T,245x2	1	
	1-7	AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	1	
	1-8	AA64-01706B	WINDOW-RMC,LED;21F5,ACRYL,CLEAR	1	
	1-9	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	1	WRL+CF
	1-10	AA64-01707B	KNOB CONTROL;21F5,ABS,G3676,HB	1	
	1-11	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	1	KC+CF
1-12	AA96-10140B	ASSY-SPEAKER;-;160HM,3W,3001-001039,AA39	2		
1-13	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	4	SPK+CF	
2	AA03-10024T	CRT-COLOR;-;A51KQJ63X(H),+380mG,21,90de	1		
	2-1	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20-22 INC	4	
	2-2	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
3	AA64-01704B	CABINET BACK;21F5,HIPS,V2,BLK	1		
	3-1	AA60-10050T	SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
	3-2	AA42-00003A	ANT ROD;-;3S,720mm,ABS,UL/CSA,-	1	
4	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	1		

6-5 CS2173S/BWT



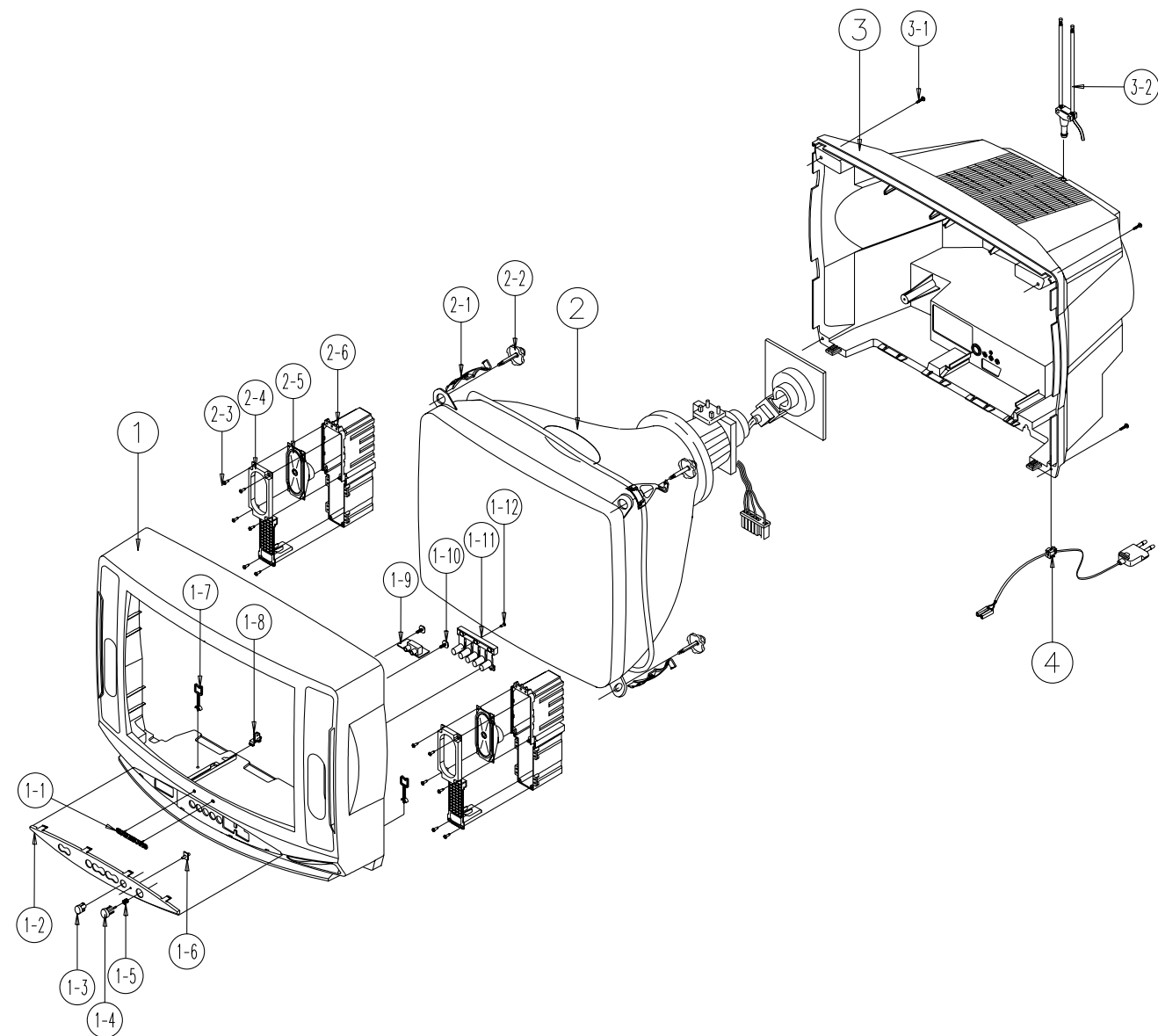
No	Code No	Description;Specification	Q'ty	Remark
1	AA91-00545A	ASSY CABINET FRONT;DP,5373,(SPK) 64-0023	1	
2	AA61-40010A	BOSS-WING;- ,HIPS,-,-,-,NTR,HB	2	
3	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+ ,M4,L12,ZPC(YEL)	2	
4	AA95-01042B	ASSY-PCB,A/V FRONT;DP,2139,KS1A,AA95-900	1	
5	AA61-40007A	STOPPER-PCB;5038.5368,HIPS HB,-,-,-,NTR,	1	
6		INLAY		
7	AA64-70127F	BADGE-BRAND;AL,SAMSUNG,SILVER,L40,R800,N	1	
8	AA64-10132A	KNOB-POWER;- ,5373,NO-COATING,ABS,HB,BLK	1	
9	AA64-40083A	WINDOW-REMOCON;- ,5373,-,PC,V0,VIOLET,-	1	
10	AA61-60003T	SPRING-CS;- ,SUS304,0.5,OD7,H13.5,N5,-,-,	1	
11	AA63-50097A	GRILLE-WOOFER;- ,5373,PA110,SECC,T0.5,-,-	1	
12	AA64-40183A	INDICATOR-LED;- ,5373,-,ACRYL,-,-,-	1	
13	AA64-10041A	KNOB-CONTROL;- ,5373,-,ABS,HB,BLK	1	
14	AA96-10140B	ASSY-SPEAKER;- ,16OHM,3W,3001-001039,AA39	1	
15	6003-001026	SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR	2	SPK+CF
16	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,-,20~22 INC	4	
17	AA60-10050R	SCREW-ASSY;- ,SWRCH18A,M5,L31.5,HH,+ ,WC,-	4	
18	AA03-10024T	CRT-COLOR;- ,A51KQJ63X(H),+380mG,21,90de	1	CRT+CF
19	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-	1	
20	AA64-30710D	CABINET-BACK;- ,5338.73,-,HIPS,V2,BLK,-,-	1	
21	AA42-00003A	ANT ROD;- ,3S,720mm,ABS,UL/CSA,-	1	
22	6003-001026	SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR	4	CB+CF
23	AA96-20109B	ASSY-POWER,CORD;- ,CP2/NO(4.0),H/C250,KKP	1	

6-6 CS21D8S/NWT



No	Code No	Description;Specification	Q'ty	Remark	
1	AA91-00617B	ASSY CABINET FRONT;DP,21D8 CIS,(SPK)SV90	1		
	AA64-01423E	CABINET FRONT;21D8 CIS,SV907P MDP,HIPS,H	1		
	1-1	AA64-70123B	BADGE-BRAND;AL,R2000,SILVER,L=50,SAMSUNG	1	
	1-2	AA64-01425B	KNOB POWER;21D8,ABS,-,G3676,SV907P,HB,-	1	
	1-3	AA61-60003J	SPRING-CS;- ,SUS304,0.5,OD6,H12,N7,-,-,-	1	
	1-4	AA95-00944B	ASSY-A/V SIDE;;DP - 21D8,KS1A,PAL,MONO A	1	
	1-5	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR	1	AV+CF
	1-6	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
	1-7	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	1	
	1-8	AA64-01011B	INDICATOR LED;29D8,ACRYL,-,CLR,-,-,-	1	
	1-9	AA64-01426B	WINDOW REMOCON;21D8,PC,-,-,-,VOILET,-,-	1	
	1-10	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	WIN+CF
	1-11	AA64-01012B	KNOB CONTROL;29D8,ABS,-,G3676,SV-907P,HB	1	
	1-12	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+CF
2	3001-000274	SPEAKER;5W,8ohm,90dB,160Hz	2		
	1-13	3001-000274	SPEAKER;5W,8ohm,90dB,160Hz	2	
	1-14	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	8	SPK+CF
	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	8		
2	AA03-10024T	CRT-COLOR;- ,A51KQJ63X(H),+380mG,21,90de	1		
	2-1	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20~22 INC	4	
	2-2	AA60-10050R	SCREW-ASSY;- ,SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
3	AA64-01422D	CABINET BACK;21D8,HIPS,V2,BLK	1		
	3-1	AA60-10050T	SCREW-TAPPING;- ,SWRCH18A,M4,L20,RH,+,2S,	4	CB+CF
	3-2	AA96-20109B	ASSY-POWER,CORD;- ,CP2/NO(4.0),H/C250,KKP	1	

6-7 CS21S1S/NWT



No	Code No	Description;Specification	Q'ty	Remark	
1	AA91-00392C	“ASSY CABINET FRONT;DP,21S1 CIS,(SPK)B708	1		
	AA64-31326L	CABINET FRONT;53S1,BK708P PROGUN II,HIPS	1		
	1-1	AA64-70123B	BADGE-BRAND;AL,R2000,SILVER,L=50,SAMSUNG	1	
	1-2	AA64-40515E	DECORATION-FRONT;- ,21S1,KSP213 ML TVI,HI	1	
	1-3	AA64-40513B	WINDOW-REMOCON;- ,50S1,- ,PC,V0,VIOLET,-	1	
	1-4	AA64-10790C	KNOB-POWER;- ,33.50S1,NO-SILK,ABS,HB,M/BR	1	
	1-5	AA61-60003J	SPRING-CS;- ,SUS304,0.5,OD6,H12,N7,-,-,-	1	
	1-6	AA64-40514A	INDICATOR-LED;- ,CT50S1,- ,ACRYL,- ,CLR,-	1	
	1-7	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	1	
	1-8	AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	1	
	1-9	AA95-01048B	ASSY-PCB,A/V FRONT;DP,20S1,KS1A,AA95-000	1	
	1-10	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+,M4,L12,ZPC(YEL)	2	
1-11	AA64-10789A	KNOB-CONTROL;- ,50S1,- ,ABS,HB,M/BROWN	1		
1-12	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	1	KC+CF	
2	AA03-10024T	CRT-COLOR;- ,A51KQJ63X(H),+380mG,21,90de	1		
	2-1	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,- ,20-22 INC	4	
	2-2	AA60-10050R	SCREW-ASSY;- ,SWRCH18A,M5,L31.5,HH,+,WC,-	4	CRT+CF
	2-3	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	8	
	2-4		ASSY-HOLDER,SPK-OPTION		
	2-5	3001-001034	SPEAKER;6W,8ohm,90dB,140Hz	2	
2-6		ASSY-HOLDER,SPK-OPTION			
3	AA64-31327B	CABINET-BACK;- ,53S1,- ,HIPS,V2,BLK,-,-	1		
	3-1	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	6	CB+CF
	3-2	AA42-00003A	ANT ROD;- ,3S,720mm,ABS,UL/CSA,-	1	
4	AA96-20109B	ASSY-POWER,CORD;- ,CP2/NO(4.0),H/C250,KKP	1		

Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
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ASSY CRT

△	1	*	AA94-02410A	ASSY CRT;A36QDT351X,+380mG,15INCH,BEAR,	
	..2		AA27-00002A	MAGNET-CONVERGENCE,-,JH291-SC-OB,29.1MM	
	..2		AA63-60028A	SPACER-DY,-,NEOPRENE,-,-,BLK,-,-,VO W1	
	..2		AA27-00069A	DEFLECTION-YOKE,-,DIF-1592CA,15,ST,2.0mH	
	..2		AA03-00146A	CRT COLOR,-,A36QDT351X,+380mG,15inch,90,	

ASSY CABINET FRONT

	1	*	AA91-00649C	ASSY CABINET FRONT,,15K2,(SPK)SV012P MPP	S.N.A
	..2	KC+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
	..2	KNOPOW	AA61-60003J	SPRING-CS,-,SUS304,0.5,OD6,H12,N7,-,-,-	
	..2	SPK+CF	6003-001022	SCREW-TAPTITE;RH,+B,M3,L12,ZPC(BLK),SWR	
	..2	WIN+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
	..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
	..2		AA96-00652A	ASSY SPEAKER,-,16OHM,3W,3001-001211,200M	S.N.A
	..3		3001-001211	SPEAKER;3W,16OHM,86DB,240HZ	S.N.A
	..3		AA39-20501A	LEAD CONNECTOR-ASSY,,3(2),67096-003,REC,	
	..2		AA64-01697B	DECORATION-POWER;15K2,PC,SEMI-VIOLET	
	..2		AA64-01696B	KNOB CONTROL;15K2,ABS,G3676,SV104M+W971,	
	..2		AA64-01694B	WINDOW REMOCON;15K2,ACRYL,CLR	
	..2		AA64-01693B	KNOB POWER;15K2,ABS,G3676,SV104M+W971,HB	
	..2		AA64-01691D	CABINET FRONT;15K2,SV012P MPP;HIPS,HB,G7	S.N.A
	..2		AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	

ASSY CABINET

	1	*	AA90-00739B	ASSY CABINET;15K2,CS15K2X/BWT	S.N.A
	..2	CB+CF	AA60-10050T	SCREW-TAPPING,-,SWRCH18A,M4,L20,RH,+2S,	
	..2	CB+RJ	AA60-10050T	SCREW-TAPPING,-,SWRCH18A,M4,L20,RH,+2S,	
	..2	CRT	AA60-10050R	SCREW-ASSY,-,SWRCH18A,M5,L31.5,HH,+WC,-	
	..2	D-COIL	AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20-22 INC	
	..2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	
	..2		AA64-01692C	CABINET BACK;15K2,HIPS,V2,BLK	S.N.A

ASSY-POWER,CORD

△	1	*	AA96-20109B	ASSY-POWER,CORD,-,CP2/NO(4.0),H/C250,KKP	
	..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
	..2		AA39-10006X	POWER-CORD,-,KKP419C,KLCE-2F,2.286MT,3P,	
	..2		AA61-20284A	HOLDER,-,P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY ACCESSORY

	1	*	AA94-02746K	ASSY ACCESSORY;CS15K2X/BWT;KS1A,RUSSIA	S.N.A
	..2		AA68-01402A	MANUAL-GOOD WILL LETTER,-,CIS,B5,1PAGE,A/	S.N.A
	..2		AA68-01296A	MANUAL USERS,-,RUS,-,VV/P100(G),-,-,1,-	S.N.A
	..2		AA68-01120A	MANUAL SERVICE,-,CIS,A4,6PAGE(FOLD),W/	
	..2		AA42-00003A	ANT ROD,-,3S,720mm,ABS,UL/CSA,-	
	..2		AA26-90001C	TRANS-MATCHING,-,300ohm/75ohm,PAL,40-890	

REMOCON

	1	*	AA59-00198D	REMOCON,,TM59,DREAM,24,L/GRAY,MONO,NON	
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Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark	Level	Loc. No.	Code No.	Description ; Specification	Remark
.2	CE08	2202-000222	C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP		.2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
.2	CN702	AA39-20461C	LEAD CONNECTOR-ASSY;,11P,YBNH250-11,6709		.2		AA39-10006X	POWER-CORD;-;KKP419C,KLCE-2F2,286MT,3P,	
.2	CN704A	AA39-00094A	LEAD CONNECTOR-ASSY;,3(2)P,YBNH250-03,35		.2		AA61-20284A	HOLDER;-;P-CORD,PPVO,BLK,KE-002	S.N.A
.2	JE601	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO		ASSY CABINET				
.2	JR01	3722-001031	JACK-RCA;3P3.6MM,#18,AU		1	*	AA90-00725F	ASSY CABINET;15K8,CS15K8WX/BWT	S.N.A
.2	LE01	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm		.2	AV+CF	6006-001095	SCREW-ASS'Y TAPT;WPBH,+;M4,L12,ZPC(YEL)	
.2	LE02	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm		.2	CB+CF	AA60-10050T	SCREW-TAPPING;-;SWRCH18A,M4,L20,RH,+;2S,	
.2	LE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		.2	CB+JCK	6003-001026	SCREW-TAPTITE;RH,+;B,M4,L15,ZPC(BLK),SWR	
.2	LE05	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm		.2	CRT+CF	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+;WC,-	
.2	PCB	AA41-00208C	PCB-FRONT AV;S4/C5 MODEL,FR-1,1L,C,1.6T,	S.N.A	.2		AA64-01731C	CABINET BACK;15K8,HIPS,V2,BLK	
.2	RE01	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M		.2		AA64-60385B	INLAY-BACK;50.5366,LINE S/T,PS,TO,3,BLK,	
.2	RE02	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M		.2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	
.2	S-MATE	AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A	.2		AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20-22 INC	
...3		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	S.N.A	ASSY CABINET FRONT				
ASSY-A2,BILINGUAL					1	*	AA91-00619B	ASSY CABINET FRONT;15K8 CIS,(SPK)S012P+	S.N.A
1	*	AA95-00977A	ASSY-A2,BILINGUAL;-;20,21S4,C5,H3,15A9,K		.2	KC+CF	6003-001019	SCREW-TAPTITE;RH,+;B,M4,L12,ZPC(BLK),SWR	
.2	CN702	AA39-00095A	LEAD CONNECTOR-ASSY;,3(2)P,YBNH250-03,35		.2	SPK+CF	6003-001019	SCREW-TAPTITE;RH,+;B,M4,L12,ZPC(BLK),SWR	
.2	CN705	3711-002708	CONNECTOR-HEADER;NOWALL,10P,1R,2.5mm,ANG		.2	WIN+CF	6003-001019	SCREW-TAPTITE;RH,+;B,M4,L12,ZPC(BLK),SWR	
.2	CN706	3711-002706	CONNECTOR-HEADER;NOWALL,8P,1R,2.5mm,ANGL		.2		AA64-01371C	KNOB POWER;15K8,ABS,G3676,SV012P+W971,HB	
.2	CN707	AA39-20055A	LEAD CONNECTOR-ASSY;,6P,YBNH025-06,67096		.2		AA64-01730F	CABINET FRONT;15K8,S012P+B115P CIS S/T,H	S.N.A
.2	ICS01	1204-001817	IC-SOUND PROCESSOR;MSP3400D-C5-G4-LH,DIP	S.N.A	.2		AA64-70127A	BADGE-BRAND;AL,FLAT,SILVER,L=40,SAMSUNG,	
.2	PCB	AA41-00139A	PCB-STEREO/LINE-ST/MTS-M;DREAM-1,1L,FR-1		.2		AA65-00011C	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,NTR,25M	S.N.A
.2	XS01	2801-003903	CRYSTAL-UNIT;18.432MHz,25ppm,28-AAM,12pF		.2		AA96-10137B	ASSY-SPEAKER;-;8OHM,3W,3001-001020,AA39-	
.2		AA99-20091M	ASSY-PCB SUB,AUTO; AA95-00977A V	S.N.A	...3		3001-001020	SPEAKER;3W,8ohm,90dB,140Hz	
...3	CS01	2201-000180	C-CERAMIC,DISC;10nF,10%,50V,Y5V,TP,7x3,5		...3		AA39-20505M	LEAD CONNECTOR-ASSY;,4P,YSH025-04,REC,35	
...3	CS03	2401-002594	C-AL;220uF,20%,16V,GP,TP8x11.5,5		.2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
...3	CS06	2401-001026	C-AL;3.3uF,20%,50V,GP,TP5X11.5		.2		AA64-01370C	KNOB CONTROL;15K8,ABS,G3676,SV012P+W971,	
...3	CS07	2201-000982	C-CERAMIC,DISC;10nF,+80-20%,50V,Y5V,TP4		.2		AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	
...3	CS09	2301-000111	C-FILM,PEF;1.8nF,5%,50V,TP6.5x3.0x5.5mm		.2		AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-,-,-	
...3	CS11	2401-000486	C-AL;10uF,20%,50V,GP,TP,6.3x7mm,5		.2		AA64-00816B	WINDOW REMOCON;-;21A8,-,PC,VO,VIOLET,-	
...3	CS12	2401-000486	C-AL;10uF,20%,50V,GP,TP,6.3x7mm,5		.2		AA64-00818B	INDICATOR LED;-;21A8,-,ACRYL,-,CLR,-	
...3	CS13	2401-000486	C-AL;10uF,20%,50V,GP,TP,6.3x7mm,5		ASSY CRT				
...3	CS14	2401-000486	C-AL;10uF,20%,50V,GP,TP,6.3x7mm,5		△ 1	*	AA94-02410A	ASSY CRT;A36QDT351X,+380mG,15INCH,BEAR,	
...3	CS15	2301-000383	C-FILM,PEF;10nF,5%,50V,TP6x7x3.2mm,5mm		.2		AA27-00002A	MAGNET-CONVERGENCE;-;JH291-SC-0B,29.1MM	
...3	CS16	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11.5		.2		AA63-60028A	SPACER-DY;-;NEOPRENE,-,-,-,BLK,-,-,VO W1	
...3	CS17	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m		.2		AA27-00069A	DEFLECTION-YOKE;-;DIF-1592CA,15,ST,2.0mH	
...3	CS18	2401-001026	C-AL;3.3uF,20%,50V,GP,TP5X11.5		.2		AA03-00146A	CRT COLOR;-;A36QDT351X,+380mG,15inch,90,	
...3	CS19	2401-000027	C-AL;4.7uF,20%,50V,GP,TP5x11.5		ASSY ACCESSORY				
...3	CS20	2201-000472	C-CERAMIC,DISC;0.33nF,5%,50V,SL,TP8.5x3		1	*	AA94-02746C	ASSY ACCESSORY;CS15K8X/BWT;KS1A,RUSSIA	S.N.A
...3	CS21	2401-000027	C-AL;4.7uF,20%,50V,GP,TP5x11.5		.2		AA68-01402A	MANUAL-GOOD WILL LETTER;CIS,B5,1PAGE,A/	S.N.A
...3	CS22	2201-000472	C-CERAMIC,DISC;0.33nF,5%,50V,SL,TP8.5x3		.2		AA68-01296A	MANUAL USERS;-;RUS,-,VV/P100(G),-,-,1,-	S.N.A
...3	CS23	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m		.2		AA68-01120A	MANUAL SERVICE;-;CIS,A4,6PAGE(FOLD),W/	
...3	CS24	2401-000480	C-AL;10uF,20%,50V,GP,TP5x11.5		.2		AA63-00239E	COVER-AV;15K8,HIPS,HB,G4309,SV012P+W971	
...3	CS25	2401-002144	C-AL;47uF,20%,16V,GP,TP5x11.5		.2		AA42-00003A	ANT ROD;-;3S,720mm,ABS,UL/CSA,-	
...3	CS26	2201-000112	C-CERAMIC,DISC;1.5nF,10%,50V,Y5V,TP,5x3.		.2		AA26-90001C	TRANS-MATCHING;-;300ohm/75ohm,PAL,40-890	
...3	CS27	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,		REMOCON				
...3	CS28	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP1.		1	*	AA59-00198B	REMOCON;TM59,DREAM,29,L/GRAY,STEREO,N	
...3	CS29	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NP0,TP		ASSY-POWER,CORD				
...3	CS30	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NP0,TP		△ 1	*	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	
...3	CS35	2301-000111	C-FILM,PEF;1.8nF,5%,50V,TP6.5x3.0x5.5mm						
...3	ICS02	1203-000515	IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL						
...3	LS01	2701-000184	INDUCTOR-AXIAL;4.7uH,10%,2.5x3.4mm						
...3	LS03	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm						
...3	LS04	2701-000184	INDUCTOR-AXIAL;4.7uH,10%,2.5x3.4mm						
...3	RS01	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS02	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS03	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS04	2001-000290	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS06	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS07	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS08	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS09	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS14	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM						
...3	RS15	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM						
.2		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	S.N.A					



Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
..2	JE601	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
..2	LE01	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm	
..2	PCB	AA41-10903B	PCB-A/V FRONT;S15A,1L,FR-1,245x245x1.6T,	S.N.A
..2	RE01	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2,4X6.4M	
..2	RE02	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2,4X6.4M	
..2	RE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
..2	S-MATE	AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A
...3		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	S.N.A

ASSY-POWER,CORD

	1	*	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	
..2			3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
..2			AA39-10006X	POWER-CORD;-;KKP419C,KLCE-2F,2.286MT,3P,	
..2			AA61-20284A	HOLDER;-;P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY-SKD

1	*	AA97-00978G	ASSY-SKD;-;CS2073S/BWT,KS1A,RUSSIA	S.N.A
..2	CLAMP	AA65-30111A	CLAMP-WIRE;NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A
..2	LC801S	AA27-20003Y	COIL-DEGAUSSING;-;20,15.2ohm,28T,L2170,E	
..2		AA65-30109A	CLAMP-FBT;NYLON-66,V2,BLK,-;-	S.N.A
..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2		AA65-30018A	CLAMP-WIRE;NYLON-66,-;-DATL-600,DONG-A,	S.N.A
..2		AA65-30009A	CLAMP-FBT;ABS,V0,BLK,-;-	S.N.A

ASSY-CRT

	1	*	AA97-00415A	ASSY-CRT;AA03-10029W,+380mG,A48KRD82X(H)	S.N.A
..2			AA63-60028A	SPACER-DY;-;NEOPRENE,-;-;BLK,-;-;V0 W1	
..2			AA27-50004W	DEFLECTION-YOKE;-;DSE-1992LL(1H),PCL,A48	
..2			AA27-00002A	MAGNET-CONVERGENCE;-;JH291-SC-OB,29.1MM	
..2			AA03-10029W	CRT-COLOR;-;A48KRD82X(H),+380mG,20,90de	

ASSY CABINET FRONT

1	*	AA91-00691B	ASSY CABINET FRONT;DP;5073,(SPK) BK708P	S.N.A
..2	KNOPOW	AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-;-	
..2		AA64-40044B	WINDOW-REMOCON;-;5073,-;PC,V0,VIOLET,-	S.N.A
..2		AA64-70127F	BADGE-BRAND;AL,SAMSUNG,SILVER,L40,R800,N	
..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2		AA96-10140A	ASSY-SPEAKER;-;16ohm3W,00003,AA320501C,R	
...3		3001-000003	SPEAKER;3W,16ohm,88dB,180+-36Hz	
...3		AA39-20501C	LEAD CONNECTOR-ASSY;-;3(2)P;67096-003,REC	S.N.A
..2		AA61-40007A	STOPPER-PCB;5038.5368,HIPS HB,-;-;NTR,	S.N.A
..2		AA63-50095A	GRILLE-WOOFER;-;5073,PA110 P10.6,SECC,T0	
..2		AA64-00233C	CABINET-FRONT;-;5073,BK708P MLN,HIPS,HB,	
...3		AA61-40010A	BOSS-WING;-;HIPS,-;-;NTR,HB	
..2		AA64-10131A	KNOB-POWER;-;5073,-;ABS,HB,BLK	

ASSY CABINET

1	*	AA90-00100F	ASSY CABINET;5073,CS2073S/BWT	S.N.A
..2	CB+CF	6003-001026	SCREW-TAPTITE;RH,+;B,M4,L15,ZPC(BLK),SWR	
..2	CRT+CF	AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+;WVC,-	
..2	KC+CF	6003-001019	SCREW-TAPTITE;RH,+;B,M4,L12,ZPC(BLK),SWR	
..2	PA+CF	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+;M4,L12,ZPC(YEL)	
..2		AA64-40182A	INDICATOR-LED;-;5073,-;ACRYL,-;-	
..2		AA64-10040A	KNOB-CONTROL;DP;5073,AA64-10039A,-;-	
...3		AA64-10039A	KNOB-CONTROL;-;5073,-;ABS,HB,BLK	
..2		AA64-30376N	CABINET-BACK;DP;5038,64-30375D,V2,-;-	
...3		AA64-30375D	CABINET-BACK;-;5038.73,-;HIPS,V2,BLK,-;-	
..2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-;-	

Level	Loc. No.	Code No.	Description ; Specification	Remark
..2		AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-;20-22 INC	

ASSY PACKING

1	*	AA92-00365C	ASSY PACKING;CS2173C/NWT,KS1A	S.N.A
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ASSY ACCESSORY

1	*	AA97-00977G	ASSY ACCESSORY;-;CS2073S/BWT,KS1A,RUSSIA	S.N.A
..2		AA68-01296A	MANUAL USERS;-;-;RUS,-;W/P100(G)-;-;1,-	S.N.A
..2		AA68-01120A	MANUAL SERVICE;-;-;CIS,A4,6PAGE(FOLD),W/	
..2		AA63-00261B	COVER-JACK;2139,HIPS,-;HB,BLK,BK708P,-	
..2		AA42-00003A	ANT ROD;-;3S,720mm,ABS,UL/CSA,-	
..2		AA26-90001C	TRANS-MATCHING;-;300ohm/75ohm,PAL,40-890	

REMOCON

1	*	AA59-00198D	REMOCON;-;TM59,DREAM,24,L/GRAY,MONO,NON	
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Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
..2	JE601	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
..2	LE01	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm	
..2	PCB	AA41-10903B	PCB-A/V FRONT;S15A,1L,FR-1,245x245x1.6T,	S.N.A
..2	RE01	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2.4X6.4M	
..2	RE02	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2.4X6.4M	
..2	RE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
..2	S-MATE	AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A
...3		0202-000187	SOLDER-WIRE FLUX;-;RS60S,D1.2,63Sn/37Pb	S.N.A

ASSY-POWER,CORD

△	1	*	AA96-20109B	ASSY-POWER,CORD;-;CP2/NO(4.0),H/C250,KKP	
..2			3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
..2			AA39-10006X	POWER-CORD;-;KKP419C,KLCE-2F,2.286MT,3P,	
..2			AA61-20284A	HOLDER;-;P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY-SKD

	1	*	AA97-00978G	ASSY-SKD;-;CS2073S/BWT,KS1A,RUSSIA	S.N.A
△	..2	CLAMP	AA65-30111A	CLAMP-WIRE;NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A
	..2	LC801S	AA27-20003Y	COIL-DEGAUSSING;-;20,15.2ohm,28T,L2170,E	
	..2		AA65-30109A	CLAMP-FBT;NYLON-66,V2,BLK,-;-	S.N.A
	..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
	..2		AA65-30018A	CLAMP-WIRE;NYLON-66,-;-D,ATL-600,DONG-A,	S.N.A
	..2		AA65-30009A	CLAMP-FBT;ABS,V0,BLK,-;-	S.N.A

ASSY-CRT

△	1	*	AA97-00415A	ASSY-CRT;AA03-10029W,+380mG,A48KRD82X(H)	S.N.A
..2			AA63-60028A	SPACER-DY;-;NEOPRENE,-;-;BLK,-;-;V0 W1	
..2			AA27-50004W	DEFLECTION-YOKE;-;DSE-1992LL(1H),PCL,A48	
..2			AA27-00002A	MAGNET-CONVERGENCE;-;JH291-SC-OB,29.1MM	
..2			AA03-10029W	CRT-COLOR;-;A48KRD82X(H),+380mG,20,90de	

ASSY CABINET FRONT

	1	*	AA91-00691B	ASSY CABINET FRONT;DP;5073,(SPK) BK708P	S.N.A
..2	KNOPOW		AA61-60003J	SPRING-CS;-;SUS304,0.5,OD6,H12,N7,-;-	
..2			AA64-40044B	WINDOW-REMOCON;-;5073,-;PC,V0,VIOLET,-	S.N.A
..2			AA64-70127F	BADGE-BRAND;AL,SAMSUNG,SILVER,L40,R800,N	
..2			AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2			AA96-10140A	ASSY-SPEAKER;-;16ohm3W,00003,AA320501C,R	
...3			3001-000003	SPEAKER;3W,16ohm,88dB,180+-36Hz	
...3			AA39-20501C	LEAD CONNECTOR-ASSY;-;3(2)P;67096-003,REC	S.N.A
..2			AA61-40007A	STOPPER-PCB;5038.5368,HIPS HB,-;-;NTR,	S.N.A
..2			AA63-50095A	GRILLE-WOOFER;-;5073,PA110 P10.6,SECC,T0	
..2			AA64-00233C	CABINET-FRONT;-;5073,BK708P MLN,HIPS,HB,	
...3			AA61-40010A	BOSS-WING;-;HIPS,-;-;NTR,HB	
..2			AA64-10131A	KNOB-POWER;-;5073,-;ABS,HB,BLK	

ASSY CABINET

	1	*	AA90-00100F	ASSY CABINET;5073,CS2073S/BWT	S.N.A
..2	CB+CF		6003-001026	SCREW-TAPTITE;RH,+;B,M4,L15,ZPC(BLK),SWR	
..2	CRT+CF		AA60-10050R	SCREW-ASSY;-;SWRCH18A,M5,L31.5,HH,+;WC,-	
..2	KC+CF		6003-001019	SCREW-TAPTITE;RH,+;B,M4,L12,ZPC(BLK),SWR	
..2	PA+CF		6006-001095	SCREW-ASSY TAPT;WP,BH,+;M4,L12,ZPC(YEL)	
..2			AA64-40182A	INDICATOR-LED;-;5073,-;ACRYL,-;-	
..2			AA64-10040A	KNOB-CONTROL;DP;5073,AA64-10039A,-;-	
...3			AA64-10039A	KNOB-CONTROL;-;5073,-;ABS,HB,BLK	
..2			AA64-30376N	CABINET-BACK;DP;5038,64-30375D,V2,-;-	
...3			AA64-30375D	CABINET-BACK;-;5038.73,-;HIPS,V2,BLK,-;-	
..2			AA65-30008A	CLAMP-CORD;PE,HB,BLK,-;-	

Level	Loc. No.	Code No.	Description ; Specification	Remark
..2		AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-;20-22 INC	

ASSY PACKING

1	*	AA92-00365C	ASSY PACKING;CS2173C/NWT,KS1A	S.N.A
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ASSY ACCESSORY

1	*	AA97-00977G	ASSY ACCESSORY;-;CS2073S/BWT,KS1A,RUSSIA	S.N.A
..2		AA68-01296A	MANUAL USERS;-;-;RUS,-;W/P100(G)-;-;1,-	S.N.A
..2		AA68-01120A	MANUAL SERVICE;-;-;CIS,A4,6PAGE(FOLD),W/	
..2		AA63-00261B	COVER-JACK;2139,HIPS,-;HB,BLK,BK708P,-	
..2		AA42-00003A	ANT ROD;-;3S,720mm,ABS,UL/CSA,-	
..2		AA26-90001C	TRANS-MATCHING;-;300ohm/75ohm,PAL,40-890	

REMOCON

1	*	AA59-00198D	REMOCON;-;TM59,DREAM,24,L/GRAY,MONO,NON	
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Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
.2	CN702	AA39-20112E	LEAD CONNECTOR-ASSY;9P;YBNH025-09,67096	
.2	JA702	3722-000506	JACK-RCA;2P;3.6MM,-,AG	
.2	JE601	3722-000143	JACK-PHONE;1P(VER);3.4mm,AG,BLK,NO	
.2	LE01	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm	
.2	PCB	AA41-10903B	PCB-A/V FRONT;S15A,1L,FR-1,245x245x1.6T,	S.N.A
.2	RE01	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2.4X6.4M	
.2	RE02	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP2.4X6.4M	
.2	RE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
.2	S-MATE	AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A
...3		0202-000187	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb	S.N.A

ASSY-SKD

1	*	AA97-00979F	ASSY-SKD;CS2173S/BWT,KS1A,RUSSIA		
△	.2	CLAMP	AA65-30111A	CLAMP-WIRE;NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A
	.2	LC801S	AA27-20003Z	COIL-DEGAUSSING;-21,13.5ohm,25T,L2380,E	
	.2		AA65-30109A	CLAMP-FBT;NYLON-66,V2,BLK,-,-,-	S.N.A
	.2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
	.2		AA65-30018A	CLAMP-WIRE;NYLON-66,-,DATL-600,DONG-A,	S.N.A
	.2		AA65-30009A	CLAMP-FBT;ABS,V0,BLK,-,-,-	S.N.A

ASSY CRT

△	1	*	AA97-01085A	ASSY CRT;AA03-10024T,+380mG,A51KQJ63X(H)	
	.2		AA63-60028A	SPACER-DY;-NEOPRENE,-,-,-,BLK,-,-,V0 W1	
	.2		AA27-50005K	DEFLECTION-YOKE;-CDY-S2192M,ST-3,A51KQJ	
	.2		AA27-00002A	MAGNET-CONVERGENCE;-JH291-SC-OB,29.1MM	
	.2		AA03-10024T	CRT-COLOR;-A51KQJ63X(H),+380mG,21,90de	

ASSY-POWER,CORD

△	1	*	AA96-20109B	ASSY-POWER,CORD;-CP2/NO(4.0),H/C250,KKP	
	.2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
	.2		AA39-10006X	POWER-CORD;-KKP419C,KLCE-2F,2.286MT,3P,	
	.2		AA61-20284A	HOLDER;-P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY CABINET

1	*	AA90-00061S	ASSY CABINET;5373,CS2173S/BWT	
.2	CB+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
.2	CB+RCA	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
.2	CRT+CF	AA60-10050R	SCREW-ASSY;-SWRCH18A,M5,L3L5,HH,+WVC,-	
.2	KC+CF	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR	
.2	PA+CF	6006-001095	SCREW-ASS'Y TAPT;WP,BH,+M4,L12,ZPC(YEL)	
.2		AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,20-22 INC	
.2		AA64-10042A	KNOB-CONTROL;DP;5373,AA64-10041A,-,-,-	
...3		AA64-10041A	KNOB-CONTROL;-5373,-,ABS,HB,BLK	
.2		AA64-30378D	CABINET-BACK;DP;5373,AA64-30710D V2,-,-	
...3		AA64-30710D	CABINET-BACK;-5338.73,-,HIPS,V2,BLK,-,-	
.2		AA64-40083A	WINDOW-REMOCON;-5373,-,PC,V0,VIOLET,-	S.N.A
.2		AA64-40183A	INDICATOR-LED;-5373,-,ACRYL,-,-,-	
.2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	

ASSY CABINET FRONT

1	*	AA91-00545A	ASSY CABINET FRONT;DP;5373,(SPK) 64-0023	
.2	KNOPOW	AA61-60003T	SPRING-CS;-SUS304,0.5,OD7,H13.5,N5,-,-,	S.N.A
.2	SPK+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
.2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
.2		AA64-70127F	BADGE-BRAND;AL,SAMSUNG,SILVER,L40,R800,N	
.2		AA96-10140B	ASSY-SPEAKER;-16OHM,3W,3001-001039,AA39	
...3		3001-001039	SPEAKER;3W,16ohm,90dB,180Hz	S.N.A
...3		AA39-20501C	LEAD CONNECTOR-ASSY;-3(2)P67096-003,REC	S.N.A

Level	Loc. No.	Code No.	Description ; Specification	Remark
.2		AA64-10132A	KNOB-POWER;-5373,NO-COATING,ABS,HB,BLK	
.2		AA61-40007A	STOPPER-PCB;5038.5368,HIPS HB,-,-,-,NTR,	S.N.A
.2		AA63-50097A	GRILLE-WOOFER;-5373,PA110,SECC,T0.5,-,-	
.2		AA64-00234F	CABINET-FRONT;-5373,BK708P MLN,HIPS,HB,	
...3		AA61-40010A	BOSS-WING;-HIPS,-,-,-,NTR,HB	

ASSY PACKING

1	*	AA92-00365C	ASSY PACKING;CS2173C/NWT,KS1A	S.N.A
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ASSY ACCESSORY

1	*	AA97-00977F	ASSY ACCESSORY;CS2173S/BWT,KS1A,RUSSIA	
.2		AA68-01296A	MANUAL USERS;-,-,RUS,-,VV/P100(G),-,-,1,-	S.N.A
.2		AA68-01120A	MANUAL SERVICE;-,-,CIS,A4,6PAGE(FOLD),VV/	
.2		AA63-00261B	COVER-JACK;2139,HIPS,-,HB,BLK,BK708P,-	
.2		AA42-00003A	ANT ROD;-3S,720mm,ABS,UL/CSA,-	
.2		AA26-90001C	TRANS-MATCHING;-300ohm/75ohm,PAL,40-890	

REMOCON

1	*	AA59-00198D	REMOCON;TM59,DREAM,24,L/GRAY,MONO,NON	
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Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-A/V SIDE				
1	*	AA95-00944B	ASSY-A/V SIDE,,DP - 21D8,KS1A,PAL,MONO A	
..2	CE01	2401-001840	C-AL;100uF,20%,16V,GP,TP6,3x11.5	
..2	CE04	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	CE07	2202-000222	C-CERAMIC,MLC-AXIAL;3.3nF,20%,16V,Y5P,TP	
..2	CN702	AA39-20461C	LEAD CONNECTOR-ASSY,,11P,YBNH250-11,6709	
..2	JE601	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
..2	JR01	3722-001282	JACK-RCA;2P(3P),3.2mm,AU,BLK,-	
..2	LE01	2701-000158	INDUCTOR-AXIAL;22uH,10%,2.5x3.4mm	
..2	LE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
..2	PCB	AA41-00393A	PCB-SIDE AV;CS21D8,FR-1,1L,A,1.6T,245x24	S.N.A
..2	RE01	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M	
..2	RE02A	2001-001153	R-CARBON(S);470HM,5%,1/2W,AA,TP,2.4X6.4M	
..2		AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A
...3		0202-000187	SOLDER-WIRE FLUX,-,RS60S,D1.2,63Sn/37Pb	S.N.A

ASSY-CRT

	1	*	AA97-00215A	ASSY-CRT;A51KQJ63X(H),+380MG,21,BARE,-	S.N.A
..2			AA63-60028A	SPACER-DY,-,NEOPRENE,-,-,BLK,-,-,V0 W1	
..2			AA27-50004K	DEFLECTION-YOKE,-,DST-2192ML(H1),ST-3,A5	
..2			AA27-00002A	MAGNET-CONVERGENCE,-,JH291-SC-OB,29.1MM	
..2			AA03-10024T	CRT-COLOR,-,A51KQJ63X(H),+380mg,21,90de	

ASSY-SKD

1	*	AA97-00978B	ASSY-SKD,,CS2139S/AST;KS1A,KAZAHSTAN	
..2	CLAMP	AA65-30018A	CLAMP-WIRE;NYLON-66,-,DATL-600,DONG-A,	S.N.A
..2	LC801S	AA27-00143A	COIL DEGAUSSING,,35T,90HM,21INCH,220V,20	
..2		AA65-30111A	CLAMP-WIRE;NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A
..2		AA65-30018A	CLAMP-WIRE;NYLON-66,-,DATL-600,DONG-A,	S.N.A
..2		AA65-30009A	CLAMP-FBT;ABS,V0,BLK,-,-,-	S.N.A

ASSY-POWER,CORD

	1	*	AA96-20109B	ASSY-POWER,CORD,-,CP2/NO(4.0),H/C250,KKP	
..2			3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
..2			AA39-10006X	POWER-CORD,-,KKP419C,KLCE-2F,2.286MT,3P,	
..2			AA61-20284A	HOLDER,-,P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY CABINET

1	*	AA90-00691K	ASSY CABINET;21D8,CS21D8C/NWTT	
..2	AV+CF	6002-000522	SCREW-TAPPING;TH,+2,M4,L15,ZPC(BLK),SWR	
..2	BACK	AA60-00091A	SPACER-FELT,-,FELT,150X10,-,BLK,T0.35,	S.N.A
..2	CB+CF	AA60-10050T	SCREW-TAPPING,-,SWRCH18A,M4,L20,RH,+2S,	
..2	CB+JCK	AA60-10050T	SCREW-TAPPING,-,SWRCH18A,M4,L20,RH,+2S,	
..2	CRT+CF	AA60-10050R	SCREW-ASSY,-,SWRCH18A,M5,L31.5,HH,+WVC,-	
..2	KC+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
..2		AA63-60004K	SPACER-GUM,CRT,-,NTR RUBBER,-,-,BLK,T2	S.N.A
..2		AA64-01465A	KNOB CONTROL;DP,29D8,-,-,-,AA64-01012B,-	S.N.A
...3		AA64-01012B	KNOB CONTROL;29D8,ABS,-,G3676,SV-907P;HB	
..2		AA64-01796B	CABINET BACK;DP,21D8,AA64-01422D(10.3KG)	
...3		AA64-01422D	CABINET BACK;21D8,HIPS,V2,BLK	
..2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	
..2		AA65-30107A	CLAMP-D;COIL;NYLON 66,V2,NTR,-,20-22 INC	

ASSY CABINET FRONT

1	*	AA91-00617B	ASSY CABINET FRONT;DP,21D8 CIS,(SPK)SV90	
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Level	Loc. No.	Code No.	Description ; Specification	Remark
..2	POWER	AA61-60003J	SPRING-CS,-,SUS304,0.5,OD6,H12,N7,-,-,-	
..2	SPK+CF	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR	
..2	WIN+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
..2		AA64-70123B	BADGE-BRAND;AL,R2000,SILVER,L=50,SAMSUNG	
..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2		AA96-10146C	ASSY SPEAKER,-,8ohm,5W,3001-000274,350/7	S.N.A
...3		3001-000274	SPEAKER;5W,8ohm,90dB,160Hz	
...3		AA39-20505M	LEAD CONNECTOR-ASSY,,4P,YSH025-04,REC,35	
..2		AA64-01426B	WINDOW REMOCON;21D8,PC,-,-,-,VOILET,-,-	
..2		AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	
..2		AA64-01011B	INDICATOR LED;29D8,ACRYL,-,CLR,-,-,-	S.N.A
..2		AA64-01309K	INLAY AV;PS SHEET,21D8,T0.3,S15A MONO S	
..2		AA64-01423E	CABINET FRONT;21D8 CIS,SV907P MDPHIPS,H	
..2		AA64-01425B	KNOB POWER;21D8,ABS,-,G3676,SV907P;HB,-	

ASSY PACKING

1	*	AA92-00365G	ASSY PACKING;CS2085C/NWT;KS1A	S.N.A
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ASSY ACCESSORY

1	*	AA97-00976D	ASSY ACCESSORY,,CS2CD8C/NWT;KS1A,LITHUAI	
..2		AA68-01010A	MANUAL USERS,-,-,B5,-,W/P100(G),-,-,1,-	
..2		AA68-01120A	MANUAL SERVICE,-,-,CIS,A4,6PAGE(FOLD),W/	
..2		AA42-00003A	ANT ROD,-,3S,720mm,ABS,UL/CSA,-	
..2		AA26-90001C	TRANS-MATCHING,-,300ohm/75ohm,PAL,40-890	

REMOCON

1	*	AA59-00198D	REMOCON,,TM59,DREAM,24,L/GRAY,MONO,NON	
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Electrical Parts List

Level	Loc. No.	Code No.	Description ; Specification	Remark
ASSY-PCB,A/V FRONT				
1	*	AA95-01048B	ASSY-PCB,A/V FRONT;DP,20S1,KS1A,AA95-000	
..2	CE06	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
..2	CN702	AA39-20070A	LEAD CONNECTOR-ASSY;;7P,YBNH025-07,67096	
..2	JA702	3722-000506	JACK-RCA;2P,3.6MM,-,AG	
..2	PCB	AA41-10903B	PCB-A/V FRONT;S15A,1L,FR-1,245x245x1.6T,	S.N.A
..2	RE04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
..2	S-MATE	AA98-60001Z	ASSY-SUB,PART;SCT11D,A/V FRONT,PAL,-	S.N.A
...3		0202-000187	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb	S.N.A

ASSY-SKD

1	*	AA97-00978L	ASSY-SKD;;CS21S1S/NWT,KS1A,UKRAINE		
△	..2	CLAMP	AA65-30018A	CLAMP-WIRE,NYLON-66,-,DATL-600,DONG-A,	S.N.A
	..2	LC801S	AA27-00143A	COIL DEGAUSSING;35T,90HM,21INCH,220V,20	
	..2		AA65-30111A	CLAMP-WIRE,NYLON,V0,WHT,1T 15MM,ALL MODE	S.N.A
	..2		AA65-30018A	CLAMP-WIRE,NYLON-66,-,DATL-600,DONG-A,	S.N.A
	..2		AA65-30009A	CLAMP-FBT;ABS,V0,BLK,-,-,-	S.N.A

ASSY CRT

△	1	*	AA97-01085A	ASSY CRT;AA03-10024T,+380mG,A51KQJ63X(H)	
	..2		AA63-60028A	SPACER-DY;;NEOPRENE,-,-,-,BLK,-,-,V0 W1	
	..2		AA27-50005K	DEFLECTION-YOKE;-,-,CDY-S2192M,ST-3,A51KQJ	
	..2		AA27-00002A	MAGNET-CONVERGENCE;-,-,JH291-SC-0B,29.1MM	
	..2		AA03-10024T	CRT-COLOR;-,-,A51KQJ63X(H),+380mG,21,90de	

ASSY-POWER,CORD

△	1	*	AA96-20109B	ASSY-POWER,CORD;-,-,CP2/NO(4.0),H/C250,KKP	
	..2		3811-000401	WIRE-PVC CU;BCWA,300V,ROLL,17/0.16mm,#22	S.N.A
	..2		AA39-10006X	POWER-CORD;-,-,KKP419C,KLCE-2F,2.286MT,3P,	
	..2		AA61-20284A	HOLDER;-,-,P-CORD,PPVO,BLK,KE-002	S.N.A

ASSY CABINET

1	*	AA90-00801A	ASSY CABINET;21S1,CS21S1S/NWT	
..2	CB+CF	6002-000514	SCREW-TAPPING;RH,+2,M4,L15,ZPC(BLK),SWR	S.N.A
..2	CB+RCA	6002-000514	SCREW-TAPPING;RH,+2,M4,L15,ZPC(BLK),SWR	S.N.A
..2	CRT+CF	AA60-10050R	SCREW-ASSY;-,-,SWRCH18A,M5,L3L5,HH,+WVC,-	
..2	KC+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
..2	PA+CF	6006-001095	SCREW-ASSY TAPT;WP,BH,+M4,L12,ZPC(YEL)	
..2		AA64-00095E	KNOB CONTROL;DP,33.50.53S1,-,-,-,AA64-10	
...3		AA64-10789A	KNOB-CONTROL;-,-,50S1,-,ABS,HB,M/BROWN	
..2		AA64-00563G	CABINET BACK;DP,21S1,AA64-31327B,V2	
...3		AA64-31327B	CABINET-BACK;-,-,53S1,-,HIPS,V2,BLK,-,-	
..2		AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	
..2		AA65-30107A	CLAMP-D,COIL;NYLON 66,V2,NTR,-,-,20-22 INC	

ASSY CABINET FRONT

1	*	AA91-00392C	ASSY CABINET FRONT;DP,21S1 CIS,(SPK)B708	
..2	KNOPOW	AA61-60003J	SPRING-CS;-,-,SUS304,0.5,OD6,H12,N7,-,-,-	
..2	SPK+CF	6003-001026	SCREW-TAPTITE;RH,+B,M4,L15,ZPC(BLK),SWR	
..2		AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
..2		AA64-70123B	BADGE-BRAND;AL,R2000,SILVER,L=50,SAMSUNG	
..2		AA64-40515E	DECORATION-FRONT;-,-,21S1,KSP213 ML TVI,HI	
..2		AA64-40514A	INDICATOR-LED;-,-,CT50S1,-,ACRYL,-,CLR,-	
..2		AA96-00163B	ASSY SPEAKER;-,-,8ohm,6W,3001-001034,350/7	
...3		3001-001034	SPEAKER;6W,8ohm,90dB,140Hz	

Level	Loc. No.	Code No.	Description ; Specification	Remark
...3		AA39-20505M	LEAD CONNECTOR-ASSY;;4P,YSH025-04,REC,35	
..2		AA61-40113A	STOPPER-PCB;501H,HIPS,-,-,HB,NTR,-	
..2		AA63-50356A	GRILLE-WOOFER;-,-,53S1,-,SECC,T0.5,BLK,-	
..2		AA64-10790C	KNOB-POWER;-,-,33.50S1,NO-SILK,ABS,HB,M/BR	
..2		AA64-31326L	CABINET FRONT;53S1,BK708P PROGUN II,HIPS	
..2		AA64-40513B	WINDOW-REMOCON;-,-,50S1,-,PC,V0,VIOLET,-	S.N.A

ASSY-PACKING

1	*	AA92-90001D	ASSY-PACKING;S15,F3	S.N.A
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ASSY ACCESSORY

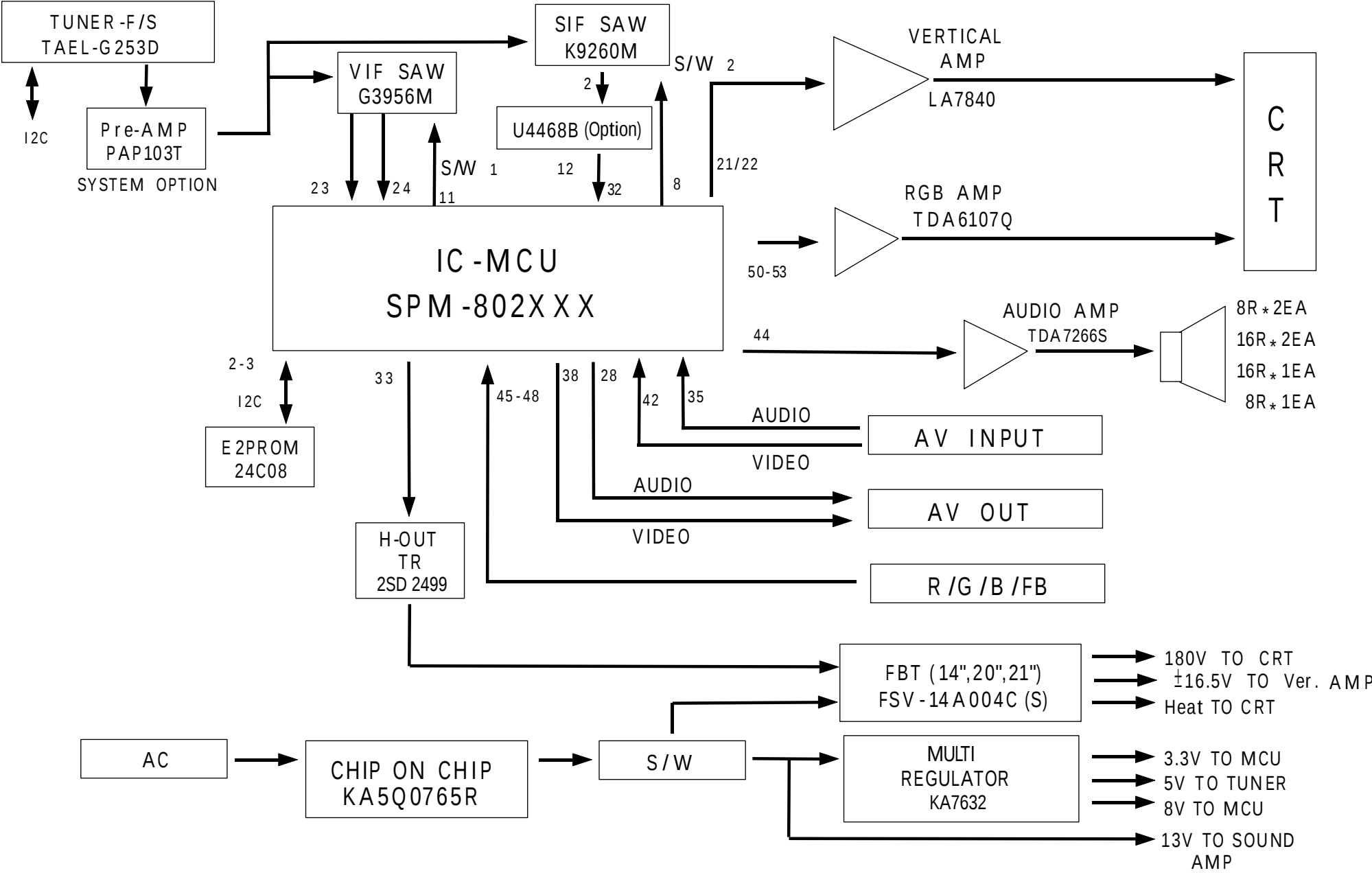
1	*	AA97-00977L	ASSY ACCESSORY;;CS21S1S/NWT,KS1A,UKRAINE	
..2		AA68-01120A	MANUAL SERVICE;-,-,CIS,A4,6PAGE(FOLD),W/	
..2		AA68-01010A	MANUAL USERS;-,-,B5,-,W/P100(G),-,-,1,-,	
..2		AA42-00003A	ANT ROD;-,-,3S,720mm,ABS,UL/CSA,-	
..2		AA26-90001C	TRANS-MATCHING;-,-,300ohm/75ohm,PAL,40-890	

REMOCON

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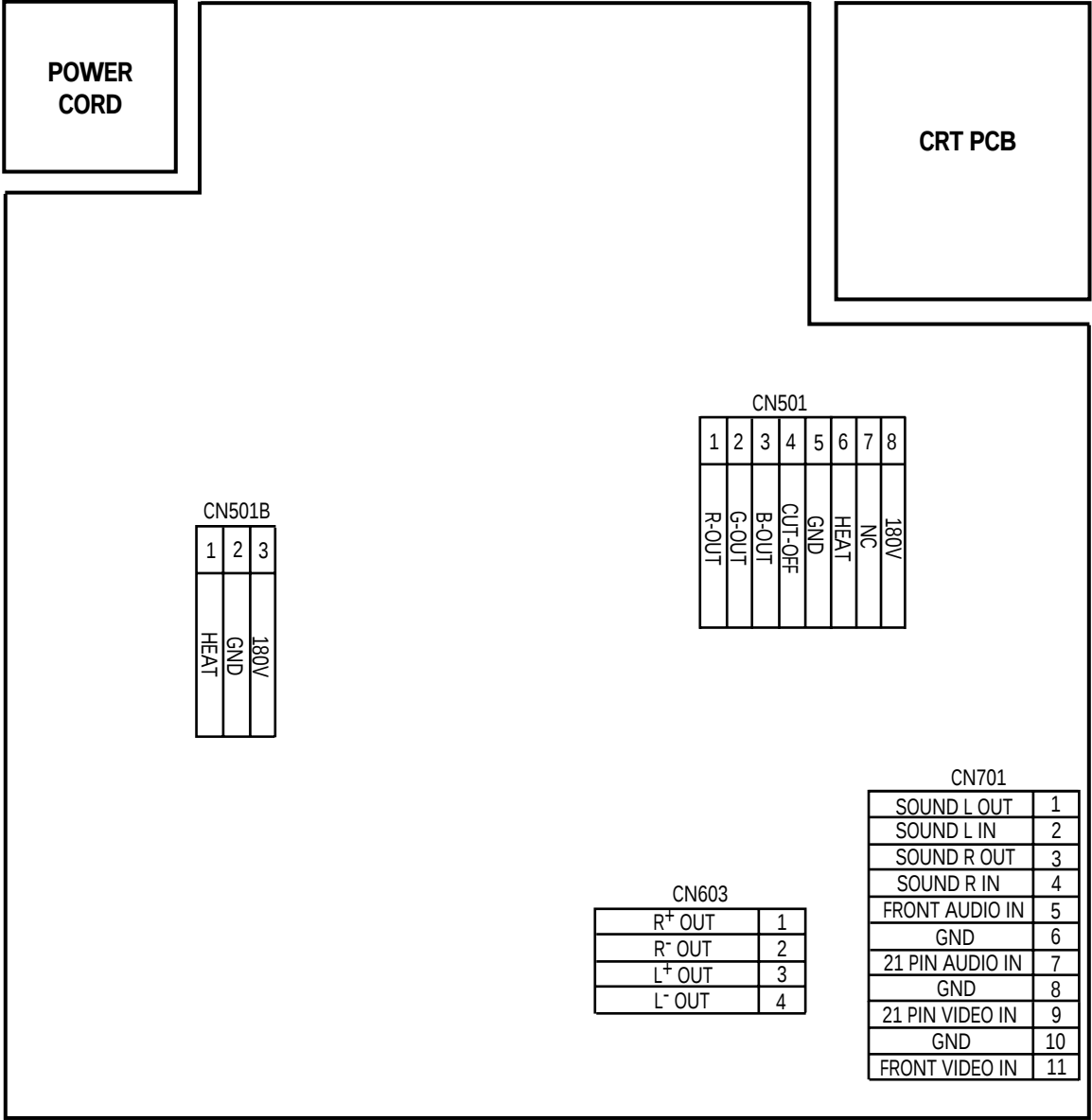
8. Block Diagram

8-1 KS1A



9. Wiring Diagram

9-1 KS1A



MEMO

TP01	TP02	TP03
TP04	TP05	TP06
TP07	TP08	TP09
TP10	TP11	TP12
TP13	TP14	

10-1

10-3 SOUND, EXT-A/V (SCART)

