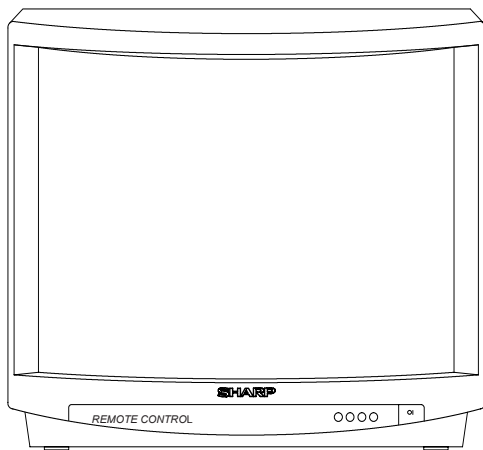


**SHARP****SERVICE MANUAL**

SESG51GT25S00

Issued: 15th Nov '00

**GA-1 CHASSIS**

PAL SYSTEM COLOUR TELEVISION

**MODEL 51GT-25S**

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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**SHARP CORPORATION**

This document has been published to be used for after sales service only.

<b>SERVICE MANUAL UPDATE LOG SHEET</b>				
<b>Technical Report # Technical Bulletin #</b>	<b>Cause / Solution</b>	<b>Part #</b>	<b>Page #</b>	<b>Application Data /Serial #</b>

Use this page to keep any special servicing information as Thecnical Report (Bulletin), Technical Information, etc.  
If only part number changes are required, just change part number directly on Part List Section.  
If you need more information, please refer to the Technical Report (Bulletin).

## ELECTRICAL SPECIFICATIONS

- Power Input .....220V-240 Volts AC 50Hz
- Power Consumption
  - Normal Operation.....54W
  - Stand-by Operation.....7.0W
- Audio Power Output Rating .....4W (MPO)
- Speaker.....16Ω 4W, 10cm Round, 1pc
- Convergence.....Self Converging System
- Focus.....Bi-Potencial Electrostatic
- Sweep Deflection.....Magnetic
- Picture Intermediate Frecuency.....38.9MHz
- Sound Carrier Trap.....33.4MHz
- Adjacent Sound Carrier Trap.....40.4MHz
- Adjacent Picture Carrier Trap.....31.9MHz
- Aerial Input Impedance
  - VHF/UHF.....75 ohm Unbalanced
- Tuning Ranges .....48.25MHz thru 855.25 MHz
  - VHF.....CH02-CH12, S41-S41
  - UHF..... CH21-CH69

### •White Level

Set the brightness control, with no signal connected, so that the CRT cathode current is 600mA. The maximum correction applied to each cathode current to achieve a screen temperature of 8550 degrees K-1 MPCD should not exceed 15% of its original value.

**X=0.290**

**Y=0.300**

Specifications are subject to change without prior notice.

### WARNING

The chassis in this receiver is partially live, always use an isolation transformer when servicing this chassis.

To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

## IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out maintenance and repair of this receiver.

### SERVICING OF HIGH VOLTAGE SYSTEM AND CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the receiver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it **MUST** be replaced with the correct type for continued safe working
- **DO NOT** lift the CRT by its neck.
- When handling the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

### X-RAY

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

1. When undertaking any servicing on this chassis, **DO NOT** increase the EHT to more than 29 KV, (at a instantaneous beam current of 1100 $\mu$ A).
2. Ensure that during normal operation the EHT does not exceed 26KV $\pm$ 1.5KV (at a beam current of 1000 $\mu$ A). This level has been pre-set in the factory. Always check that this level has not been exceeded after carrying out any repair..
3. **DO NOT** replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

### BEFORE RETURNING THE RECEIVER TO THE CUSTOMER

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.
2. Ensure that all protective devices are in good condition. These will include non-metallic control knobs, insulating fish papers, cabinets backs, compartment covers or shields, mechanical insulators, etc.

# SERVICE ADJUSTMENT

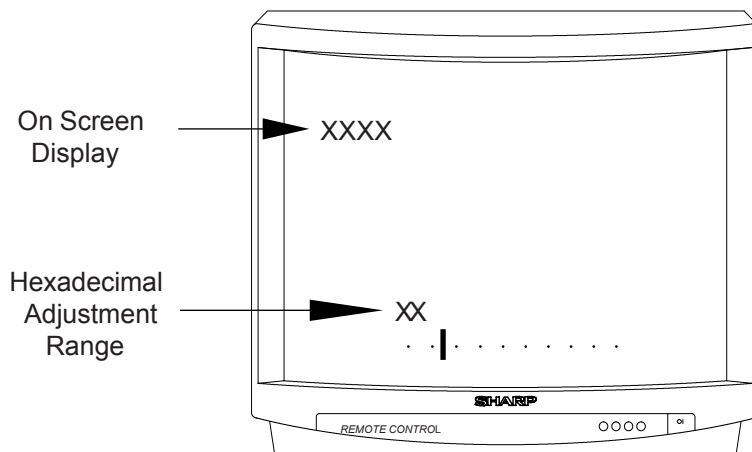
## •SERVICE MODE FUNCTION

1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press the volume down and channel up buttons on the front of the receiver at the same time.
5. Keeping these buttons pressed, turn the mains on.
6. When the set starts up it will be in service mode.
7. Release the two buttons.

- Use the channel up and down buttons to move between the options.
- Use the volume control buttons to change the data.
- The data is stored automatically when the service mode is exited or at switch off.
- To exit the service mode, press the standby or menu button on the remote control.

On Screen Display	Hexadecimal Adjustment Range	Function
-SERV-		Indicates operative Service Mode
AGC	00~ 3F	Auto Gain Control
AFT	00 ~ 7F	Auto Frequency Control
H-SHIFT	00 ~ 3F	Horizontal Shift
V-SHIFT	00 ~ 3F	Vertical Shift
V-AMPL	00 ~ 3F	Vertical Amplitude
V- SLOP	00 ~ 3F	Vertical Symmetry
S-CORR	00 ~ 3F	S Correction
Y-DLY	00 ~ 3F	Luminance/Chrominance Delay
GAIN R	00 ~ 3F	Red Gain
GAIN G	00 ~ 3F	Green Gain
GAIN B	00 ~ 3F	Blue Gain
NVM	00 ~ FF	NVM Data Change

To ensure correct operation of the AFT, this must be adjusted to 40.



## Adjustment of Data within the NVM memory

To access the NVM memory, press the channel up button on the remote control until the NVM setting is reached. Note that the NVM address is shown in green and the NVM value is shown in red.

Each of the NVM values are stored as a hexadecimal code, each code comprises of two hexadecimal numbers. Each of these numbers will break down into bit four binary code as in the example below.

Hex code	<b>A</b>	<b>5</b>
Binary code	1010	0101
Button on remote to toggle Bit	7654	3210

In the example given above, the hexadecimal code is A5, the binary equivalent is 1010 0101. The remote control button to toggle each bit on or off (1 or a 0) is shown below the binary code. Therefore to change this to A6, remote control buttons 1 then 0 would have to be pressed.

NVM LIST DESCRIPTION			
PAGE	ADDRESS	DESCRIPTION	VALUE
0	00	RTEMP: TEMPERATURE RED	15
	01	GTEMP: TEMPERATURE GREEN	18
	02	BTEMP: TEMPERATURE BLUE	0E
	03	VSHIFT: VERTICAL SHIFT	22
	04	HSHIFT: HORIZONTAL SHIFT	22
	05	VTAMP: VERTICAL AMPLITUDE	0A
	06	VSLOPE: VERTICAL SLOPE	12
	07	Y_DELAY: LUMA DELAY	08
	08	Y_DELAY_S: LUMA DELAY SECAM	08
	09	S_CORR: S-CORRECTION	00
	0A	E_CAG: CAG ADJUSTEMENT VALUE	0A
	0B	EA_OPT: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	0C	EAFT: AFT ADJ FOR B/G & L SYSTEMS	40
	0D	EAFT_: AFT ADJ FOR L' SYSTEMS	1F
	0E	EVOLMAX: MAX. VOLUME LIMIT	FF
	0F	CHECKSUM: SIGNATURE	A5
	10	RTEMP2: TEMPERATURE RED	15
	11	GTEMP2: TEMPERATURE GREEN	18
	12	BTEMP2: TEMPERATURE BLUE	0E
13	VSHIFT2: VERTICAL SHIFT	22	
14	HSHIFT2: HORIZONTAL SHIFT	22	
15	VTAMP2: VERTICAL AMPLITUDE	0A	
16	VSLOPE2: VERTICAL SLOPE	12	
17	Y_DELAY2: LUMA DELAY	08	
18	Y_DELAY_S2: LUMA DELAY SECAM	08	

PAGE	ADDRESS	DESCRIPTION	VALUE
0	19	S_CORR2: S-CORRECTION	00
	1A	E_CAG2: CAG ADJUSTEMENT VALUE	0A
	1B	EA_OPT2: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	1C	EAFT2: AFT ADJ FOR B/G & L SYSTEMS	40
	1D	EAFT2_L: AFT ADJ FOR L' SYSTEMS	1F
	1E	EVOLMAX2: MAX. VOLUME LIMIT	FF
	1F	CHECKSUM: SIGNATURE	A5
	20	RTEMP3: TEMPERATURE RED	15
	21	GTEMP3: TEMPERATURE GREEN	18
	22	BTEMP3: TEMPERATURE BLUE	0E
	23	VSHIFT3: VERTICAL SHIFT	22
	24	HSHIFT3: HORIZONTAL SHIFT	22
	25	VTAMP3: VERTICAL AMPLITUDE	0A
	26	VSLOPE3: VERTICAL SLOPE	12
	27	Y_DELAY3: LUMA DELAY PAL	08
	28	Y_DELAY_S3: LUMA DELAY SECAM	08
	29	S_CORR3: S-CORRECTION	00
	2A	E_CAG3: CAG ADJUSTEMENT VALUE	0A
	2B	EA_OPT3: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	2C	EAFT3: AFT ADJ FOR B/G & L SYSTEMS	40
	2D	EAFT3_L: AFT ADJ FOR L' SYSTEMS	1F
	2E	EVOLMAX3: LMAX. VOLUME LIMIT	FF
	2F	CHECKSUM: SIGNATURE	A5
	30	FT1_I_NVM-T1_I_NVM-1: LENGTH TABLE	FF
	31	CHECKSUM: SIGNATURE 1	A5
	32	EAGING,AGING_ON (AGING MODE)	FF
	33	VOLOFFSET: VOLUME OFFSET	05
	34	EAVOL: VOLUME VALUE (DECIMAL)	02
	35	CONT: CONTRAST	33
	36	COLOR: COLOR SATURATION	17
	37	BRIGHT: BRIGHTNESS	1F
	38	LUPK: 0,0,P5,P4,P3,P2,P1,P0 LUMA PEAKING VALUE LUPK	22
	39	E_P_ACT: CURRENT PROGRAMME	01
	3A	E_START: TV STATUS	00

PAGE	ADDRESS	DESCRIPTION	VALUE
0	3B	N_HUE: HUE CORRECTION	07
	3C	CONT2: CONTRAST	33
	3D	COLOR2: COLOR SATURATION	17
	3E	BRIGHT: BRIGHTNESS	1F
	3F	LUPK2: 0,0,0,0,0,P2,P1,P3 LUMA PEAKING VALUE LUPK	22
	40	DK_OPTION: OPTION FOR DK SYSTEM [X X X X X X DK_S]	00
	41	HCR1_NVM: END OF HORIZONTAL CLAMP PULSE	13
	42	OSD_WORD: OSD STATUS (1=RT/0=OT,1=NO WHITE BARS IN MENU CLOCK-D.C.-,PIN OPTION,R830-D.C.-, FRONT LOCK,AV LOCK, E_NORMALIZADO PICTURE)	09
	43	OP_TXT_SYS: TELETEx SYSTEMS OPTIONS (X X X X X FLOF TOP)	02
	44	HCR0_NVM: BEGINING OF HORIZONTAL CLAMP PULSE.	00
	45	EVTH_L: L-L' VOLTAGE	1F
	46	EVTL_L: L-L' VOLTAGE	1F
	47	SDV0_TXT: VERTICAL SYNC DELAY FOR TXT.	1E
	48	S_SPEED: SEARCH SPEED FOR ALL BANDS	0F
	49	SU_SPEED: SEARCH SPEED FOR UHF	5 A
	4A	SVL_SPEED: SEARCH SPEED FOR VHL	0F
	4B	SVH_SPEED: SEARCH SPEED FOR VHH	3C
	4C	L_RANGE: RESERVED	2F
	4D	EPSW: PASSWORD ACTIV	00
	4E	EPSW1: PASSWORD 1R DIGIT	00
	4F	EPSW2: PASSWORD 2S DIGIT	00
	50	EPSW3: PASSWORD 3R DIGIT	00
	51	EPSW4: PASSWORD 4S DIGIT	00
	52	LANGUAGE: CHARACTER SET (FOR TXT)	01
	53	OSD_WORD1: bit 0: SIZE OSD PROG: 0=14", 1=21" bit 1: TIMING FOR OSD ON SCREEN bit 2: CHARACTER SET FOR TXT ENABLED (MENU)	01
	54	HOTEL: FOR HOTEL MODE 2 : FRONTAL BUTTONS DISABLED, SWITCH ON WITH SSW PULSE	00
	55	IFS_SCRT: CONTROL FOR IFS IN SCART MODE.	01
	56	HOTEL2: HOTEL MODE FOR S.E.I.S. VCR CONSTANT FOR ALL PROGRAMS	00
	57	B_CONTROL2: OSO,VSD,CB,BLS,BKS,CS1,CS0,BB	9 A
	58	B_CONTROL3: HOB,BPS,ACL,CMB,AST,CL2,CL1,CL0	24
	59	V_ZOOM: VERTICAL ZOOM	0D
	5 A	V_SCROLL: VERTICAL SCROLL	20
	5B	B_CONTROL0: INA,INB,INC,CCC_D,FOA,FOB,XA,XB	1 A
	5C	B_CONTROL1: FORF,FORS,DL,STB,POC,CM2,CM1,CM0	C0
	5D	B_CONTROL5: EVG,HCO,LBM,VID,STM,NCIN,VIM,AKB	26
	5E	B_CONTROL6: IFS,AFW,IE_1,COR,RBL,MAT,PRD,SBL	3C
	5F	B_CONTROL7: 0,0,0,HBL,GAI,IE_2,DS,DSA	00
60	V_SCCON: SANDCASTLE CONTROL REGISTER	00	
61~ FF	RESERVED	---	
1	00 ~ 9F	RESERVED	---
	A0	PAGE MEMORY FOR LIST MODE PROGRAM 0	10
	A1		02
	A2		00
	A3		30
	A4		04
	A5		00

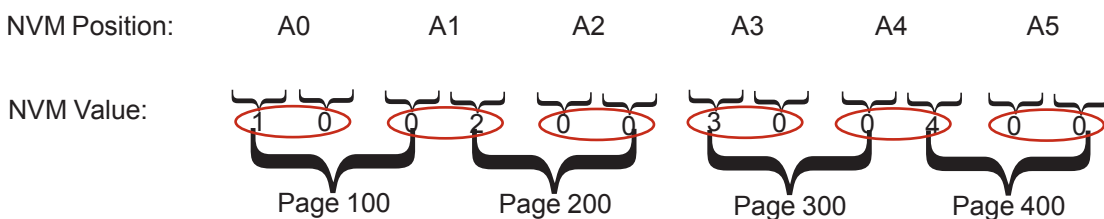


PAGE	ADDRESS	DESCRIPTION	VALUE
1	A6	PAGE MEMORY FOR LIST MODE PROGRAM 1	10
	A7		02
	A8		00
	A9		30
	AA		04
	AB		00
	AC		10
	AD	02	PAGE MEMORY FOR LIST MODE PROGRAM 2
	AE	00	
	AF	30	
	B0	04	
	B1	00	
	B2	10	
	B3	02	
	B4	00	PAGE MEMORY FOR LIST MODE PROGRAM 3
	B5	30	
	B6	04	
	B7	00	
	B8	10	
	B9	02	
	BA	00	
	BB	30	
	BC	04	
	BD	00	
	BE	10	
	BF	02	
	C0	00	PAGE MEMORY FOR LIST MODE PROGRAM 5
	C1	30	
	C2	04	
	C3	00	
	C4	10	
	C5	02	
C6	00	PAGE MEMORY FOR LIST MODE PROGRAM 6	
C7	30		
C8	04		
C9	00		
CA	10		
CB	02		
CC	00		PAGE MEMORY FOR LIST MODE PROGRAM 7
CD	30		
CE	04		
CF	00		
D0 ~ FF	RESERVED	FF	

#### DEFAULT LIST MODE PAGES MEMORIZATION NOTE:

In page memory for LIST MODE, every digit is written in one nibble (4 bits).  
The default values for programs 0~7 are as follows: 100, 200, 300, 400.

Example: Program 0



## •PIF/AGC Adjustment

### 1. AFT Adjustment

AFT must be adjusted to a fixed value of 40.

### 2. RF-AGC Cut-In Adjustment (I2C BUS)

1. Receive the «COLOUR BAR» signal (Channel E-12). Signal strength: 57 dB $\mu$ V.
2. Enter into Service Mode.
3. Push CH  $\wedge$  until AGC appears on screen.
4. Push  $\bigcirc$   $\square$  key of R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

## •GEOMETRY ADJUSTMENT PROCEDURE

### 1. HOR SHIFT

- a) Receive Philips pattern signal.
- b) When  $\triangleleft$   $\wedge$  button is pressed, picture moves to the left.
- c) When  $\triangleright$   $\wedge$  button is pressed, picture moves to the right.
- d) Adjust the horizontal location to obtain picture centering (Fig.1).

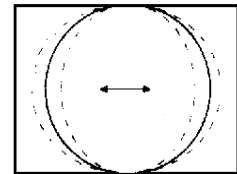


Fig. 1

### 2. VERT SHIFT

- a) Receive Philips pattern signal.
- b) When  $\triangleleft$   $\wedge$  button is pressed, picture moves up.
- c) When  $\triangleright$   $\wedge$  button is pressed, picture moves down.
- d) Adjust the vertical location to obtain picture centering (Fig.2).

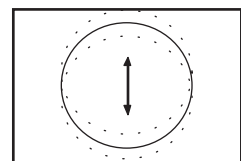


Fig. 2

### 3. VERT AM

- a) Receive Philips pattern signal.
- b) When  $\triangleleft$   $\wedge$  button is pressed, vertical size of picture increases.
- c) When  $\triangleright$   $\wedge$  button is pressed, vertical size of picture decreases.
- d) Adjust the vertical size to obtain picture overscan (Fig.3).

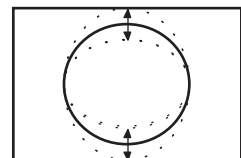


Fig. 3

### 4. VERT SLOP

- a) Receive Philips pattern signal.
- b) When  $\triangleleft$   $\wedge$  button is pressed, upper picture scanning decreases and lower picture scanning increases.
- c) When  $\triangleleft$   $\triangleright$  button is pressed, upper picture scanning increases and lower picture scanning decreases.
- d) Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (Fig.4).

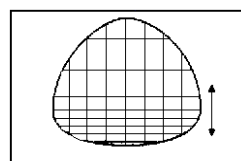


Fig. 4

## •Screen Adjustment

### 3. Focus Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive Philips pattern signal to a level between 60 and 80 dB $\mu$ V.
3. Set contrast to 10/10, brightness to 5/10 and colour 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

### 4. G2 Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive the «MONOSCOPE» pattern signal to a level between 60 and 80 dB $\mu$ V.
3. Enter into Service Mode. Press the TEXT key of R/C and set to level.
4. Set to the point where the raster disappears on the screen VR of FBT.
5. Check BKGD. If it is necessary adjust BKGD according to instructions detailed in the next page.

## •COLOUR ADJUSTMENT PROCEDURES

### 1. Y-DLY

- Receive Philips pattern signal.
- When  $\triangleleft \wedge$  button is pressed, luma phase delays.
- When  $\vee \triangleleft$  button is pressed, chroma phase delays.
- Adjust the chroma-luma delay.

### 2. «B-GAIN», «G-GAIN», «R-GAIN»

- Adjust G2.
- Tune a white pattern
- Adjust colour to minimum.
- Position colourmeter in the center of screen.
- Using brightness and contrast buttons, select a luminance of »120 nits.
- Operate again in Service Mode and select location R-GAIN and B-GAIN to obtain colour coordinates:

$$X = 0.290 \pm 0.015$$

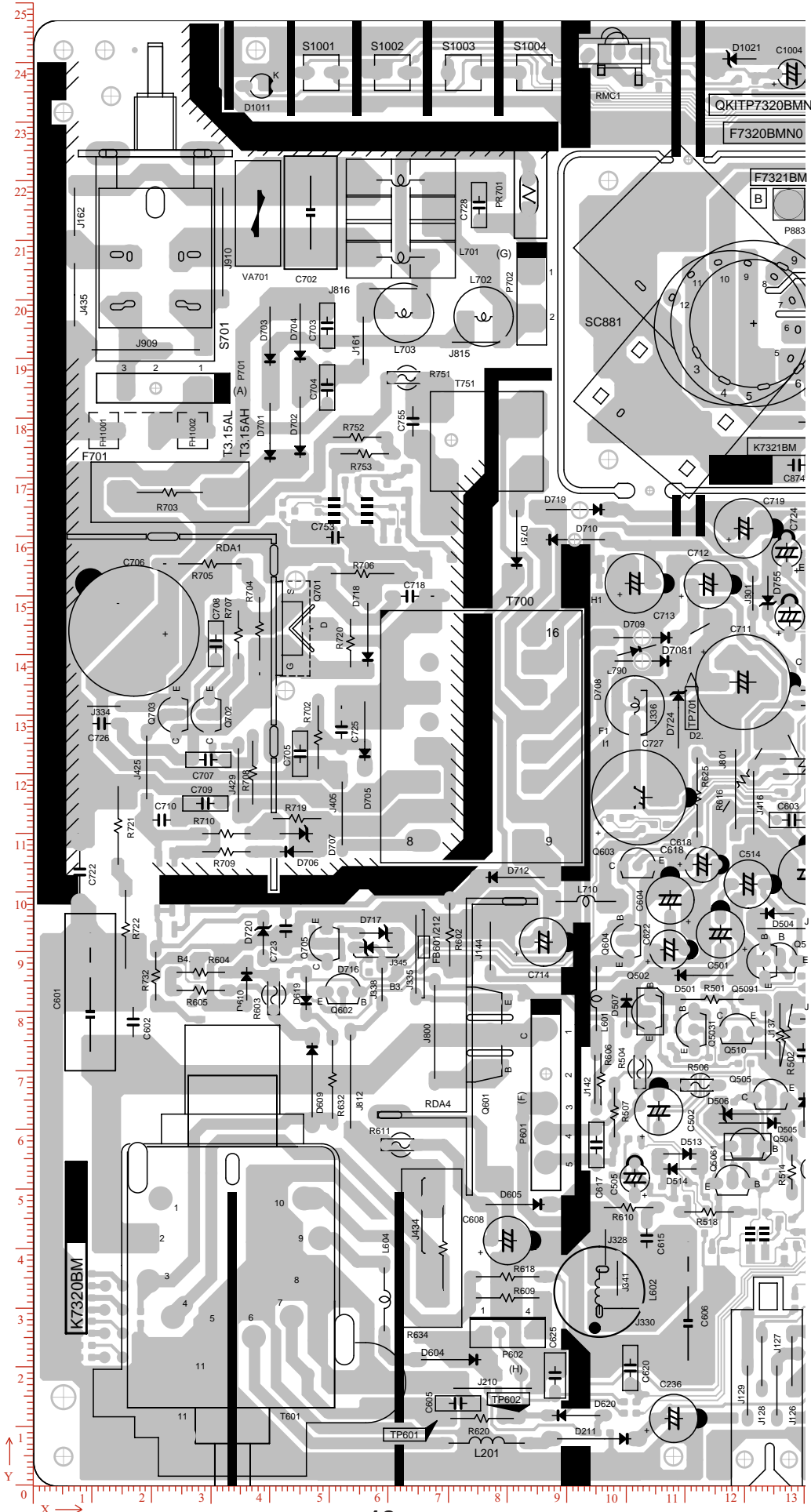
$$Y = 0.300 \pm 0.015$$

- Exit Service Mode and check colour coordinates «X» and «Y» at 20 and 120 nits. It may be necessary to repeat the same procedure or re-adjust the cuts as show the be below one.

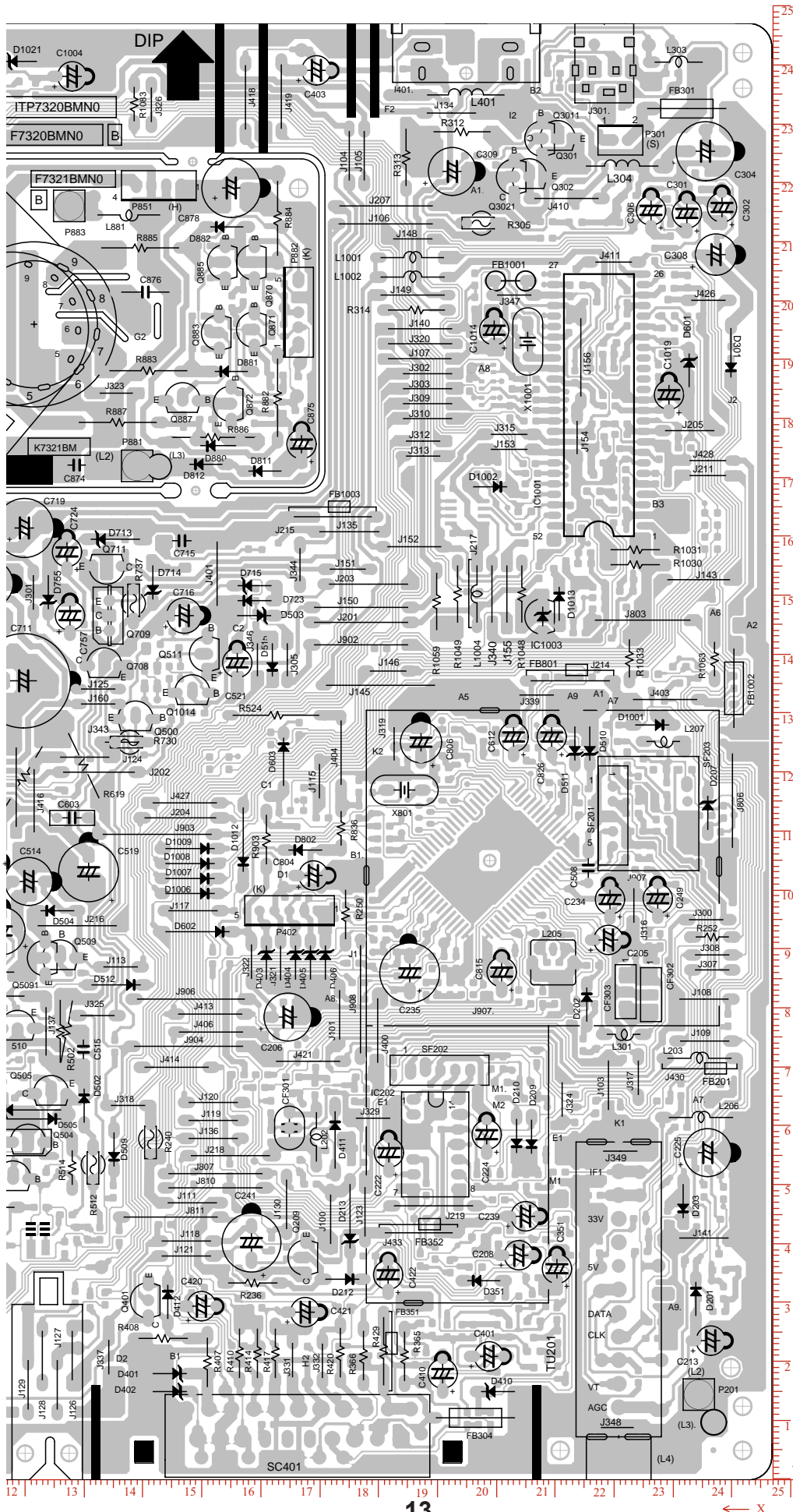
**NOTE:** Locations «R» alter «X» coordinates; «G» alter «Y» coordinates; «B» alter «X» and «Y» coordinates.

### MEMO


F 7320NB PRINTED WIRING BOARD. Components side.

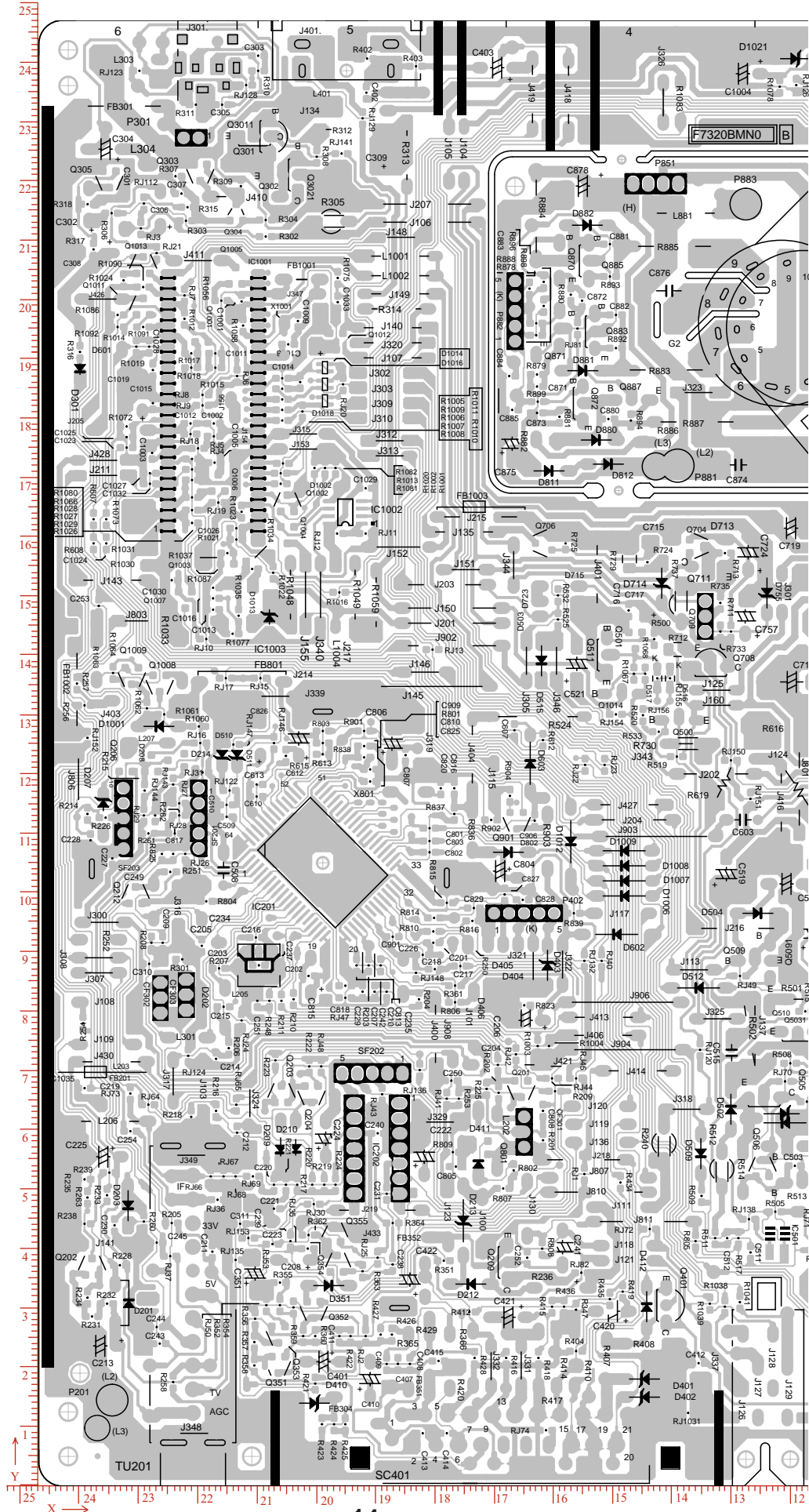


# F 7320NOB PRINTED WIRING BOARD. Components side.

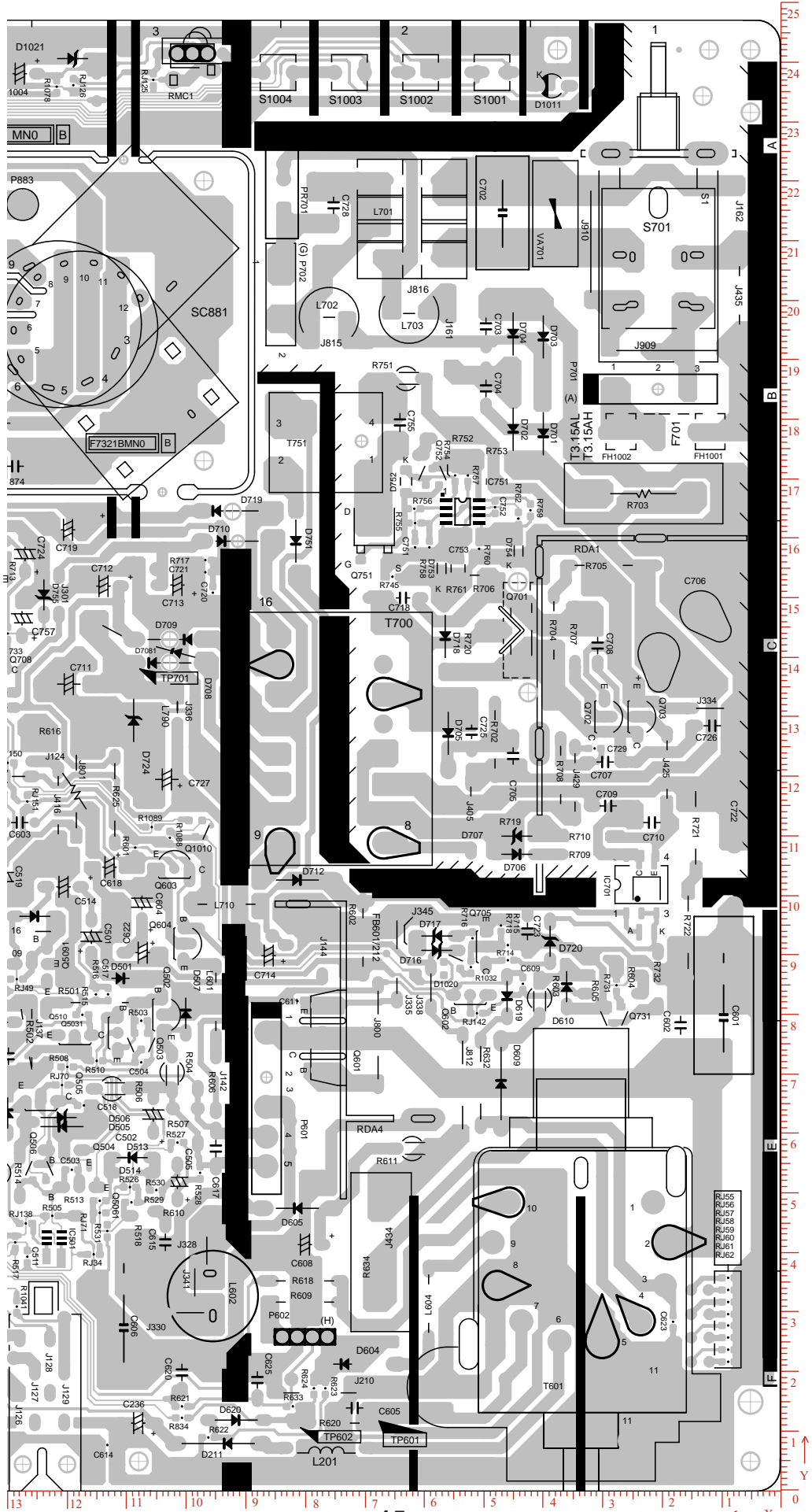


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F 7320NOB PRINTED WIRING BOARD. Copper side.



F 7320NOB PRINTED WIRING BOARD. Copper side.



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## F7320N0B PWB PARTS ALLOCATION TABLES (component side):

Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm
(L3)	142748	171831	C422	181737	34798	C804	169037	102489	D507	100076	80264	F701	19304	177927	J136	152019	57912
(L3).	237109	9779	C501	115951	93091	C806	187325	125095	D509	135128	56007	FB1001	202565	203327	J137	123571	76073
(L4)	229362	6223	C502	105537	63246	C815	201041	86106	D510	216027	124841	FB1002	240538	134239	J140	187198	195199
A1	215773	132207	C505	101473	51943	C826	209550	125984	D511	213487	124841	FB1003	164846	164973	J141	235458	41021
A1.	198755	218821	C508	215773	103759	C874	128778	172085	D512	135509	83947	FB201	228854	69723	J142	94996	68580
A2	241300	145034	C514	120650	101473	C875	167005	175641	D513	109093	56007	FB301	232537	232537	J143	234569	152654
A5	196596	134112	C515	129921	73025	C876	140462	201422	D514	109093	53467	FB304	196596	10541	J144	77089	91059
A6	237236	145288	C519	130809	103124	C878	155067	219075	D515	162052	139065	FB351	182372	14605	J145	180467	134747
A7	218059	131191	C521	156083	138557	CF301	164973	59690	D601	232918	188214	FB352	180213	43307	J146	181737	137160
A7.	236601	64262	C601	9525	79502	CF302	226441	82296	D602	149352	92964	FB601/	65913	82296	J148	185928	210439
A8	195961	188595	C602	16764	78232	CF303	222123	82804	D603	163957	121793	FB801	205232	137287	J149	185928	200914
A8.	170053	81407	C603	128016	112268	D1	163957	100584	D604	70485	21336	FH1001	8636	181102	J150	177165	147955
A9	212471	131191	C604	107442	98806	D1001	226695	128016	D605	81280	47498	FH1002	23749	180975	J151	174879	154432
A9.	229489	31496	C605	71628	13970	D1002	199136	168402	D609	46990	68453	G2	139065	196596	J152	186182	158242
B1	143256	20574	C606	110490	27432	D1006	148082	99441	D610	35941	84709	H1	96520	146558	J153	202311	174752
B1.	174498	104013	C608	80010	41402	D1007	148082	101981	D619	45974	83058	H2	168021	16510	J154	213868	176784
B2	205105	233553	C612	203073	125984	D1008	148082	104521	D620	91567	11938	I1	95377	123063	J155	201930	150241
B3	227584	163576	C615	103505	41783	D1009	148082	107061	D701	39878	177546	I2	205105	231013	J156	214503	190373
B3.	61341	86487	C617	94996	57531	D1011	38481	235966	D702	44958	178308	IC1001	217551	182245	J160	132461	131572
B4.	27559	88773	C618	112903	104775	D1012	157099	108585	D703	39878	193802	IC1003	208026	146431	J161	55626	193040
C1	161544	115951	C620	100711	19939	D1013	210820	148590	D704	44958	194310	IC202	189865	56896	J162	6858	214757
C1004	128016	237998	C622	107315	90424	D1021	119126	240538	D705	55880	127254	IC701	22479	99822	J2	238252	181610
C1014	199771	194945	C625	88011	18669	D2	139192	20828	D706	44323	106934	J1	177038	91694	J201	177165	145415
C1019	229489	184023	C702	46736	214630	D2.	113411	128016	D707	44323	109982	J100	171958	44196	J202	132588	120015
C2	153924	144272	C703	49530	195580	D201	234061	30734	D708	102743	139065	J101	173482	78867	J203	178435	151892
C205	219202	91567	C704	49530	185166	D202	215519	80645	D709	102870	143002	J103	219202	66929	J204	146431	112268
C206	164719	78486	C705	44958	123444	D203	231902	47244	D710	91440	159512	J104	175133	224536	J205	233045	177927
C208	203962	38100	C706	16891	144145	D207	236093	113157	D712	81280	102616	J105	177673	224536	J207	181356	216027
C213	236601	23622	C707	29464	122428	D209	206121	58166	D713	135382	159512	J106	181356	212979	J210	77470	16510
C222	181864	55499	C708	30734	141986	D210	203581	58293	D714	141732	152146	J107	187198	190119	J211	236093	170307
C224	198501	58547	C709	28956	115062	D211	94615	8001	D715	159004	151638	J108	235458	81534	J214	212725	135509
C225	236093	55499	C710	21590	112268	D212	173990	34036	D716	57785	90805	J109	235585	74422	J215	172339	163322
C234	219456	98425	C711	119761	135509	D213	175260	44704	D717	57785	93218	J111	148463	46990	J216	128905	93980
C235	185420	85979	C712	113919	151968	D301	240030	191135	D718	56388	143510	J113	136271	86995	J217	196850	142621
C236	108077	11430	C713	101473	152146	D351	197993	33782	D719	91440	164592	J115	170053	118491	J218	154940	54991
C239	205105	44704	C714	86106	91694	D401	144653	18034	D720	38735	92329	J117	148590	96520	J219	189484	46482
C241	158496	40259	C715	146685	159258	D402	144653	14986	D723	159004	149098	J118	147447	40513	J300	235839	94996
C249	227584	98552	C716	147066	146558	D403	161036	87757	D724	108839	129413	J119	152019	60960	J301	121412	150495
C301	232537	214757	C718	63500	149987	D404	165989	87757	D751	81534	159512	J120	152019	64008	J301.	218490	246989
C302	238506	215773	C719	119888	161417	D405	168529	87757	D755	123952	150495	J121	147447	37973	J302	188468	187579
C304	235712	225298	C722	7747	103505	D406	171069	87757	D802	167640	106807	J123	177800	45466	J303	188468	185039
C306	226441	215265	C723	42545	93980	D410	200406	14986	D811	160782	171069	J124	130174	122555	J305	164592	139065
C308	237490	207772	C724	127127	157353	D411	172720	57658	D812	150749	172212	J125	132461	134112	J307	236855	86487
C309	192659	221869	C725	51943	127508	D412	144272	30226	D880	152781	176276	J126	128016	21082	J308	236855	89027
C351	210439	35814	C726	11430	128524	D501	113157	86106	D881	155067	187960	J127	125476	16129	J309	188468	182499
C401	198882	20955	C727	102235	116078	D502	130048	63500	D882	154305	212471	J128	122936	21082	J310	188468	179959
C403	169545	239014	C728	75184	215900	D503	159004	146558	E1	211328	54864	J129	120523	16129	J312	187706	176149
C410	191008	18034	C753	50927	159893	D504	125476	96520	E1.	182880	63246	J130	164465	46736	J313	187706	173609
C420	149987	29464	C755	64008	179451	D505	120904	61976	F1	98552	124968	J134	192532	231775	J315	202311	177292
C421	167640	28448	C757	127635	146558	D506	120904	61976	F2	181991	234823	J135	175133	160782	J316	223520	97409



## F7320N0B PWB PARTS ALLOCATION TABLES (component side):

Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm
J317	224282	68199	J430	229108	67818	P201	234569	14478	R1049	193548	150241	R707	34544	143510
J318	137541	63500	J433	186944	41910	P301	221234	227203	R1059	189992	148971	R708	36957	120269
J319	182753	124841	J434	67183	45593	P402	164973	96520	R1063	237236	139192	R709	32512	106934
J320	187198	192659	J435	6858	200787	P601	86487	64516	R1083	138557	233299	R710	32512	109982
J321	163449	87630	J800	67691	76581	P602	80010	25908	R236	158750	33401	R719	44450	112522
J322	158496	87884	J801	118491	117475	P701	20574	185039	R240	141351	57785	R720	53467	142113
J323	135509	184277	J803	225044	145796	P702	84074	200787	R250	174498	95885	R721	14224	111379
J324	211328	64516	J806	240284	115189	P851	142748	219456	R252	236855	92075	R722	15494	93853
J325	132334	78740	J807	152400	51943	P881	139065	171958	R305	197612	213106	R730	137795	125095
J326	141478	233172	J810	152400	49530	P882	166497	197993	R312	194310	228600	R732	20574	85979
J328	96520	40386	J811	144780	44577	P883	127508	216027	R313	184785	224282	R737	138430	148590
J329	179197	61341	J812	53467	68199	PR701	83566	217805	R314	186563	198374	R751	62992	186817
J330	99314	29972	J815	74676	192786	Q1014	148463	133477	R365	184531	20955	R752	54610	176784
J331	165481	20320	J816	60706	201803	Q209	167767	37719	R366	177546	21082	R753	55880	173990
J332	170561	20193	J902	177165	141605	Q301	210566	227457	R407	151003	19939	R836	173736	110490
J334	11811	131445	J903	142494	109474	Q3011	208026	227457	R408	143510	24003	R882	162941	183515
J335	64516	89662	J904	147828	73533	Q302	205740	220980	R410	156464	21463	R883	140970	188087
J336	101473	130301	J906	148209	81534	Q3021	203200	220980	R414	159512	21463	R884	162941	213995
J337	134239	20828	J907	221488	101981	Q401	140970	30480	R417	162560	21463	R885	139573	208915
J338	58801	84582	J907.	198501	81915	Q500	138811	129032	R420	173609	21590	R886	152019	176022
J339	207010	133096	J908	177038	81534	Q502	104013	80010	R429	180975	21844	R887	135763	179324
J340	199390	150241	J909	18923	191516	Q5031	111506	76962	R501	114554	82042	R903	161036	108585
J341	98552	35052	J910	31877	209677	Q504	120523	57277	R502	125984	76073	RJ73	227076	65531
J343	136525	125095	K1	223266	60198	Q505	124460	65531	R504	102362	70358	RMC1	98450	245008
J344	166751	155194	K2	180340	121031	Q5061	117983	51054	R506	112522	67564	RMC1B	97663	241427
J345	60960	90805	L1001	185928	207264	Q509	125984	88519	R507	98044	62992	S1	20497	243205
J346	159512	139065	L1002	185928	203962	Q5091	123444	88519	R512	131572	53467	S1001	48488	238201
J347	203200	200914	L1004	196850	150241	Q510	118745	76581	R514	128016	52959	S1002	60502	238201
J348	220726	8890	L201	76454	7239	Q511	151003	140081	R518	114046	46228	S1003	72491	238201
J349	221234	55753	L202	169545	58166	Q601	73533	76073	R524	162687	129667	S1004	84505	238201
J400	179959	76200	L203	234696	71501	Q602	52197	83312	R602	70231	92964	S701	20497	242595
J401	152654	153670	L205	209804	87757	Q603	101981	104521	R603	40513	82804	SC401	166522	9499
J401.	194995	246989	L206	234950	61468	Q604	100457	91948	R604	28194	86614	SC881	121539	195961
J403	228854	132334	L207	228600	125222	Q701	40513	144526	R605	28194	83566	SF201	219964	112522
J404	173736	123317	L301	221869	75565	Q702	29591	130048	R606	94996	68580	SF202	190627	69469
J405	52070	113411	L303	231140	240411	Q703	24003	130048	R609	80010	31750	SF203	226314	112522
J406	151638	75946	L304	221488	222758	Q705	49530	91440	R610	100457	46990	T601	33528	41783
J410	212090	217297	L401	194945	234823	Q708	133477	138049	R611	61976	57531	T700	75565	126314
J411	220091	206502	L601	94996	82169	Q709	134366	146558	R616	116332	114046	T751	76454	176276
J413	151511	78994	L602	95504	32765	Q711	133858	154940	R618	80010	35306	TU201	220954	7315
J414	145796	69977	L604	59182	31496	Q870	159004	206502	R619	133604	115697	VA701	37846	214503
J416	121539	115189	L701	61976	213614	Q871	159004	195072	R620	75692	11430	X1001	205486	193040
J418	157480	234442	L702	75946	197104	Q872	155067	182499	R625	112014	116078	X801	184531	116967
J419	163576	234569	L703	62484	197739	Q883	153035	194564	R632	50419	68580			
J421	168148	70993	L710	93218	98552	Q885	154051	206502	R634	67183	40132			
J425	19050	121158	L790	101473	131572	Q887	146812	183007	R702	48006	126238			
J426	236220	200025	L881	137668	214503	R1030	223774	155194	R703	22987	167513			
J427	147193	114808	M1	211328	47498	R1031	223774	157734	R704	38100	144526			
J428	236093	172847	M1.	196977	66040	R1033	222758	139319	R705	29718	155448			
J429	34544	118999	M2	196977	63500	R1048	204470	150241	R706	55499	153797			

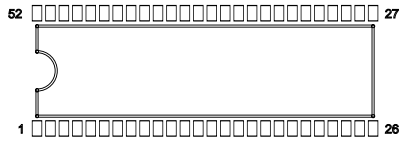
## F7320N0B PWB PARTS ALLOCATION TABLES (copper side):

Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm
C1001	212725	199644	C243	226568	24003	C813	189230	87757	Q201	165481	66929	R1028	221107	169545	R220	200787	50800
C1002	217424	179070	C244	227076	26797	C816	176784	117602	Q202	237998	36957	R1029	221107	164465	R221	205232	50800
C1003	227838	174117	C245	227076	41021	C817	224282	106553	Q203	205994	66040	R1032	52070	88011	R222	201295	70739
C1005	217297	172466	C250	177292	68326	C818	195199	84328	Q204	200914	66040	R1034	210947	154559	R223	207010	71755
C1008	204851	192405	C251	210058	81788	C820	179070	117602	Q206	232283	121793	R1035	213233	146685	R224	196850	50800
C1009	203200	196342	C252	164465	38481	C825	191008	118745	Q212	230632	99568	R1037	215138	157226	R225	171323	66929
C1011	217170	190881	C253	236855	148336	C827	168275	99695	Q303	219710	221361	R1038	131063	30226	R226	235712	112649
C1012	221361	179070	C254	231521	59817	C828	165227	98806	Q304	213614	214630	R1039	133604	30734	R228	233299	37211
C1013	217551	147701	C303	209931	241046	C829	173482	97409	Q305	235077	220218	R1041	128524	30988	R231	237998	28575
C1015	227711	182499	C305	216027	232791	C871	162814	185293	Q351	206502	20447	R1056	216154	199771	R232	235458	30734
C1016	217551	149606	C307	222885	217805	C872	155194	199771	Q352	200533	29718	R1058	212471	195580	R233	235458	49022
C1023	232156	175006	C310	228346	88011	C873	162814	180848	Q353	206502	25527	R1060	219964	128016	R234	238760	31750
C1024	235585	158877	C311	212979	44196	C880	150749	179832	Q354	196596	37465	R1061	225806	130048	R235	239268	51689
C1025	232156	176784	C402	191643	234823	C881	150495	209296	Q355	197104	42545	R1062	228727	131063	R238	239268	44196
C1026	213614	161417	C407	186309	20574	C882	149479	197358	Q501	146177	142494	R1064	234442	137033	R239	235077	52832
C1027	228219	170688	C408	184277	20574	C883	164084	201803	Q503	107569	75565	R1066	221107	171323	R248	208026	81788
C1028	228346	192024	C409	188214	20574	C884	167513	187071	Q506	124714	53594	R1067	146431	136906	R251	224790	103505
C1029	191770	168148	C411	196215	25273	C885	167005	181356	Q704	135636	158369	R1068	144526	136906	R253	176022	65277
C1030	224536	152654	C412	135509	20701	C901	187198	92583	Q706	161671	158877	R1072	232156	178562	R254	239522	77978
C1032	228219	168910	C413	182118	8890	C906	163195	112141	Q731	27940	80010	R1073	235585	162941	R256	239268	131572
C1033	196469	199517	C414	178054	8890	C909	192024	124714	Q751	68326	161925	R1075	196469	203581	R257	240538	135255
C1035	239268	67056	C415	179451	21082	D1014	198628	188468	Q752	58547	170307	R1077	214249	143637	R258	224282	17526
C201	180340	91567	C503	119253	53975	D1016	198628	185674	Q801	172466	57023	R1078	121793	235839	R260	229235	44577
C202	201422	85979	C504	107569	72009	D1018	198628	182880	Q901	166243	112141	R1080	221107	173101	R261	228473	109982
C203	219456	91059	C509	215265	112776	D1020	55245	87757	R1001	196850	171577	R1081	206121	168910	R262	223266	113030
C204	169418	70993	C510	215265	114808	D208	227965	121793	R1002	198628	171577	R1082	205740	172339	R263	238760	48641
C207	188214	83312	C511	126746	39370	D214	223774	122301	R1003	162687	74168	R1086	233680	197358	R301	222758	88773
C209	226060	91567	C512	130682	41783	D516	140335	136144	R1004	160782	74168	R1087	217551	151384	R302	208661	210566
C210	191262	87757	C517	113157	83439	D517	142494	136144	R1005	205867	186690	R1088	102743	109728	R303	222123	213233
C211	217678	39497	C518	117221	64770	D752	62992	169545	R1006	205867	183134	R1089	105791	111506	R304	208661	213360
C212	213487	59563	C607	166624	127381	D753	57023	154940	R1007	205867	181356	R1090	229362	202057	R306	234696	214503
C214	217043	72009	C609	43307	85217	D754	44069	157861	R1008	205867	179578	R1091	229362	195326	R307	223901	220726
C215	215773	80772	C610	210185	116205	IC1	23368	101854	R1009	205867	184912	R1092	233680	195326	R308	200025	224028
C216	210312	92456	C611	81280	82296	IC1002	195199	164084	R1010	202438	181102	R201	161798	58293	R309	212852	219075
C217	175768	87630	C613	210185	118237	IC201	199009	105029	R1011	202819	186055	R202	169291	66294	R310	209931	238506
C218	180086	87122	C614	113284	7747	IC501	122174	42545	R1012	222377	196723	R203	190246	83312	R311	220472	232791
C219	231521	66167	C623	18034	28448	IC751	53467	164465	R1013	206121	170688	R204	182753	82042	R315	221869	215519
C220	207264	50800	C717	147320	147574	Q1001	219456	194183	R1014	230505	192024	R205	224536	44323	R316	240030	191135
C221	207264	46736	C720	95504	150876	Q1002	204978	160274	R1015	217170	188468	R206	214884	73787	R317	237744	208407
C223	204470	41275	C721	96774	154305	Q1003	215138	154051	R1016	196215	150622	R207	216535	87249	R318	238760	216027
C226	182118	89535	C729	31242	124714	Q1004	204978	165608	R1017	221234	190881	R208	227965	91567	R347	156210	29718
C227	234569	105791	C751	61468	158496	Q1005	213741	203962	R1018	221234	188468	R209	159766	66548	R351	178562	37973
C228	238252	108839	C752	48006	165227	Q1006	216662	169037	R1019	227711	188087	R210	203962	82042	R352	206248	30480
C229	192278	83312	C801	180975	110871	Q1007	222250	149352	R1020	200406	171577	R211	205994	81788	R354	203962	30099
C230	234188	43942	C802	180975	106807	Q1008	226568	135255	R1021	213614	159512	R214	238760	113284	R355	206248	34290
C231	188214	49276	C803	180975	108712	Q1009	231267	136525	R1022	207391	153924	R215	229108	117221	R356	210439	28194
C237	209804	87757	C805	176530	53848	Q1010	98425	111252	R1023	212725	164211	R216	217043	63246	R357	210566	24257
C238	187198	37338	C807	185039	123190	Q1011	229362	198755	R1024	232664	203200	R217	203327	50800	R358	210566	20320
C240	189738	59436	C808	161798	63246	Q1012	196723	192913	R1026	221107	162306	R218	221234	62230	R359	202311	25273
C242	193294	87757	C810	191008	120777	Q1013	229362	205740	R1027	221107	166624	R219	198755	50800	R360	200279	25273

## F7320N0B PWB PARTS ALLOCATION TABLES (copper side):

Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm	Ref No	Xmm	Ymm
R361	176657	84328	R615	205232	123063	R879	162814	187325	RJ19	216662	165735	RJ72	143764	43307
R362	201422	42291	R621	100711	14224	R880	157099	200787	RJ2	191770	25273	RJ74	161290	9398
R363	189738	38481	R622	96266	9017	R881	159004	180213	RJ20	195580	185674	RJ8	219329	183896
R364	187198	44323	R623	76581	17272	R888	162941	195961	RJ21	227076	207772	RJ81	155956	195072
R402	191516	240538	R624	78486	17272	R892	149479	191770	RJ22	154686	121539	RJ82	155321	35941
R403	183261	239268	R633	82042	14224	R893	150495	203835	RJ23	151384	121539	RJ9	219329	182118
R404	156210	22733	R711	130048	144018	R894	146939	179578	RJ24	212725	78486			
R412	174244	29337	R712	139065	140970	R896	161671	202946	RJ25	192278	36195			
R415	160274	30226	R713	131063	157226	R898	161671	198882	RJ26	222250	106553			
R416	168021	21590	R714	45847	89154	R899	162687	182753	RJ27	223266	115062			
R418	162560	21590	R715	45847	91694	R901	192024	127254	RJ28	224028	109982			
R419	148336	32765	R716	51816	92837	R902	170561	112268	RJ29	229235	113030			
R421	200279	17272	R717	96774	156337	R904	167386	116332	RJ3	229743	211963			
R422	194310	25273	R718	46990	94996	RJ1	154813	52578	RJ30	200533	47498			
R423	199136	10414	R724	144145	155702	RJ10	218694	142748	RJ31	219329	120269			
R424	197104	10414	R725	157988	158877	RJ1031	137287	12319	RJ34	115570	39751			
R425	195199	10414	R729	147193	156210	RJ11	191770	160528	RJ35	201549	40005			
R426	187325	25527	R731	27559	84963	RJ112	229235	216154	RJ36	216789	48260			
R427	189230	25527	R733	131826	144018	RJ12	196596	160528	RJ37	224790	38735			
R428	173355	21590	R735	131826	148844	RJ120	135255	73533	RJ4	220091	174879			
R434	148717	51181	R745	65277	153543	RJ122	214757	117221	RJ40	151892	88519			
R435	150495	31496	R754	54737	170561	RJ123	229997	238506	RJ41	178054	65277			
R436	158242	30226	R755	61468	162560	RJ124	221742	72517	RJ42	166370	72771			
R500	143002	142748	R756	61595	164973	RJ125	105537	236982	RJ43	188976	66040			
R503	107569	78994	R757	52578	170561	RJ126	118999	236093	RJ44	160274	68707			
R505	122555	46228	R758	59055	158496	RJ128	211963	236093	RJ45	156210	68707			
R508	120015	71247	R759	42037	164719	RJ129	192278	230505	RJ47	195199	82296			
R509	135001	48895	R760	50673	158242	RJ13	180467	140970	RJ48	199263	70739			
R510	115062	72263	R761	54229	154940	RJ132	154813	88519	RJ49	128524	85979			
R511	132715	41783	R762	44069	163322	RJ135	213741	38100	RJ5	217424	176911			
R513	114554	48768	R801	192024	122809	RJ136	182626	70104	RJ50	208534	30480			
R515	117475	80010	R802	166751	53213	RJ138	127000	44958	RJ53	207518	40767			
R516	115189	83439	R803	199009	127254	RJ141	195834	224536	RJ55	8763	35814			
R517	128778	41783	R804	218694	98552	RJ142	51054	80264	RJ56	8763	33782			
R519	139192	122936	R805	136017	41275	RJ143	224282	118237	RJ57	8763	31750			
R520	144907	129921	R806	176657	81534	RJ144	227330	113030	RJ58	8763	29718			
R525	159258	146050	R807	168529	50165	RJ146	207264	125222	RJ59	8763	27813			
R526	109474	51054	R808	161925	40005	RJ147	214122	124968	RJ6	213487	187071			
R527	101473	58547	R809	177038	56261	RJ148	183261	86487	RJ60	8763	25781			
R528	97663	53467	R810	180340	93472	RJ15	209550	136144	RJ61	8763	23749			
R529	109220	48514	R814	180213	95758	RJ150	130048	122301	RJ62	8763	21717			
R530	105029	50546	R815	178054	98298	RJ151	126746	115824	RJ64	228473	64262			
R531	113284	43688	R816	173736	95250	RJ152	238760	126111	RJ65	213614	64262			
R532	159258	150114	R823	164973	81026	RJ153	211582	41783	RJ66	217932	52197			
R533	142240	127127	R825	226187	106553	RJ154	149479	130048	RJ67	215773	52197			
R601	108585	108077	R834	100711	12319	RJ155	140335	136144	RJ68	213741	52197			
R607	237744	162941	R837	176784	113284	RJ156	142494	136144	RJ69	210820	52197			
R608	237744	158877	R838	199009	125222	RJ16	219710	125222	RJ7	222377	200660			
R612	161798	125730	R839	156591	96520	RJ17	215392	136144	RJ70	120904	68199			
R613	199009	123317	R878	162941	193929	RJ18	221361	177292	RJ71	114554	46736			

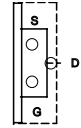
SOLID STATE DEVICE BASE DIAGRAM



RH-IX1818BMZZ



RH-IX1812BMZZ



RH-TX0199BMZZ  
RH-TX0140BMZZ



VHIPC123ZY-1



RH-IX0037CEZZ



VSIMT1A/A/-1\*



RH-TX0132BMZZ  
RH-TX0204BMZZ



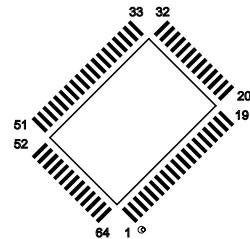
RH-TX0142BMZZ  
RH-TX0216BMZZ  
RH-TX0217BMZZ  
RH-TX0218BMZZ



RH-TX0108BMZZ  
RH-TX0112BMZZ  
RH-TX0181BMZZ  
RH-TX0180BMZZ



RH-TX0113BMZZ  
VS2SA1037KQ-1  
VS2SC2412KQ-1  
(SMD COMPONENT)



RH-IX1630BMN2


## DESCRIPTION OF SCHEMATIC DIAGRAM

### SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.

2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

### IMPOTANT SAFETY NOTE:

PARTS MARKED WITH «  $\triangle$  » (  ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

### CAUTION

This circuit diagram is original one, therefore there may be slight difference from yours.

### NOTE:

1. The unit of resistance «ohm» is omitted (K=1000 ohms. M= Megaohm).
2. All resistors are 1/8 watt. unless otherwise noted.
3. All capacitors are  $\mu\text{F}$ , unless otherwise noted (P=  $\mu\mu\text{F}$ ).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.
5. The capacitor with Part No. RC-FZ4XXXBMNJ is designed to with stand 50V.

### SERVICE PRECAUTION:

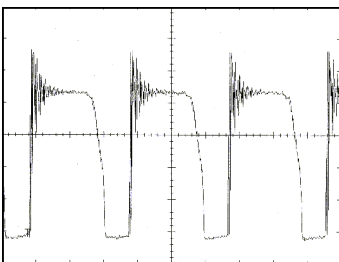
THE AREA ENCLOSED BY THIS LINE (---) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.

WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

### WAVEFORM MEASUREMENT CONDITION:

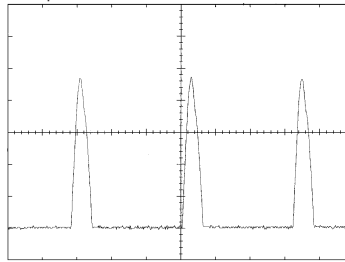
Colour bar genetator signal of 70 dB from RF input.

Power circuit drive. Q701 Drain



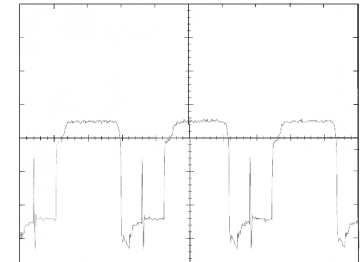
1 V. Division: 100V / Sec. Division: 5uS

H-output. Q601 collector



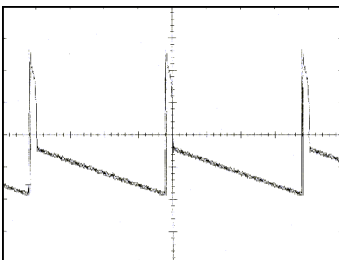
2 V. Division: 200V / Sec. Division: 20uS.

H-drive. Q601 Base



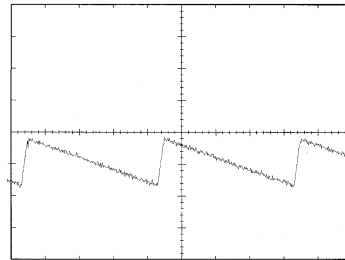
3 V. Division: 2.0V / Sec. Division: 20uS

V-output. F 5pin



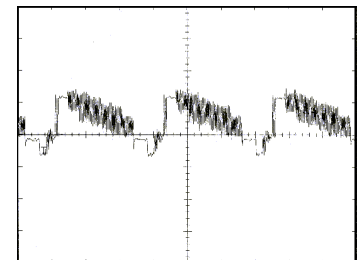
4 V. Division: 10V / Sec. Division: 5mS

V-output. F 4pin



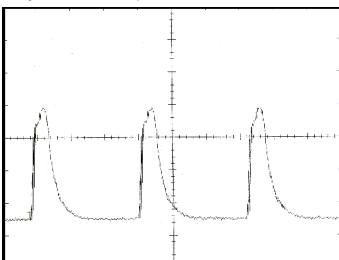
5 V. Division: 2.0V / Sec. Division: 5mS

Video out. IC201 54pin



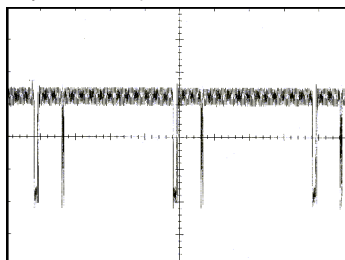
6 V. Division: 1.0V / Sec. Division: 20uS

H-sync. IC1001 19pin



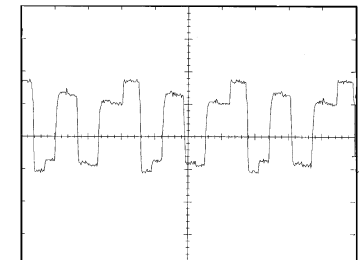
7 V. Division: 1V / Sec. Division: 20uS

V-sync. IC1001 24pin

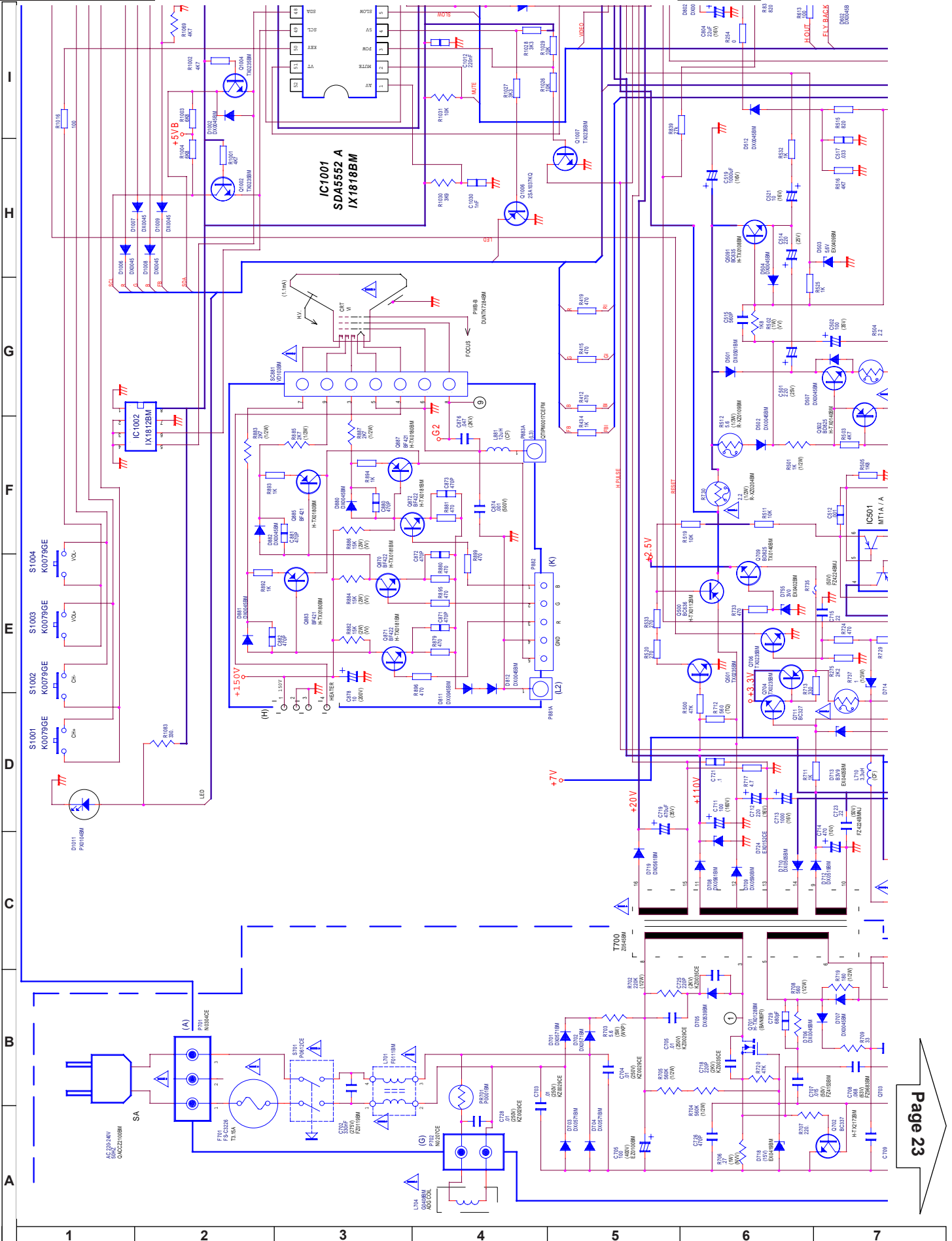


8 V. Division: 1V / Sec. Division: 5mS

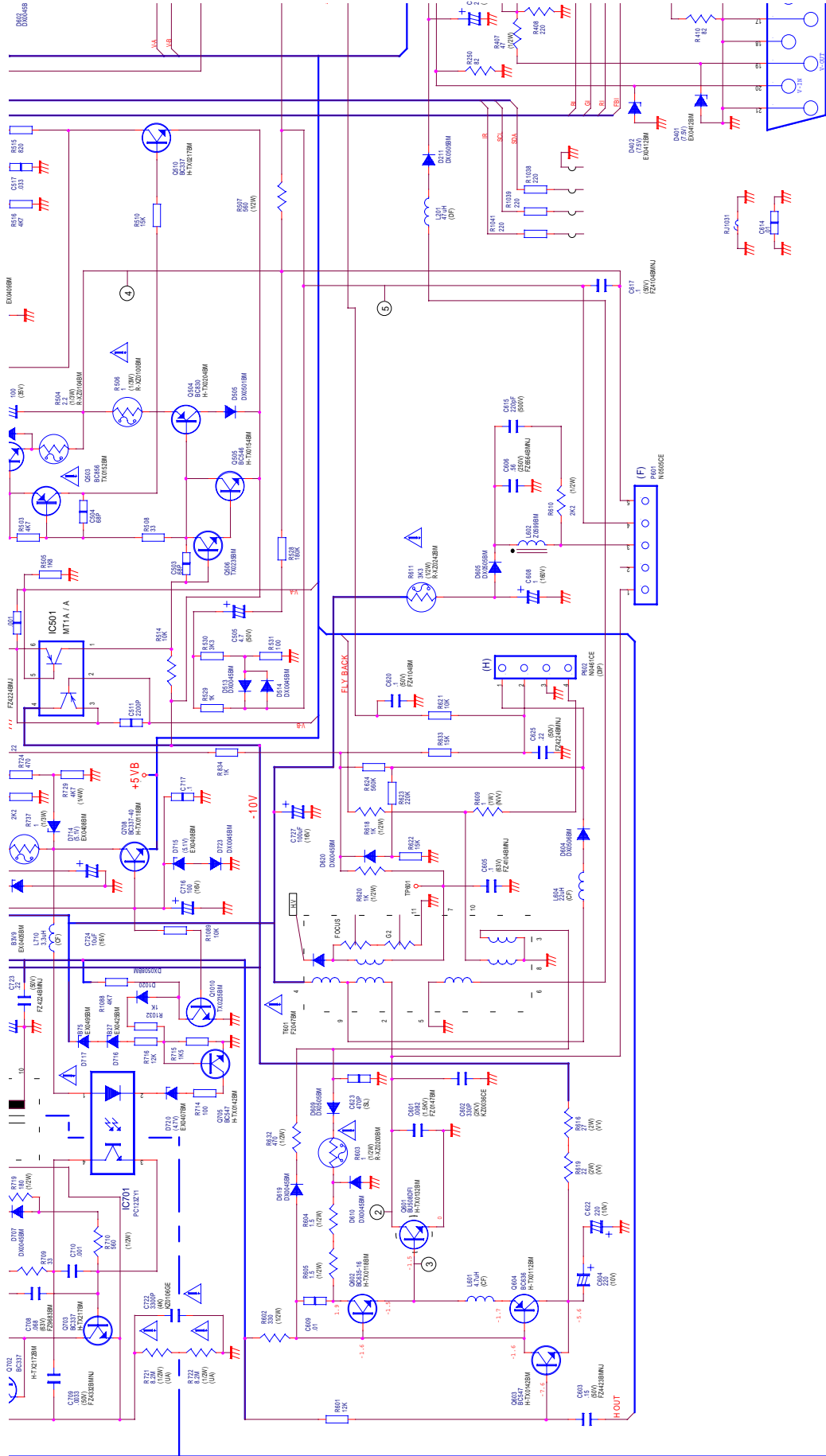
Red cathode CRT socket 8pin



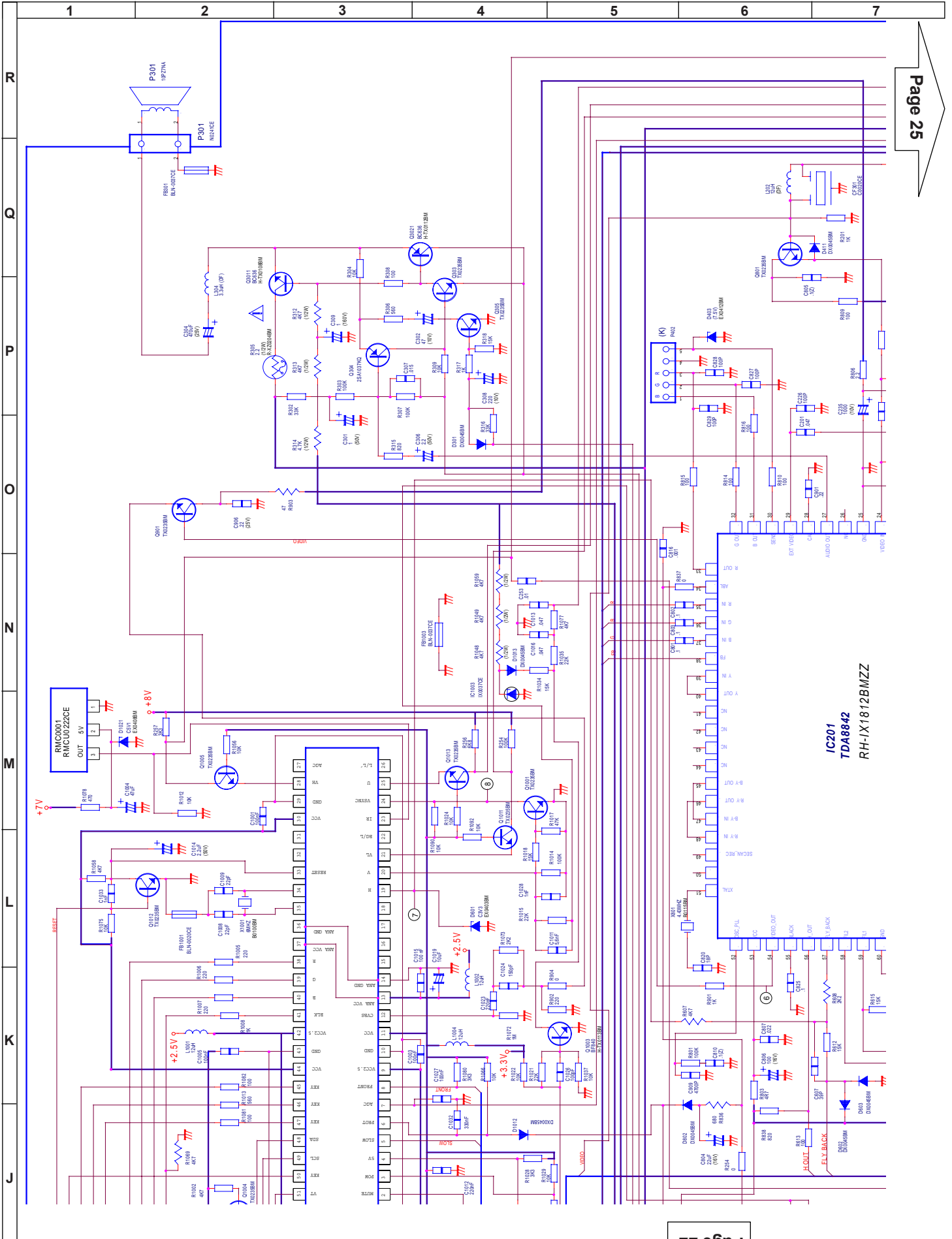
9 V. Division: 20V / Sec. Division: 20uS



SCHEMATIC DIAGRAM (00 Version).



SCHEMATIC DIAGRAM (01 Version).

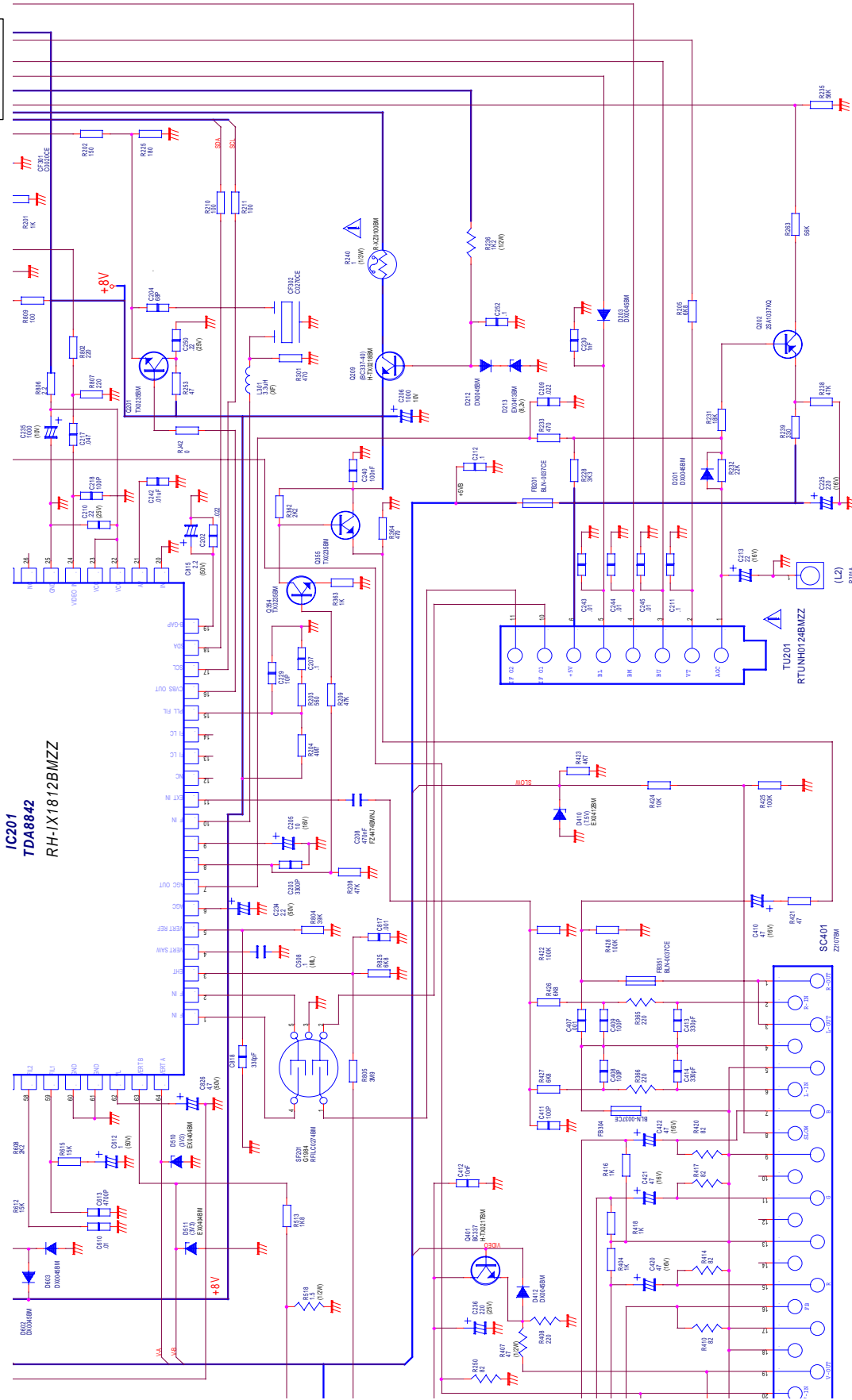




SCHEMATIC DIAGRAM (01 Version).

8 9 10 11 12 13 14

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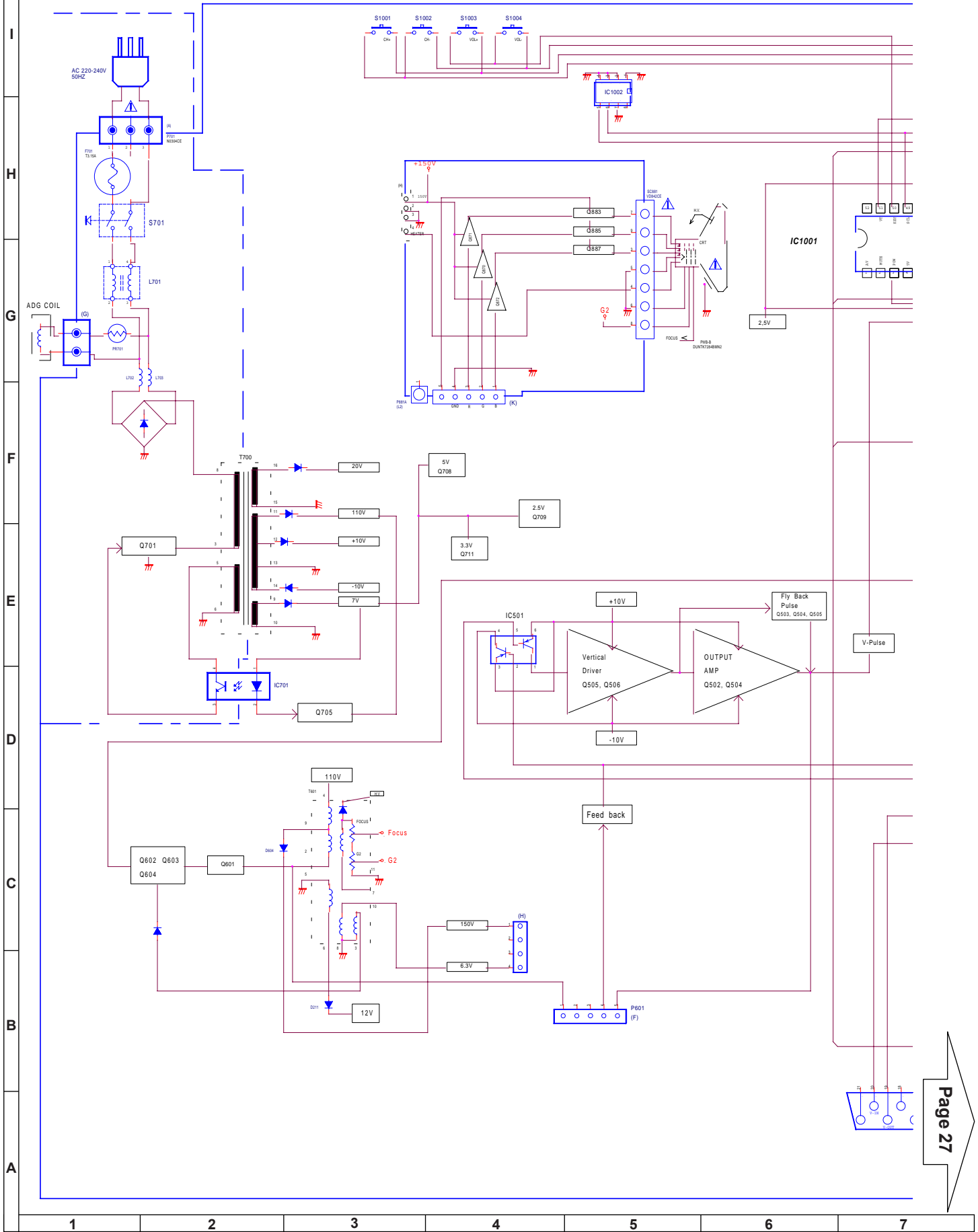


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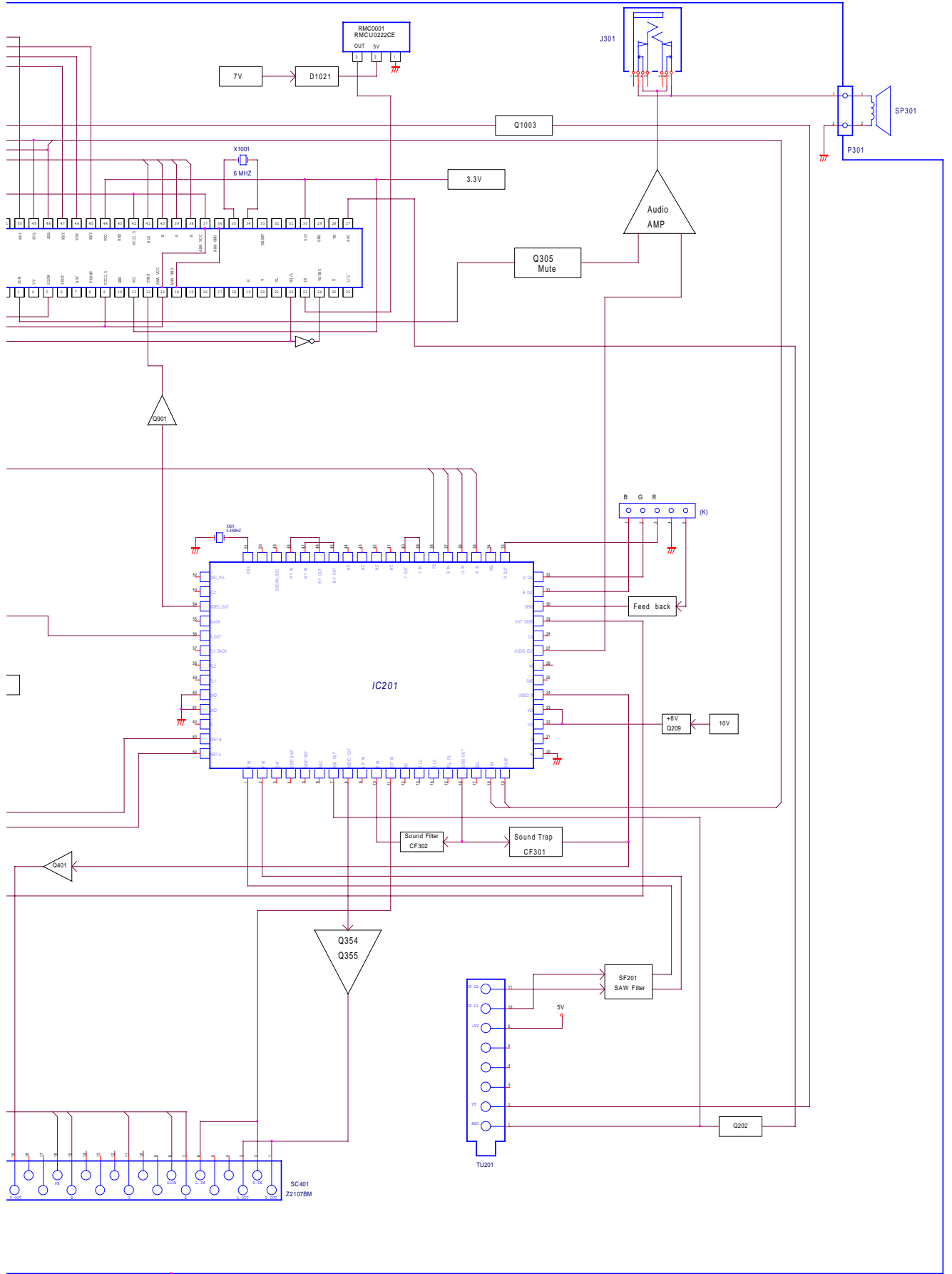
REALIZADO		VERIFICADO		APROBADO		NOMBRE		CODIGO		FECHA		MODELO		RESERVAS	
						GA-1		Q K I T P 7 3 2 0 B M N 0		27-10-2000		51GT25S		A-2	
										ESOLA		A-2			
										26-09-2000		HASTA INFO 080		6	
										25-09-2000		HASTA INFO 078		5	
										24-10-2000		HASTA INFO 080		10	
										23-10-2000		HASTA INFO 088		9	
										18-10-2000		HASTA INFO 086		8	
										05-10-2000		HASTA INFO 085		7	
										FECHA		RESERVAS		N	

J K L M N O P Q R

BLOCK DIAGRAM

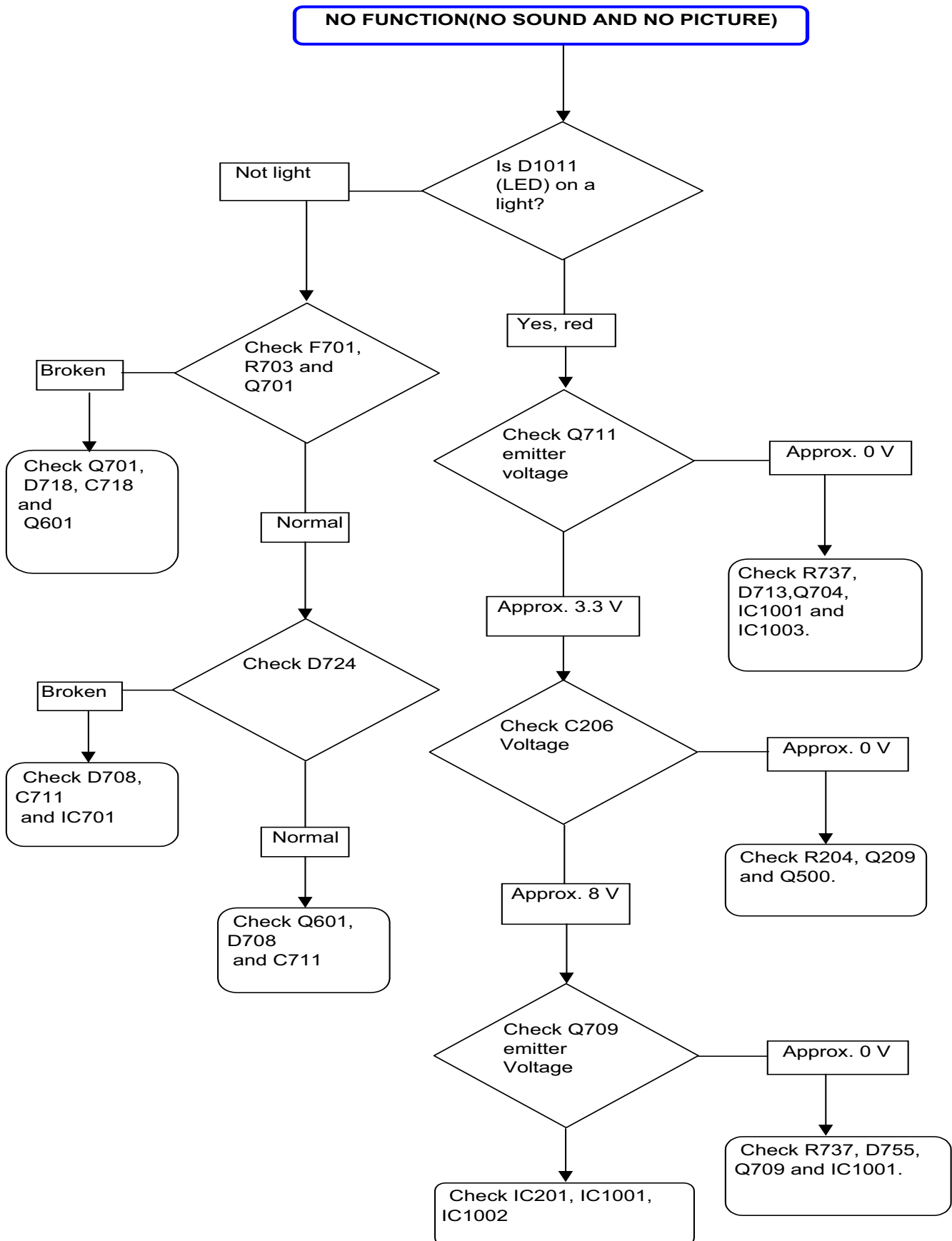


BLOCK DIAGRAM

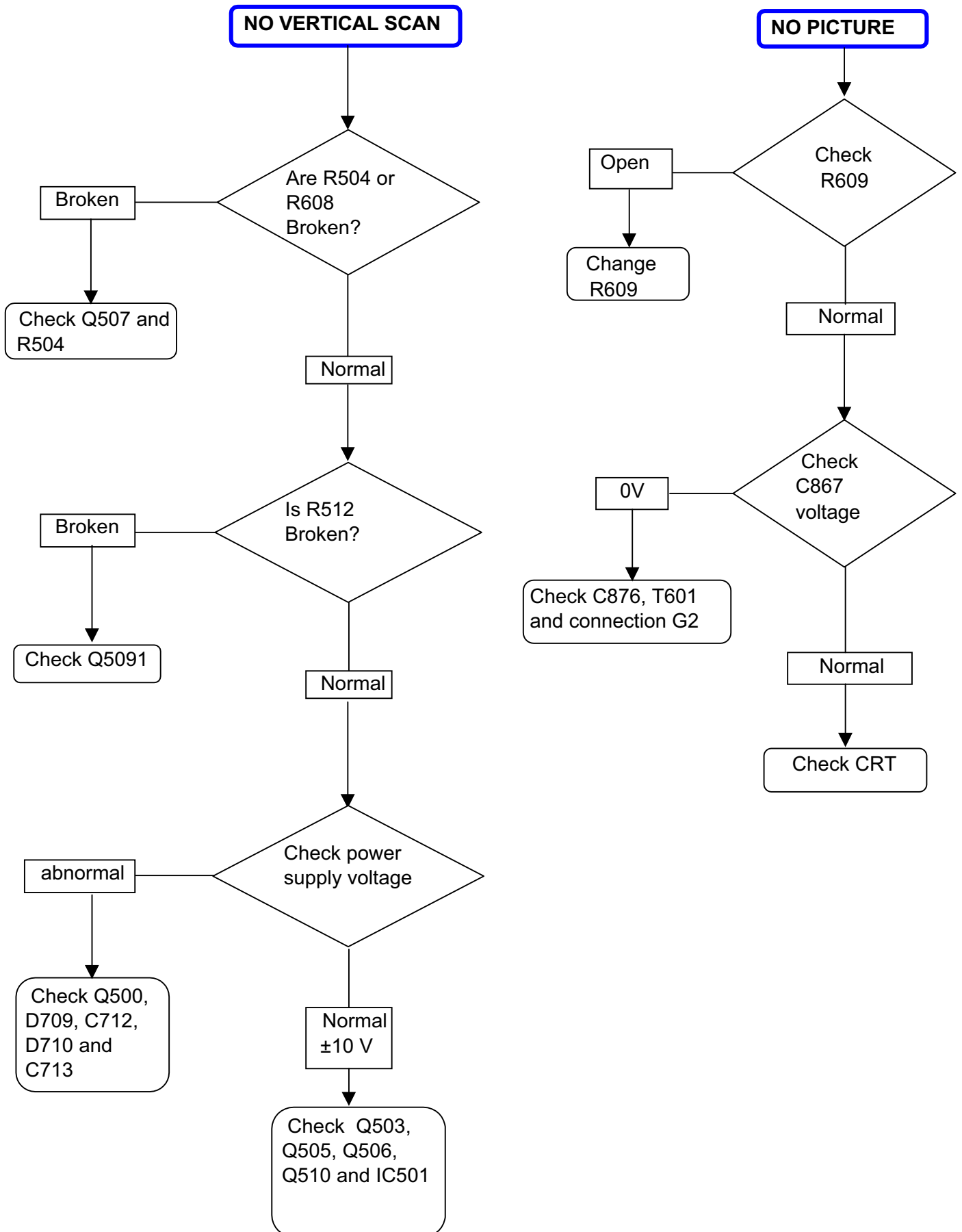


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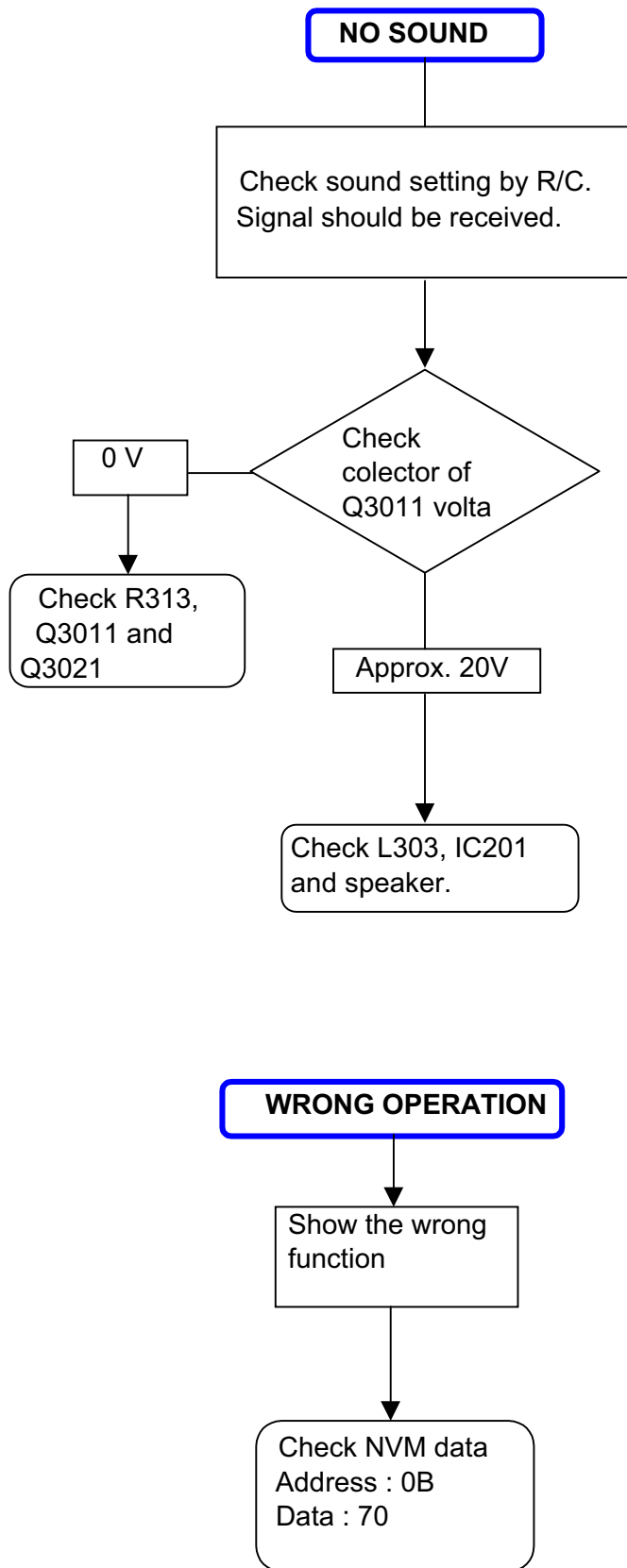
## TROUBLESHOOTING TABLES.



## TROUBLESHOOTING TABLES.



# TROUBLESHOOTING TABLES.



## PART LIST

### REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by  $\Delta$  in the Replacement Part List.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.

Replacement parts not shown in this service manual may create shock fire, or other hazards.

### HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK *		SPARE PARTS		DELIVERY SECTION	
REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE	
<b>PICTURE TUBE</b>					
$\Delta$	VB48ECR1451*N	CRT 20" A48ECR143X51RED SAMSUNG	S BM	CC	
$\Delta$	RCILG0408BMZZ	DEGUSSING COIL TODAIMUSEN	S AH	AP	
<b>PRINTED WIRING BOARDS (Not replacement item)</b>					
	DUNTK7320JV1	CHASSIS ADJUST 51GT25S	S --	--	
	DUNTK7321CJV1	CRT SOCKET ADJUST 51GT25S	S --	--	
	DSETU7320BMV1	CHASSIS 51GT25S	S --	--	
<b>PWB-A</b>		<b>MOTHER UNIT</b>			
<b>TUNER</b>					
TU 0201	RTUNH0124BMZZ	TUNER UV1315/IEC BALANCED	S AP	BA	
<b>INTEGRATED CIRCUITS</b>					
IC 0201	RH-IX1630BMN2	IC TDA8840-2Y PHILIPS	S AN	AZ	
IC 0501	VSIMT1A/A/-1	TRT IMT1A-T110 ROHM	S AA	AB	
$\Delta$ IC 0701	VHIPC123ZY1-1	PHOTO COUPLER PC123ZY1 SHARP	S AA	AD	
IC 1001	RH-IX1818BMZZ	IC SDA5552A002 TV TEXT PRO 1PAGE 64KB	S --	--	
IC 1002	RH-IX1812BMZZ	EEPROM M24C04-WMN6T ST MICROELECT	S AB	AF	
IC 1003	RH-IX0037CEZZ	IC UPC574J 33V NEC	S AF	AD	
<b>TRANSISTORS</b>					
Q 0201	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0202	VS2SA1037KQ-1	TRT BC807 SMD	S AA	AA	
Q 0209	RH-TX0218BMZZ	TRT BC337-40 PHILIPS	S AA	AA	
Q 0303	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0304	VS2SA1037KQ-1	TRT BC807 SMD	S AA	AA	
Q 0305	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0354	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0355	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0401	RH-TX0217BMZZ	TRT BC337 PHILIPS	S AA	AB	
Q 0500	RH-TX0112BMZZ	TRT BC636	S AA	AB	
Q 0501	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0502	RH-TX0140BMZZ	TRT BD825-16	S AF	AC	
Q 0503	RH-TX0153BMZZ	TRT BC856BLT1 SMD MOTOROLA	S AA	AB	
Q 0504	RH-TX0204BMZZ	TRT BD830	S AF	AC	
Q 0505	RH-TX0154BMZZ	TRT BC546 PHILIPS	S AA	AA	
Q 0506	RH-TX0152BMZZ	TRT BC846BLT1 SMD MOTOROLA	S AA	AA	
Q 0510	RH-TX0217BMZZ	TRT BC337 PHILIPS	S AA	AB	
Q 0601	RH-TX0132BMZZ	TRT BU508DFI	S AF	AM	
Q 0602	RH-TX0118BMZZ	TRT BC635-16 BETA > 100	S AC	AC	
Q 0603	RH-TX0142BMZZ	TRT TBC 547-B TOSHIBA	S AA	AB	
Q 0604	RH-TX0112BMZZ	TRT BC636	S AA	AB	
Q 0701	RH-TX0199BMZZ	TRT STP4NB80FP ST	S AC	AG	
Q 0702	RH-TX0217BMZZ	TRT BC337 PHILIPS	S AA	AB	
Q 0703	RH-TX0217BMZZ	TRT BC337 PHILIPS	S AA	AB	
Q 0704	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S --	--	
Q 0705	RH-TX0142BMZZ	TRT TBC 547-B TOSHIBA	S AA	AB	

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
Q 0706	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 0708	RH-TX0218BMZZ	TRT BC337-40 PHILIPS	S	AA	AA
Q 0709	RH-TX0140BMZZ	TRT BD825-16	S	AF	AC
Q 0711	RH-TX0216BMZZ	TRT BC327	S	AA	AA
Q 0801	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 0901	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1001	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1002	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1003	RH-TX0113BMZZ	TRT BF840 SMD	S	AA	AC
Q 1004	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1005	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1006	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
Q 1007	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1010	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1011	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1012	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1013	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 3011	RH-TX0108BMZZ	TRT BC635	S	AA	AC
Q 3021	RH-TX0112BMZZ	TRT BC636	S	AA	AB
Q 5091	RH-TX0108BMZZ	TRT BC635	S	AA	AC
<b>DIODES</b>					
D 0201	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0203	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0211	RH-DX0050BMZZ	DIODE 1N4935	S	AB	AE
D 0212	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0213	RH-EX0413BMZZ	ZENER DIODE BZX79C8V2	S	AB	AB
D 0301	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0401	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0402	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0403	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0410	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0411	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0412	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0501	RH-DX00501BMZZ	DIODE 1N4004	S	AA	AA
D 0502	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0503	RH-EX0409BMZZ	ZENER DIODE BZX79C5V6	S	AA	AA
D 0504	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0505	RH-DX00501BMZZ	DIODE 1N4004	S	AA	AA
D 0507	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0510	RH-EX0404BMZZ	ZENER DIODE BZX79C3V6	S	AA	AA
D 0511	RH-EX0404BMZZ	ZENER DIODE BZX79C3V6	S	AA	AA
D 0512	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0513	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0514	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0601	RH-EX0403BMZZ	ZENER DIODE BZX79C3V3	S	AA	AA
D 0602	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0603	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0604	RH-DX00506BMZZ	DIODE 1N4936	S	AB	AB
D 0605	RH-DX00505BMZZ	DIODE 1N4935	S	AB	AE
D 0609	RH-DX00505BMZZ	DIODE 1N4935	S	AB	AE
D 0610	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0619	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0620	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0701	RH-DX00571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0702	RH-DX00571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0703	RH-DX00571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0704	RH-DX00571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0705	RH-DX00539BMZZ	DIODE BYT52M TFK	S	AA	AC
D 0706	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0707	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0708	RH-DX00561BMZZ	DIODE RGP15J FAGOR	S	AC	AD
D 0709	RH-DX00590BMZZ	DIODE MBR1100RL MOTOROLA	S	AD	AE
D 0710	RH-DX00505BMZZ	DIODE 1N4935	S	AB	AE
D 0712	RH-DX00519BMZZ	DIODE 1N5819 MOROROLA	S	AB	AD
D 0713	RH-EX0405BMZZ	ZENER DIODE BZX79C3V9	S	AB	AB
<b>PACKAGED CIRCUITS</b>					
PR 0701	RMPTP0001BMZZ	PTC B59250-C1080-B70	S	AA	AD
X 0801	RCRSB0115BMZZ	CRYSTAL 4.43 MHZ	S	AD	AG
X 1001	RCRSB0100BMZZ	CRYSTAL 6.00 MHZ	S	AD	AG
<b>COILS</b>					
L 0003	QCWN-3065BMZZ	WIRE L-3	S	AA	AC
L 0201	VP-DF470K0000	PEAK COIL 47UH 10%	S	AB	AB
L 0202	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
L 0301	VP-XF3R3K0000	PEAK COIL 3.3UH 10% 1/8W	S	AA	AB
L 0304	VP-DF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0601	VP-CF4R7K0000	PEAK COIL 4.7UH 10%	S	AB	AB
L 0602	RCILZ0599CEZZ	DL (DELAY LINE)	S	AG	AG
L 0604	VP-CF220K0000	PEAK COIL 22UH 10%	S	AA	AA
L 0701	RCILF0111BMZZ	COIL HR-19043	S	AE	AL
L 0710	VP-CF120K0000	PEAK COIL 12UH 10%	S	AB	AC
L 1001	VP-CF120K0000	PEAK COIL 12UH 10%	S	AB	AC
L 1002	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
L 1004	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
<b>CERAMIC FILTERS</b>					
CF 0301	RFILC0020CEZZ	FILTER SIF TRAP (TAPED)	S	AE	AE
CF 0302	RFILC0270CEZZ	SIF B.P.FILTER 5.5MHZ MRT	S	AC	AE
SF 0201	RFILC0274BMZZ	SAW FILTER G1984 SIEMENS	S	AF	AK
<b>TRANSFORMERS</b>					
△ T 0601	RTRNF2047BMZZ	FBT 14" DIEMEN	S	AR	AY
△ T 0700	RTRNZ0545BMZZ	CHOPPER HR9472-00 21" DIEMEN	S	AV	AM
<b>CAPACITORS</b>					
C 0201	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
C 0202	VCKYTV1HB223K	CERAM C 22NF 50V 2125SMD	S	AA	AA
C 0203	VCKYTV1HB332K	CERAM C 3.3NF 50V 2125SMD	S	AA	AA
C 0204	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
C 0205	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0206	VCEAGA1AW108M	ELEC C 1000UF 20% 10V	S	AA	AB
C 0207	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0208	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASON	S	AA	AC
C 0209	VCKYTV1HB223K	CERAM C 22NF 50V 2125SMD	S	AA	AA
C 0210	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0211	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0212	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0213	VCEAGA1CW226M	ELEC C 22UF 20% 16V	S	AA	AA
C 0217	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
C 0218	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA





REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
C 1028	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S AA	AA
C 1030	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S AA	AA
C 1032	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S AA	AB
C 1033	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S AA	AA
		<b>RESISTORS</b>		
R 0201	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0202	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S AA	AA
R 0203	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S AA	AA
R 0204	VRS-TV1JD475J	2125 4.7MOHM 5% 1/10W SMD	S AA	AA
R 0205	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S AA	AA
R 0208	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S AA	AA
R 0209	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S AA	AA
R 0210	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S AA	AA
R 0211	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S AA	AA
R 0225	VRS-TV1JD181J	2125 180 OHM 5% 1/10W SMD	S AA	AA
R 0228	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S AA	AA
R 0231	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S AA	AA
R 0232	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S AA	AA
R 0233	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0235	VRS-TV1JD563J	2125 56KOHM 5% 1/10W SMD	S AA	AA
R 0236	VRD-RA2HD221J	RES 220 OHM 5% 1/2W	S AA	AA
R 0238	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S AA	AA
R 0239	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S AA	AA
△ R 0240	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S AA	AB
R 0248	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
R 0250	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S AA	AA
R 0253	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S AA	AA
R 0254	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0256	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S AA	AA
R 0257	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S AA	AA
R 0263	VRS-TV1JD563J	2125 56KOHM 5% 1/10W SMD	S AA	AA
R 0301	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0302	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S AA	AA
R 0303	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0304	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0305	RR-XZ0204BMZZ	FUS RES 2R2 TAP 5% 1/2W	S AA	AB
R 0306	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S AA	AA
R 0307	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0308	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S AA	AA
R 0309	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0312	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S AA	AA
R 0313	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S AA	AA
R 0314	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S AA	AA
R 0315	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S AA	AA
R 0316	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S AA	AA
R 0317	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0318	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0362	VRS-TV1JD222J	2125 2.2KOHM 5% 1/10W SMD	S AA	AA
R 0363	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0364	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0365	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S AA	AA
R 0366	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S AA	AA
R 0404	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0407	VRD-RA2HD470J	RES 47 OHM 5% 1/2W	S AA	AA
R 0408	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S AA	AA
R 0410	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S AA	AA
R 0412	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0414	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S AA	AA
R 0415	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0416	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0417	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S AA	AA
R 0418	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0419	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0420	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S AA	AA
R 0421	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S AA	AA

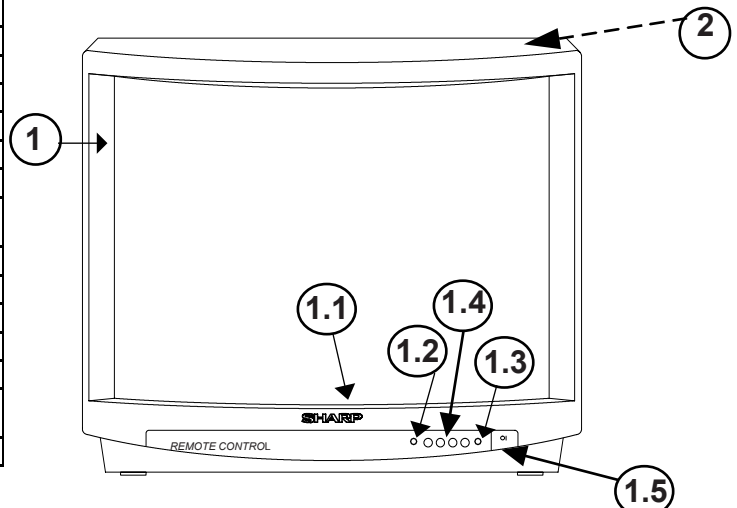
REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
R 0422	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0423	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0424	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0425	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0426	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S AA	AA
R 0427	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S AA	AA
R 0428	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S AA	AA
R 0434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0500	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S AA	AA
R 0501	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S AA	AA
R 0502	VRS-VV3AB182J	MET OX RES 1.8KOHM 5% 1W	S AA	AA
R 0503	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S AA	AA
△ R 0504	RR-XZ0104BMZZ	FUS RES 2R2 TAP 5% 1/3W	S AA	AB
R 0505	VRS-TV1JD182J	2125 1.8KOHM 5% 1/10W SMD	S AA	AA
R 0506	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S AA	AB
R 0507	VRD-RA2HD561J	RES 560 OHM 5% 1/2W	S AA	AA
R 0508	VRS-TV1JD330J	2125 33 OHM 5% 1/10W SMD	S AA	AA
R 0510	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0511	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0512	RR-XZ0109BMZZ	FUS RES 5R6 TAP 5% 1/3W	S AA	AB
R 0513	VRS-TV1JD182J	2125 1.8KOHM 5% 1/10W SMD	S AA	AA
R 0514	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S AA	AA
R 0515	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S AA	AA
R 0516	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0518	VRD-RA2HD1R5J	RES 1.5 OHM 5% 1/2W	S AA	AA
R 0519	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0520	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S AA	AA
R 0525	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0528	VRS-TV1JD184J	2125 180KOHM 5% 1/10W SMD	S AA	AA
R 0529	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0530	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S AA	AA
R 0531	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S AA	AA
R 0532	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0533	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S AA	AA
R 0601	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S AA	AA
R 0602	VRD-RA2HD331J	RES 330 OHM 5% 1/2W	S AA	AA
R 0603	RR-XZ0200BMZZ	FUS RES 1R0 TAP 5% 1/2W	S AA	AB
R 0604	VRD-RA2HD1R5J	RES 1.5 OHM 5% 1/2W	S AA	AA
R 0605	VRD-RA2HD1R5J	RES 1.5 OHM 5% 1/2W	S AA	AA
R 0607	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0608	VRS-TV1JD222J	2125 2.2KOHM 5% 1/10W SMD	S AA	AA
R 0609	VRN-VV3AB1R0J	MET FILM R 1 OHM 5% 1W	S AA	AA
R 0610	VRD-RA2HD222J	RES 2.2KOHM 5% 1/2W	S AA	AA
△ R 0611	RR-XZ0242BMZZ	FUS RES 3K3 TAP 5% 1/2W	S AA	AB
R 0612	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0613	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S AA	AA
R 0615	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0616	VRS-VV3DB270J	MET OX RES 27 OHM 5% 2W	S AA	AA
R 0618	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S AA	AA
R 0619	VRS-VV3DB220J	MET OX RES 22 OHM 5% 2W	S AA	AA
R 0620	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S AA	AA
R 0621	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S AA	AA
R 0622	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0623	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S AA	AA
R 0624	VRS-TV1JD564J	2125 560KOHM 5% 1/10W SMD	S AA	AA
R 0632	VRD-RA2HD471J	RES 470 OHM 5% 1/2W	S AA	AA
R 0633	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S AA	AA
R 0702	VRD-RA2HD224J	RES 220KOHM 5% 1/2W	S AA	AA
R 0703	VRW-KP3HC5R6K	WOUND RES 5.6 OHM 10% 5W	S AB	AC
R 0704	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S AA	AA
R 0705	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S AA	AA
R 0706	VRN-VV3ABR27J	MET FILM R .27 OHM 5% 1W	S AA	AA
R 0707	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S AA	AA
R 0708	VRD-RA2HD561J	RES 560 OHM 5% 1/2W	S AA	AA
R 0709	VRD-RA2BE330J	RES 33 OHM 5% 1/8W	S AA	AA
R 0710	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 0712	VRS-TQ2BD561J	OX RE 560 OHM 5% 1/8W SMD	S	AA	AA
R 0713	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
R 0714	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0715	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
R 0716	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 0717	VRS-TV1JD4R7J	2125 4.7 OHM 5% 1/10W SMD	S	AA	AA
R 0719	VRD-RA2HD181J	RES 180 OHM 5% 1/2W	S	AA	AA
R 0720	VRD-RA2BE473J	RES 47KOHM 5% 1/8W	S	AA	AA
△ R 0721	VRC-UA2HG825K	SOLID R 8.2MOHM 10% 1/2W	S	AA	AA
△ R 0722	VRC-UA2HG825K	SOLID R 8.2MOHM 10% 1/2W	S	AA	AA
R 0724	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 0725	VRS-TV1JD222J	2125 2.2KOHM 5% 1/10W SMD	S	AA	AA
R 0729	VRS-TQ2BD472J	OX RE 4.7KOHM 5% 1/8W SMD	S	AA	AA
R 0730	RR-XZ0204BMZZ	FUS RES 2R2 TAP 5% 1/2W	S	AA	AB
R 0733	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 0735	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0737	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S	AA	AB
R 0801	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0802	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0803	VRS-TV1JD4R7J	2125 4.7 OHM 5% 1/10W SMD	S	AA	AA
R 0804	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	AA
R 0805	VRS-TV1JD395J	2125 3.9MOHM 5% 1/10W SMD	S	AA	AA
R 0806	VRS-TV1JD2R2J	2125 2.2 OHM 5% 1/10W SMD	S	AA	AA
R 0807	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0809	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0810	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0814	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0815	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0816	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0825	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
R 0834	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0836	VRD-RA2BE681J	RES 680 OHM 5% 1/8W	S	AA	AA
R 0837	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0838	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
R 0839	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
R 0901	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0902	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0903	VRD-RA2BE470J	RES 47 OHM 5% 1/8W	S	AA	AA
R 0904	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 1001	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1002	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1003	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
R 1004	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
R 1005	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1006	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1007	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1008	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 1012	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1013	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
R 1014	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 1015	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 1016	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 1017	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
R 1018	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 1021	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 1022	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1024	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1026	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1027	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 1028	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 1029	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1030	VRD-RA2BE392J	RES 3.9KOHM 5% 1/8W	S	AA	AA
R 1031	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
R 1032	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 1033	VRD-RA2BE104J	RES 100KOHM 5% 1/8W	S	AA	AA
R 1034	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA

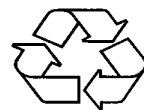
REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 1037	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1038	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1039	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1041	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 1048	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
R 1049	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
R 1056	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1058	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1059	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
R 1066	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1069	VRD-RA2BE472J	RES 4.7KOHM 5% 1/8W	S	AA	AA
R 1072	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
R 1073	VRS-TV1JD222J	2125 2.2KOHM 5% 1/10W SMD	S	AA	AA
R 1075	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1077	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1078	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 1080	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 1081	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 1082	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 1083	VRD-RA2BE331J	RES 330 OHM 5% 1/8W	S	AA	AA
R 1088	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1089	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1090	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1091	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 1092	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
RJ 0001	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0002	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0005	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0006	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0007	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0008	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0009	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0010	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0011	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0015	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0017	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0018	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0019	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0021	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0022	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0023	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0024	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0025	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0026	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0028	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0029	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0031	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0034	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0035	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0037	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0040	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0041	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0042	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
RJ 0043	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0044	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0045	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0047	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0049	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0053	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0065	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0066	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0067	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0068	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0070	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
RJ 0071	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
RJ 0074	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0082	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0112	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0120	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0122	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0123	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0124	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0125	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0128	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0132	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0136	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0138	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0141	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0142	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0146	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0150	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0151	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0152	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0154	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0155	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 0156	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
RJ 1031	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
<b>MISCELLANEOUS PARTS</b>				
△ F 0701	QFS-C3226CEZZ	FUSE T3.15AH 250V	S AC	AE
FB 0201	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S AB	AB
FB 0301	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S AB	AB
FB 0304	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S AB	AB
FB 0351	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S AB	AB
FB 1001	RBLN-0020CEZZ	BALUNE	S AA	AB
FB 1003	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S AB	AB
FH 1001	QFSDH1001BMZZ	FUSE HOLD.EYF52BC=PANASON	S AA	AA
FH 1002	QFSDH1002BMZZ	FUSE HOLD.EYF52BC=PANASON	S AA	AA
RMC0001	RRMCU0222CEZZ	R/C RECEIVER	S AD	AG
△ S 0701	QSW-P0612CEZZ	POWER SWITCH ESB92D41B PANASONIC	S AC	AH
S 1001	QSW-K0079GEZZ	TACTILE SWITCH	S AA	AA
S 1002	QSW-K0079GEZZ	TACTILE SWITCH	S AA	AA
S 1003	QSW-K0079GEZZ	TACTILE SWITCH	S AA	AA
S 1004	QSW-K0079GEZZ	TACTILE SWITCH	S AA	AA
	QCNW-2621BMZZ	CON W (4)WAYS	S **	AE
(H)	QCNW-2836BMZZ	WIRE (H) 20" 21"	S AA	AD
(K)	QCNW-2837BMZZ	WIRE (K) 20" 21"	S AA	AE
	QSOCZ2107BMZZ	SOCKET	S IAF	AE
	CRDAR5510BMV5	RADIATOR SET POWER	S --	--
	CRDAR5525BMV0	RADIATOR SET	S --	--
<b>SOCKET UNIT</b>				
<b>TRANSISTORS</b>				
Q 0870	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S AA	AC
Q 0871	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S AA	AC
Q 0872	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S AA	AC
Q 0883	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S AA	AB
Q 0885	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S AA	AB
Q 0887	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S AA	AB
<b>DIODES</b>				
D 0811	RH-DX0045BMZZ	DIODE 1N4148	S AA	AA
D 0812	RH-DX0045BMZZ	DIODE 1N4148	S AA	AA
D 0880	RH-DX0045BMZZ	DIODE 1N4148	S AA	AA
D 0881	RH-DX0045BMZZ	DIODE 1N4148	S AA	AA
D 0882	RH-DX0045BMZZ	DIODE 1N4148	S AA	AA
<b>COILS</b>				
L 0881	VP-CF120K0000	PEAK COIL 12UH 10%	S IAB	AC

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
<b>CAPACITORS</b>				
C 0871	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
C 0872	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
C 0873	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
C 0874	VCKYPB2HB102K	CERAM C 1NF 10% 500V	S AA	AA
C 0876	VCKYPB3DE472Z	C DE1110-1E472Z2K MURATA	S AA	AC
C 0878	VCEAGA2DW106M	ELEC C 10UF 20% 200V	S AA	AC
C 0880	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
C 0881	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
C 0882	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S AA	AB
<b>RESISTORS</b>				
R 0879	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0880	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0881	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0882	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S AA	AA
R 0883	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S AA	AA
R 0884	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S AA	AA
R 0885	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S AA	AA
R 0886	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S AA	AA
R 0887	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S AA	AA
R 0892	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0893	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0894	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S AA	AA
R 0895	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0896	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
R 0899	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S AA	AA
RJ 0081	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S AA	AA
<b>MISCELLANEOUS PARTS</b>				
△	QSOCV0103BMZZ	SOCK HPS1521-014408 HOSHI	S AD	AG
	QTIPM0017CEFM	TIP	S AA	AA
<b>MISCELLANEOUS PARTS</b>				
△	QACCZ2100BMSA	AC CORD	S AH	AR
	VSP0010PBZ7WA	SPEAKER 16 OHM 4W DAIWA	S AD	AL
	RRMCG1060BMSA	R/C 37DT25S	S AM	AU
	TINS-6865BMN0	OWNERS MANUAL 51GT25S	S AB	AF
	QEARC0008BMZZ	C.EARTH ELECTROMONTAJES	S AB	AF
	QCNW-2689BMZZ	WIRE(S) 5460S	S AB	AE
	QCNW-3027BMZZ	WIRE MAT HR16504 DIEMEN	S AB	AG
<b>CABINET PARTS</b>				
1	CCABA1311BMV1	CABINET SET	S --	--
1.1	HBDGB3508BMSB	SHARP BADGE	S AC	AG
1.2	HDECQ0046BMSA	R/C DECORATION	S AA	AC
1.3	HDECQ0047BMSA	LED DECORATION	S AA	AC
1.4	JBTN-1059BMSA	UP/DOWN BUTTON	S AA	AD
1.5	JBTN-1058BMSA	POWER BUTTON	S AA	AC
△ 2	GCABB1091BMKA	REAR CABINET	S AN	AZ



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