

SANYO

Colour Television Service Manual

CE21DN9F-C

Model CE21DN9F-C

Service Ref. No. CE21DN9F-C-00

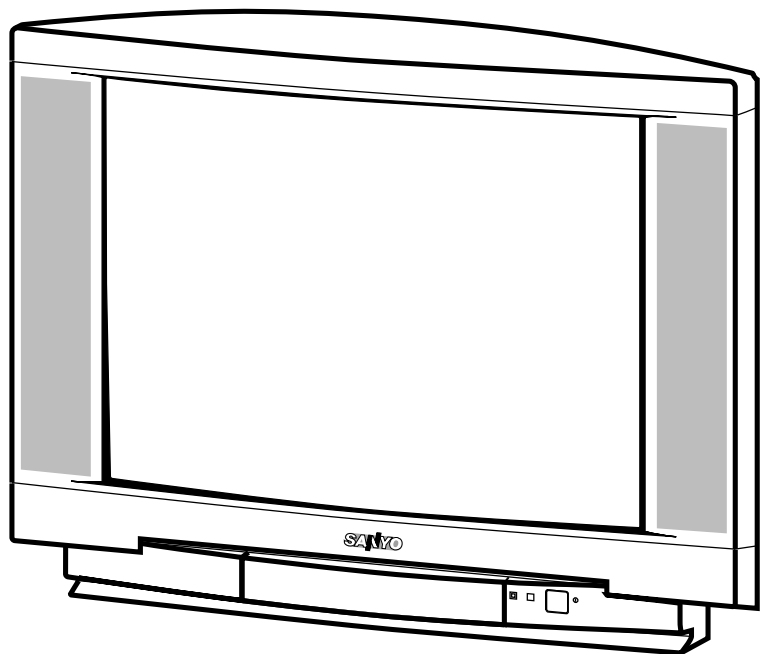
PRODUCT CODE: 111373519

ORIGINAL VERSION: Chassis No. **EB8-A**

Please use Schematic Diagram SKP20460
inserted with this Service Manual.

Give complete "SERVICE REF. NO." for parts
order or servicing, it is shown on the rating sheet
on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign
countries where the television transmission
system and power source differ from the design
specifications. Refer to the specifications for the
design specifications



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SAFETY PRECAUTION

- | | |
|--|--|
| <p>1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.</p> <p>2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.</p> | <p>3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.</p> |
|--|--|

X-RADIATION PRECAUTION

The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark \triangle . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark \triangle .

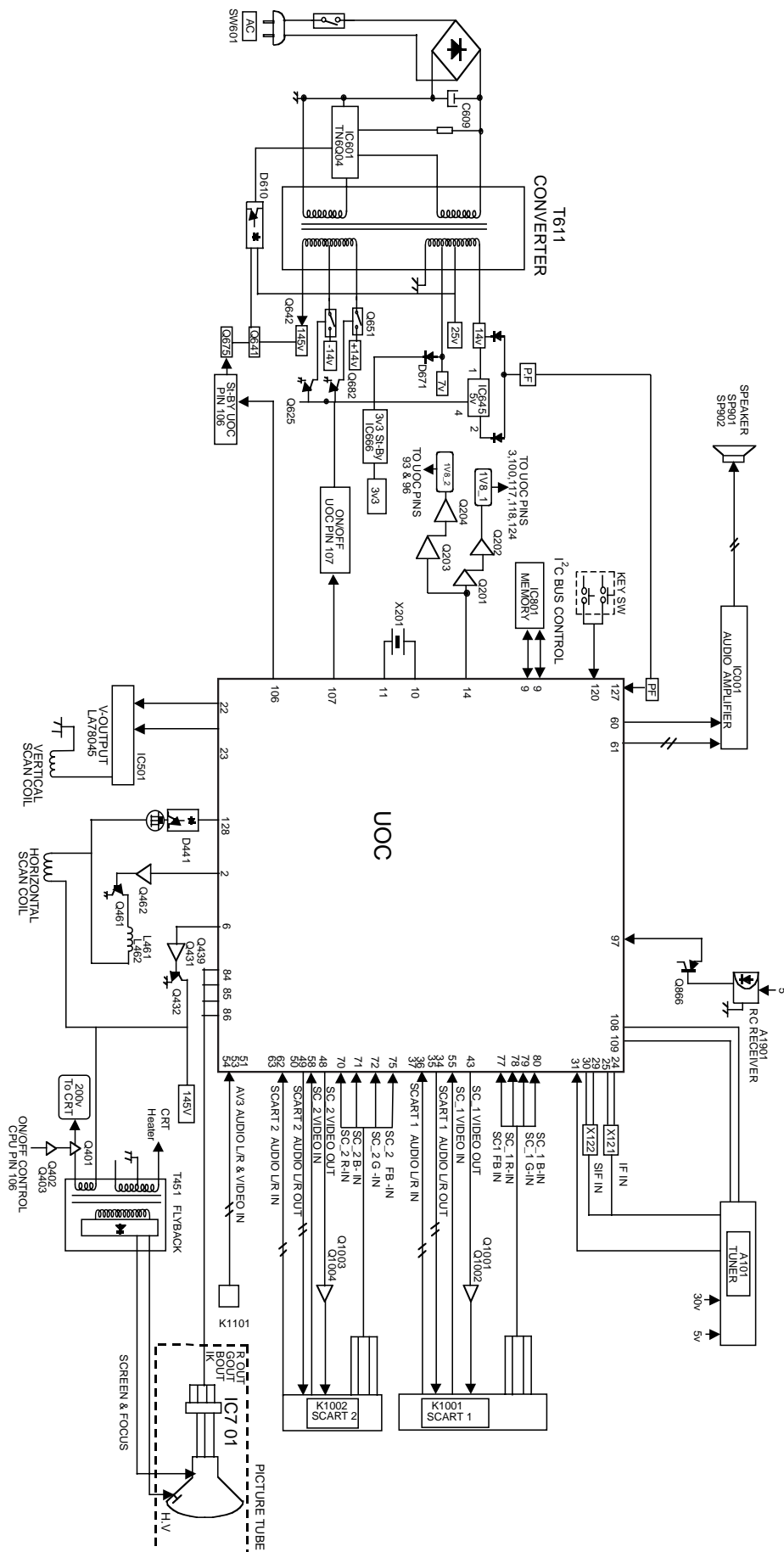
SPECIFICATIONS

<p>Power source</p> <p>Television system</p> <p>Colour system</p> <p>Receiving channel</p> <p>Aerial input impedance</p> <p>Rear AV terminal</p> <p style="padding-left: 20px;">AV1:</p> <p style="padding-left: 40px;">INPUT:</p> <p style="padding-left: 40px;">OUTPUT:</p> <p style="padding-left: 20px;">AV2:</p> <p style="padding-left: 40px;">INPUT:</p> <p style="padding-left: 40px;">OUTPUT:</p> <p>Sound output(Music)</p> <p>Dimensions (WxHxD)</p> <p>Weight</p>	<p>AC 220~240V, 50Hz</p> <p>B/G, D/K, I, L/L'</p> <p>PAL/NTSC4.43 (PAL/NTSC4.43/NTSC3.58 IN AV MODE)</p> <p>UHF: #21~69</p> <p>VHF: E2-E12, F2-F10, R1-R12</p> <p>CATV: X, Y, Z, S1-S41, B-Q</p> <p>75ohm</p> <p>CENELEC standard</p> <p>Composite video, RGB and Audio L/R</p> <p>TV-output with composite video and audio L/R</p> <p>CENELEC standard</p> <p>Composite video, RGB, S-VHS and Audio L/R</p> <p>Monitor output with composite video and Audio L/R</p> <p>5W x 2</p> <p>612x 476 x 482mm</p> <p>21 Kg</p>
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BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.

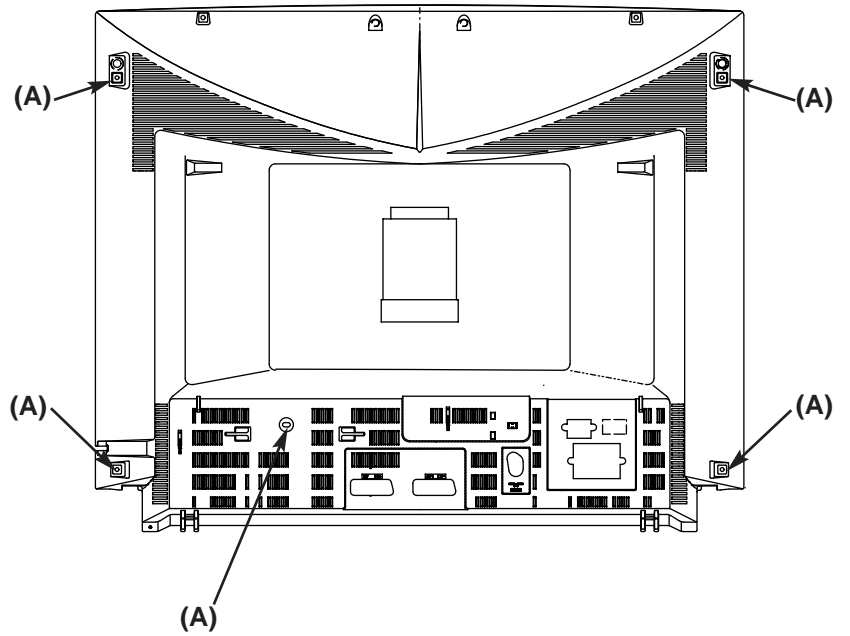
Outline



CABINET DISASSEMBLY

CABINET BACK DISASSEMBLY

1. Remove 5 screws(A) for 21"
2. Pull out the cabinet back.



OPTION SETTING

[After replacing the Memory IC (IC801)]

The memory IC, IC801, stores the option data of TV set and service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed to the following settings and "SERVICE ADJUSTMENT" on pages 6 to 9.

To enter to the Option Mode

+ Press and hold the **F/OK** button on the remote control and **P▼** button on the front panel of the TV. The option window will appear on the screen.

OPTION	
SORT MODE	SORTING
P&P	ON
WEL. TEXT	ON
AUTO VOLUME	OFF
SURROUND	OFF
VIRT SUB WOOFER	ON
COUNTRY	B/G, D/K, I, L/L'
WIDE	ON
AV3	OFF
TEXT NO SIGNAL	ON
AFC	OFF

⬆⬇ ADJUST : ⬆⬇ EXIT : RECALL

OPTION MODE FOR CE21DN9F-C-00

To set the Option Mode

- + Highlight the desired option item by using the **P▲** or **P▼** button .
- + To switch the option mode, use the **Volume - (LEFT)** or **Volume + (RIGHT)** button.
- + The data which is set in the option mode is stored into the memory IC automatically.

The following table shows the available option items and default setting mode.

<u>Option Mode</u>	<u>Mode</u>	<u>Description & Note</u>
SORT MODE	SORTING or TUNING	Tuning mode, default "SORTING"
P & P	ON or OFF	Plug & Play mode, default "ON"
WEL. TEXT	ON or OFF	Display message when first set up, default "ON"
AUTO VOLUME	ON or OFF	Auto volume default "OFF"
SURROUND	ON or OFF	Surround sound default "OFF"
VIRT SUB WOOFER	ON or OFF	Virtual Sub Woofer default "ON"
COUNTRY	UK or IRE or BG/DK / I / LL'	TV system, default "B/G, D/K, I, L/L"
WIDE	ON or OFF	Wide mode, default "OFF"
AV3	ON or OFF	Front AV disable, default "OFF"
TEXT NO SIGNAL	ON or OFF	Disables Text when no signal, default "ON"
AFC	ON or OFF	Auto Frequency Control default "OFF"

Exit from the Service Mode

+ Press the **MENU**  button.

SERVICE ADJUSTMENTS

After replacing the Memory IC (IC801)]

The memory IC, IC801, stores the service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed by using "OPTION SETTING" on previous page and the following adjustments.

ADJUSTABLE SERVICE ADJUSTMENT

Item No.	OSD	Description
7	VG2	Screen adjustment
151	WPR - N	R - Drive adjustment
152	WPG - N	G - Drive adjustment
304	AGC Take Over	AGC adjustment
314	TXT - H - POS	OSD Positioning adjustment

GEOMETRY SERVICE DATA

Service Item Number.	Symbol 1	Symbol 2	Explanation		
			Frequency	Wide Mode	
13	A01	Track. mode	50Hz	Full	Track. Mode(HCO)
14	A02	Vert. Zoom	50Hz	Full	Vertical zoom
15	A03	Vert. Slope	50Hz	Full	Vertical slope
16	A04	Vert. Shift	50Hz	Full	Vertical shift
17	A05	Vert. Ampl.	50Hz	Full	Vertical amplitude
18	A06	S-Corr.	50Hz	Full	S-correction
19	A07	V.Lin.Ctrl.	50Hz	Full	V.Lin.Ctrl.
20	A08	V.Linearity	50Hz	Full	V.Linearity
21	A09	EW Width	50Hz	Full	EW width
22	A10	Hor. Shift	50Hz	Full	Horizontal shift
23	A11	EW Parabola	50Hz	Full	EW parabola/width
24	A12	Trapezium	50Hz	Full	EW trapezium
25	A13	UC Parabola	50Hz	Full	EW upper corner parabola
26	A14	LC Parabola	50Hz	Full	EW lower corner parabola
27	A15	Hor. Bow	50Hz	Full	Horizontal bow
28	A16	Parallel	50Hz	Full	Horizontal parallelogram
29	A17	Vert. Scroll	50Hz	Full	Vertical Scroll
30	A18	H BLK SW	50Hz	Full	RGB blanking mode
31	A19	H BLK L	50Hz	Full	Timing of wide blanking front(WBF)
32	A20	H BLK R	50Hz	Full	Timing of wide blanking rear(WBR)
33	A21	OSVE	50Hz	Full	Black current measuring lines in overscan
34	A22	EVB	50Hz	Full	Extended vertical blanking
35	B02	Vert. Zoom	50Hz	Natural / or 4:3 squeeze mode	Vertical zoom
36	B09	EW Width	50Hz	Natural / or 4:3 squeeze mode	EW width
37	B10	Hor. Shift	50Hz	Natural / or 4:3 squeeze mode	Horizontal shift
38	B11	EW Parabola	50Hz	Natural / or 4:3 squeeze mode	EW parabola/width
39	B12	Trapezium	50Hz	Natural / or 4:3 squeeze mode	EW trapezium
40	B13	UC Parabola	50Hz	Natural / or 4:3 squeeze mode	EW upper corner parabola
41	B14	LC Parabola	50Hz	Natural / or 4:3 squeeze mode	EW lower corner parabola
42	B15	Hor. Bow	50Hz	Natural / or 4:3 squeeze mode	Horizontal bow
43	B16	Parallel	50Hz	Natural / or 4:3 squeeze mode	Horizontal parallelogram
44	B17	Vert. Scroll	50Hz	Natural / or 4:3 squeeze mode	Vertical Scroll

IMPORTANT NOTICE

Do not attempt to adjust service adjustments not listed above otherwise it may cause loss of performance and product safety.

To enter to the Service Mode

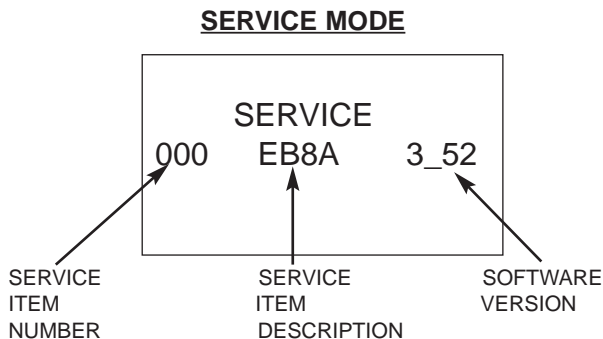
+ Press and hold the **GREEN** button on the remote control and then press the **P▼** button on the cabinet.

To select the service item and change data value

+ To select the adjustment item, use the **P▲** or **P▼** button.

+ To change the service data, use the **Volume -(LEFT)** or **Volume + (RIGHT)** button.

+ The data which is set in the service mode is stored into the memory IC automatically.



Exit from the Service Mode

+ Press the **MENU** button or turn off the TV set by using the Mains switch.

INITIALISATION OF MEMORY IC

To initialise the memory IC (IC801), press and hold the **NORMAL** →•← button on the remote control, then press the **P▼** button on the front panel of the TV set. The tv set will switch into standby mode. Turn the Mains switch Off and On, then switch on from standby. The initialisation is now completed.

When initialised the memory IC and all of the setting data (option data and service adjustment data) stored in the IC are reset to the default value. It is necessary to set the option settings and readjust the service adjustments listed in this manual and to re-tune all the channels.

ADJUSTMENTS

IMPORTANT NOTICE

Do not attempt to adjust the following service adjustments except when adjustments are required in servicing otherwise it may cause loss of performance and product safety.

+ B VOLTAGE ADJUSTMENT

1. Receive white raster pattern.
2. Set controls to normal.
3. Connect digital voltmeter to test point TP-B and GND.
4. Adjust voltage to $115 \pm 0.5V$ by using VR641.

AGC ADJUSTMENT

1. Input and tune an RF signal which is UHF to the clearest station.
2. Connect digital voltmeter to test point TP-A and GND.
4. Enter the service mode and select item no. 304. AGC TAKE OVER
5. Press the **LEVEL+** or **LEVEL -** button to adjust voltage to be 3.2Vdc.

FOCUS ADJUSTMENT

By using FOCUS VR, adjust focus control for well defined scanning lines.

GREY SCALE ADJUSTMENT

SCREEN ADJUSTMENT

1. Receive black and white pattern.
2. Enter the service mode and select item no. 7. VG 2
3. Turn screen VR from min to max. OSD will change from below to above. Turn back until below appears and then stop turning.

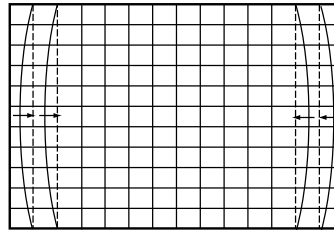
DRIVE ADJUSTMENT

6. Select item no.151. WPR - N (R-Drive) or 152. WPG - N (G-Drive) and adjust both initially to 20.
7. Change data value of each item by using **LEVEL +** or **LEVEL -** button to obtain the proper white balance.

PCC ADJUSTMENT

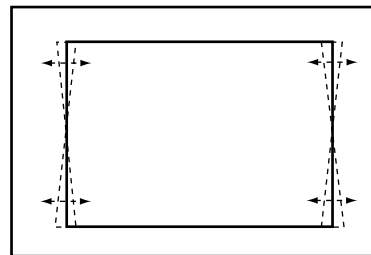
PCC ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 23. EW PARABOLA
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical line to be straight.



TRAPEZOID ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 24. TRAPEZIUM
3. Press the **LEVEL+** or **LEVEL -** button to correct the trapezoid distortion of the vertical line.



CORNER ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 25. UC PARABOLA for top corner adjustment OR item no. 26. LC PARABOLA for bottom corner adjustment.
3. Press the **LEVEL+** or **LEVEL -** button to correct the distortion of the vertical line around the corners.

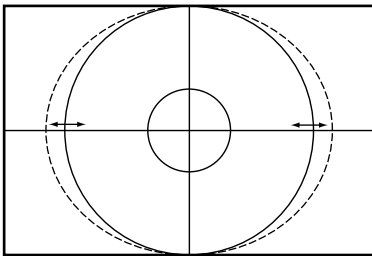
HORIZONTAL ADJUSTMENT

HORIZONTAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 22. HOR. SHIFT.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal centre.

HORIZONTAL WIDTH ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter to the service mode and select item 21. EW WIDTH.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the horizontal width.



HIGH-VOLTAGE CONFIRMATION

1. Receive circular pattern and set screen mode to "FULL".
2. Set controls for brightness and contrast to maximum.
3. Connect high-voltage meter to the anode of CRT and GND.
4. Confirm that voltage is 26 kV \pm 1.0kV at maximum beam current 1.2mA \pm 0.05

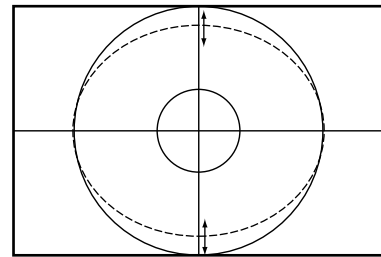
VERTICAL ADJUSTMENT

VERTICAL CENTRING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter the service mode and select item no.16.VERT SHIFT.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical centre.

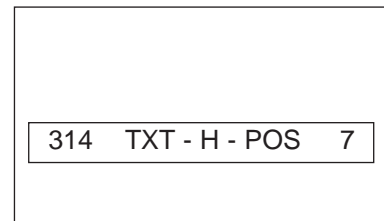
VERTICAL HEIGHT ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 17. VERT AMPL.
3. Press the **LEVEL+** or **LEVEL -** button to adjust the vertical height.



OSD POSITIONING ADJUSTMENT

1. Receive circular pattern and set screen mode to "FULL".
2. Enter the service mode and select item no. 314. TXT - H - POS.
3. Press the **LEVEL+** or **LEVEL -** button to adjust proper OSD positioning.



CPU PORT FUNCTIONS

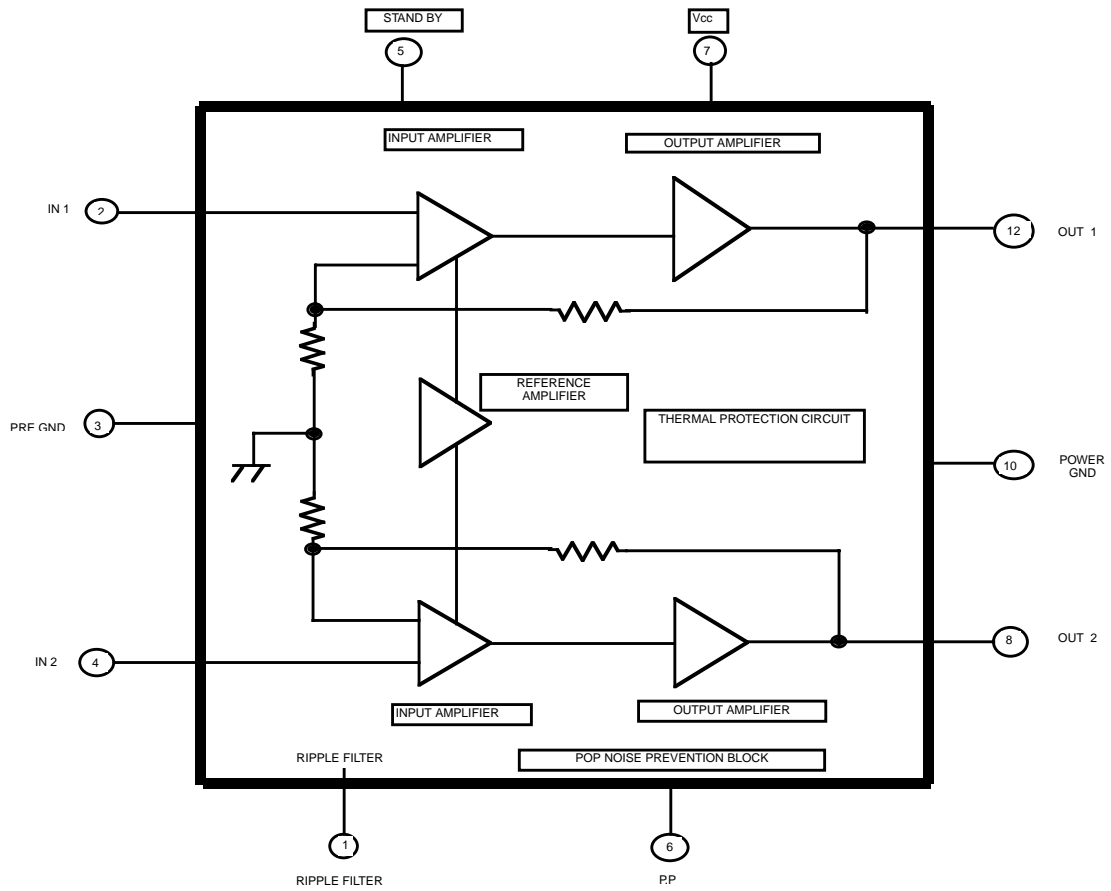
Pin No	Function Name	Function	In/Out
1	VSS	Gnd	--
2	VSS	Gnd	--
3	1v8_1	1.8v Supply	--
4	3v3	3.3v Supply	--
5	Vref	3.3v Reference	--
6	Vref	V Ref Gnd	--
7	Vref	3.3v Reference	--
8	Vref	V Ref Gnd	--
9	Vref	3.3v Reference	--
10	XTAL IN	Clock Oscillator	In
11	XTAL OUT	Clock Oscillator	Out
12	Vss	Gnd	--
13	Vguard sw		--
14	Dec Dig	1.8v source supply	Out
15	5v	5v Supply	--
16	Phi 2	Phi 2	--
17	Phi 1	Phi 1	--
18	Gnd	Gnd	--
19	Sec pii		--
20	Dec BG		--
21	EW Drive	parabola out	Out
22	VdrB	Vertical drive B	Out
23	VdrA	Vertical drive A	Out
24	Vif 1	Vision IF 1	In
25	Vif 2	Vision IF 2	In
26	Vsc		--
27	I Ref	Reference current	--
28	Gnd	Gnd	--
29	Sif 1	Sound IF 1	In
30	Sif 2	Sound IF 2	In
31	Agc	Auto matic gain control	In
32	Eht	Eht	In
33	SSif/Ref Iin/Avl/Ref Out		--
34	Audio in Scart L		In
35	Audio in Scart R		In
36	Audio Out Scart L		Out
37	Audio Out Scart R		Out
38			--
39	Qsso/Amo/AudioEm		--
40	Gnd		--
41	PLL IF	Phase Lock Loop If	--
42	SifAgc	SifAgc	--
43	IFVo	Scart 1 Video	Out
44	FmRo		--
45	V8Audio Switches		--
46	AgcsSif		--
47	V5P2	5v Supply	--
48	Svo/IfVo/Cbvs1	Scart 2 Video	Out
49	Audio4 L In	Scart 2 Audio L	In
50	Audio4 R In	Scart 2 Audio R	In
51	Y4/Cvbs4	Av3 Video	In
52	C4		--
53	Audio2InL	Av3 Audio L	In
54	Audio2InR	Av3 Audio R	In
55	Cvbs2/y	Scart 1 Video	In
56	Audio3InL		--
57	Audio3InR		--
58	Y3/Cvbs	Scart 2 Video	In
59	C3	Scart 2 Chroma In	In
60	Audio Out L SL	Audio out Left Speaker	Out
61	Audio Out L SR	Audio Out Right Speaker	Out
62	Audio Out HPL	Scart Audio L Out 2 / monitor Out	Out
63	Audio Out HPR	Scart Audio R Out 2 / monitor Out	Out
64	Pip		--

CPU PORT FUNCTIONS (continued)

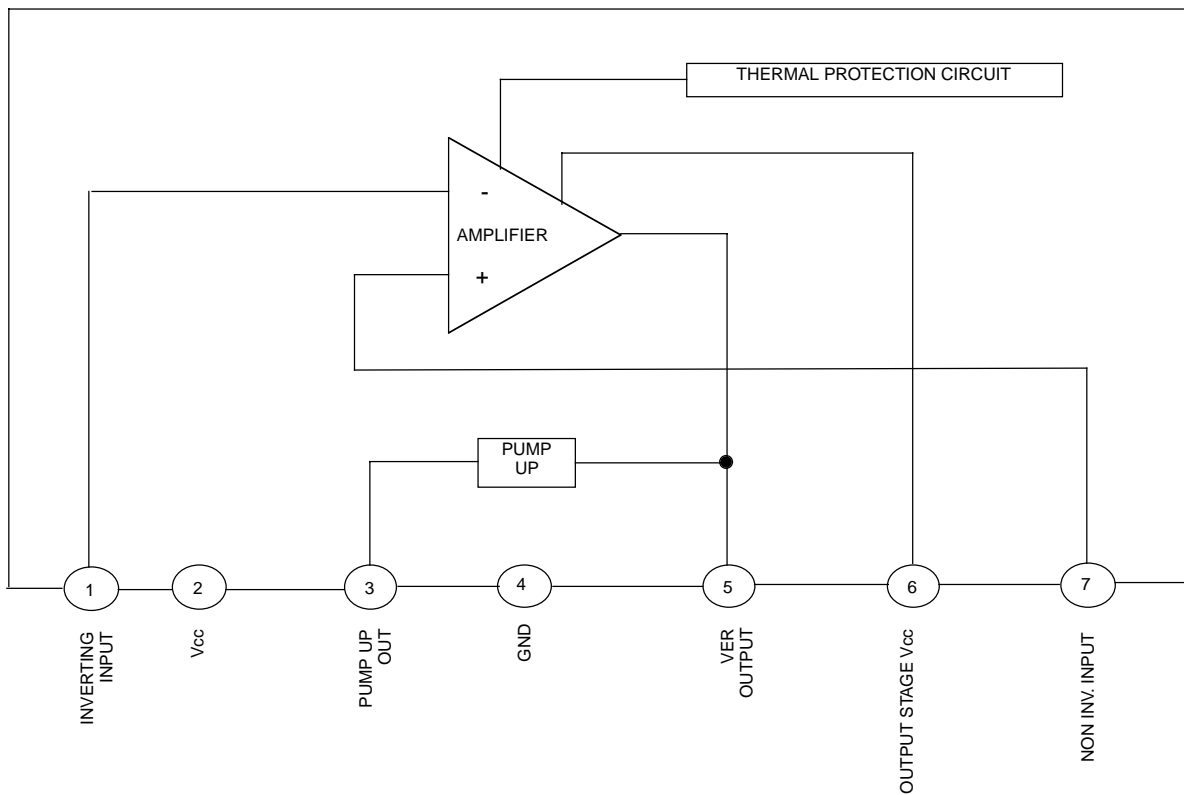
Pin No	Function Name	Function	In/Out
65	SVM	Scan Velocity Modulation	Out
66	FbiSo	Flyback In SandCastle Out	In/out
67	Hout	Horizontal Drive Out	Out
68	VssComb	Gnd	
69	V5Comb	5v Supply	--
70	Vin/R2/Pr	Scart 2 R-In	In
71	Uin/B2/Pb	Scart 2 B-In	In
72	Yin/G2/Y	Scart 2 G-In	In
73	Y Sync	Y Sync	In
74	Y out	Yout	Out
75	Uout/Fb in	Scart 2 Fast Blanking	In
76	Vout/Sw01		--
77	Fbl3	Scart 1 Fast Blanking	In
78	R3/Pr	Scart 1 R-In	In
79	G3/Y	Scart 1 G-In	In
80	B3/Pb	Scart 1 B-In	In
81	Gnd 3	Gnd	--
82	V5P3	5vSupply	--
83	BCL	Beam Current Limiting	In
84	Iblack		--
85	Rout	Red Drive	Out
86	Gout	Green Drive	Out
87	Bout	Blue Drive	Out
88	V3.3A1	3.3v Supply	--
89	RefAdn	Ref Gnd	--
90	V3.3RefAdp	3.3v Supply	--
91	RefAd		--
92	GndA	Gnd	--
93	V1.8A	1.8v Supply	--
94	V3.3A2	3.3v Supply	--
95	VssAdc	Gnd	--
96	V1.8Adc	1.8v Supply	--
97	Into	Remote control In	In
98	P10/Int1	SCI	In/out
99	P121/TO	SDA	In/out
100	V1.8C2	1.8v Supply	--
101	VssC2	Gnd	--
102	P04/I2Sws		--
103	P03/I2SCLk		--
104	P02/I2SDOC		--
105	P01/I2SDOC		--
106	P00/I2SDi1	StandBy	Out
107	P13/T1	On/Off	Out
108	P16/SCL	SCL	In/out
109	P17/SDA	SDA	In/out
110	V3.3P	3.3v Supply	--
111	P20/Tpwm	Relay On/Off	Out
112	P21/Pwmo	LED Drive	Out
113	STATUS	Status	In/out
114	ALK	Alk	In/out
115	P30/Adco	Scart 1 Pin8 Function	In
116	P31/Adc1	Scart 2 Pin8 Function	In
117	V1.8C1	1.8v Supply	--
118	DecV1v8	1.8v Supply	--
119	P32/Adc2	AGC	In
120	P33/Adc2	Key scan in	In
121	VssC1+P1	Gnd	--
122	P24/Pwm3	Audio Mute	Out
123	P25/Pwm4	L/L' switch (Export only)	Out
124	V1.8C3	1.8v Supply	--
125	Vssc3	Gnd	--
126	P12/Int2		--
127	P14/Rx	Power Fail	In
128	P:15/Tx	Natural Wide Switch	

IC BLOCK DIAGRAMS

IC001 LA42052 <Audio Output>

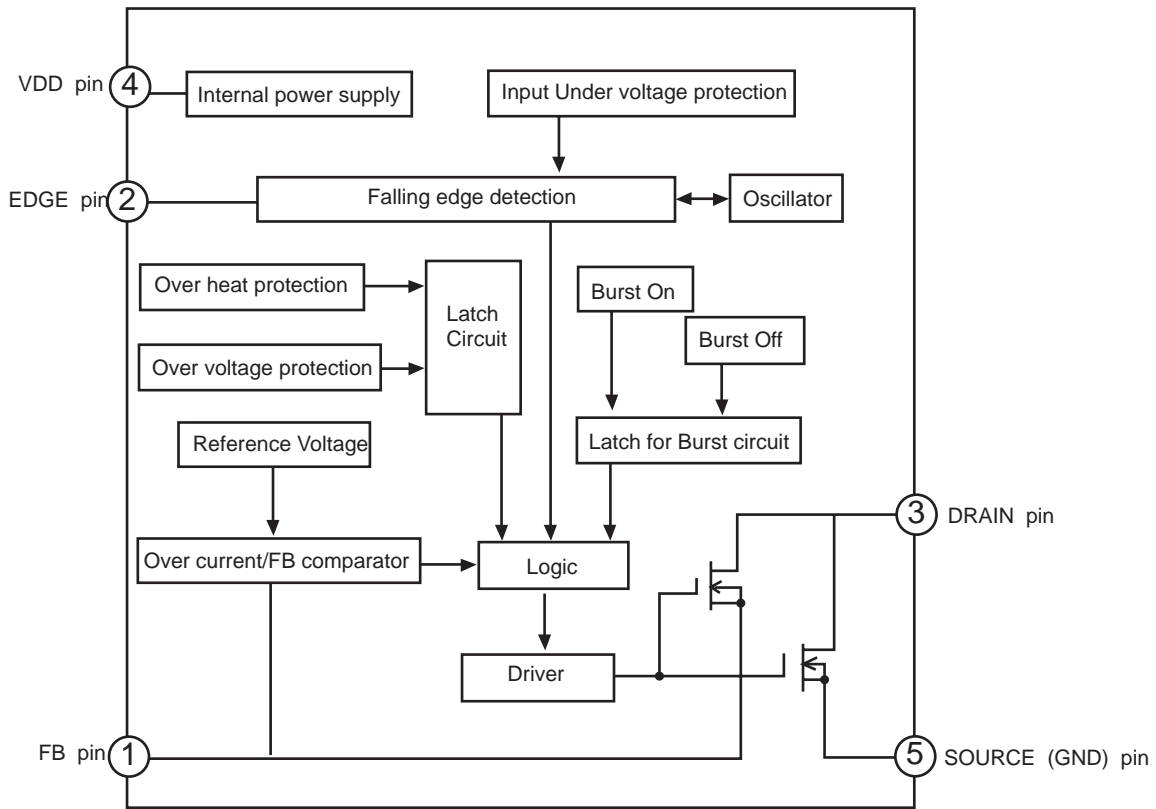


IC501 LA78041 <Vertical Output>

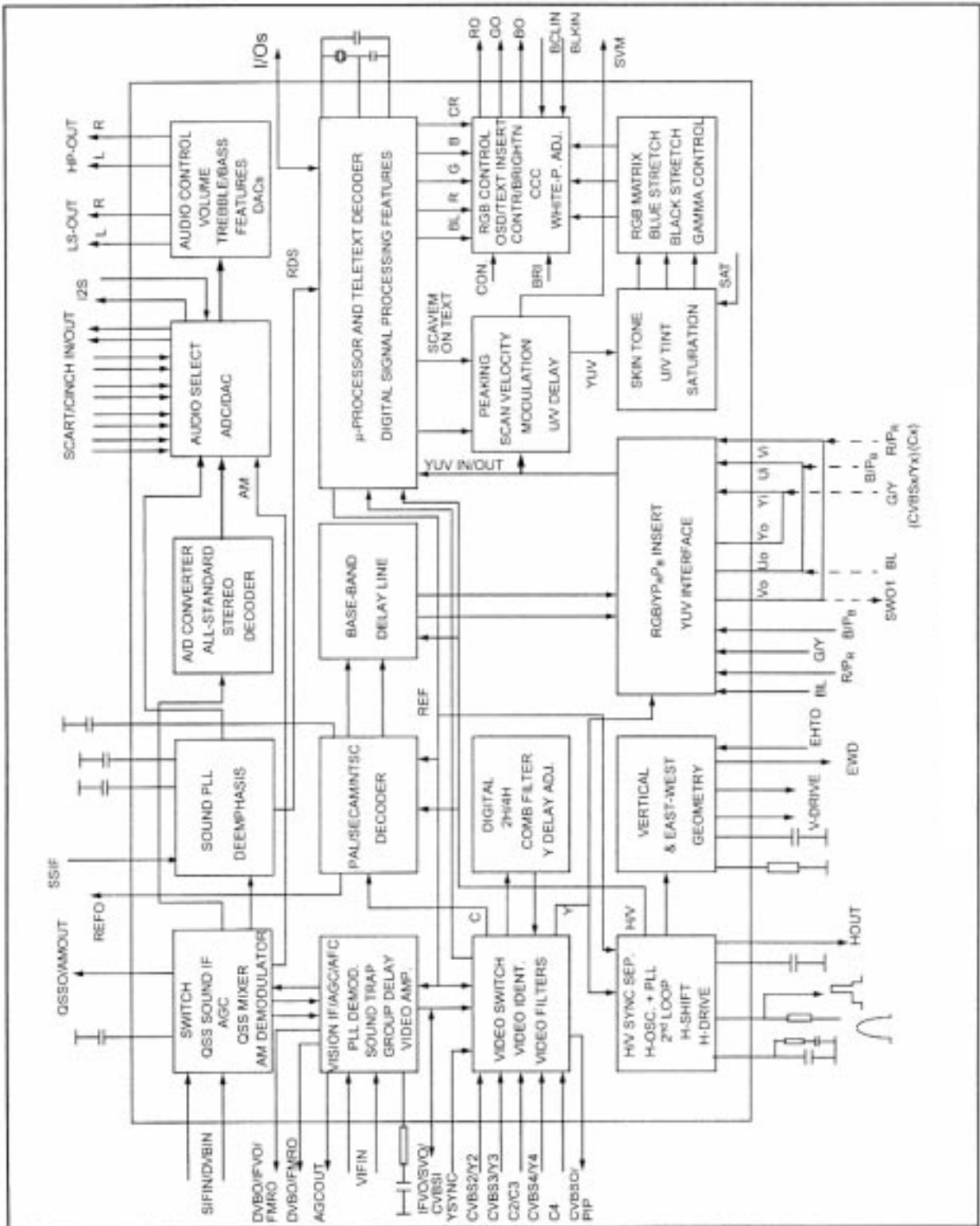


IC601

Block Diagram TN6Q03/04

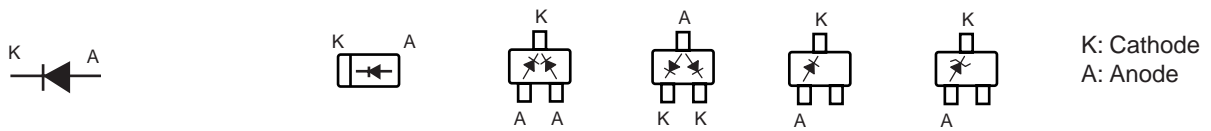


BLOCK DIAGRAMS

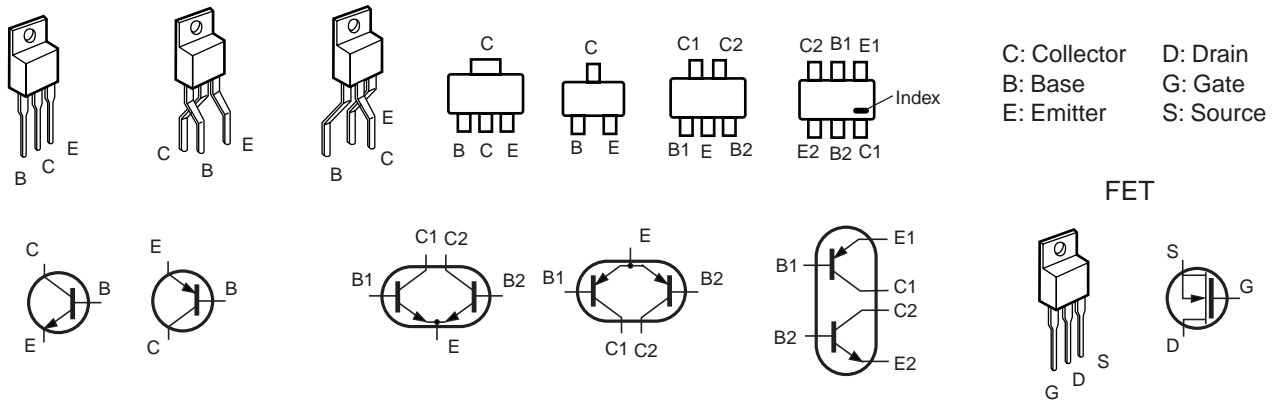


PIN DESCRIPTION OF SEMICONDUCTORS

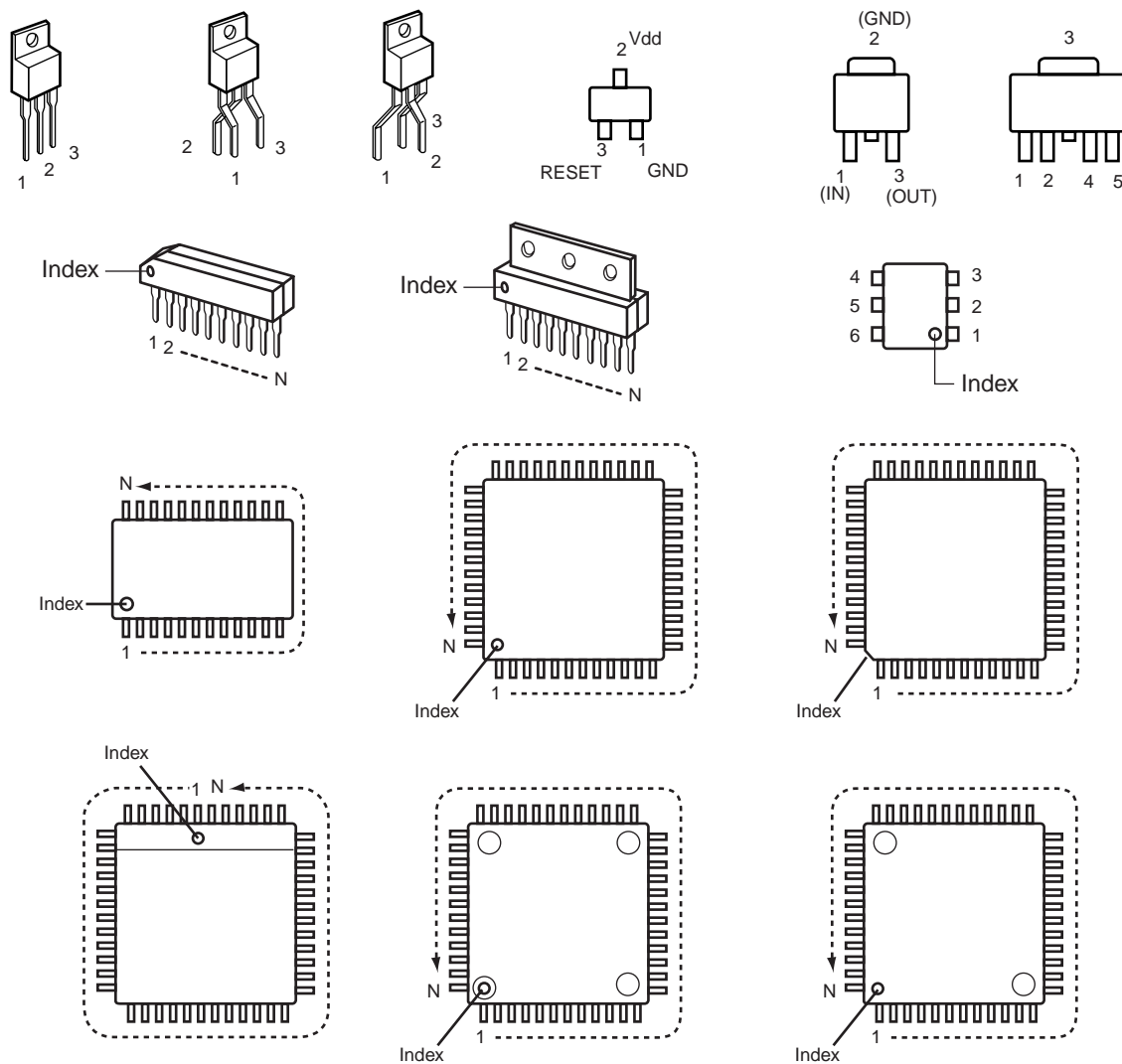
● Diode



● Transistor/FET



● IC



PARTS DESCRIPTION AND READING IN SCHEMATIC DIAGRAM

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video colour bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading

Example 2000 K K 1000 BG

Example 160 E M 10

Characteristic

Capacitance value

Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.

Tolerance

Type

Rated voltage

Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-Polarised)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalised polypropylene
H	Metalised polypropylar
B	Ceramic (semiconductor)
G	Metalised polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading

Example L2 C1 4R7 K N

Tolerance

Inductance value

Manufacture code

Unique code

Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading

Example 1/2 D J 10K B

Example 6 W K 8.2

Example 1/2 C K 1M

Characteristic

Z (Carbon fuse)

B (Non-burnable)

Resistance value

Tolerance (see below table)

Material (see below table)

Rated wattage (W)

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
--	1S1555,1S2473,1S2076,1SS133,DS442,1SS176
K	1S1555,1S2473,1S2076,DS442
L	1S1555,1S2076A,1S2471
M	1SS133,1SS176,GMA01
N	1S1555,1S2473,1S2076,1SS133,DS442,1SS176,1N4148
P	1S1555,1S2076A,1S2471,1N4148
R	1S1555,1S2076,1S2473,DS442,1N4148
AA	1S1555,1S2076,1S2473,1SS133,DS442,1SS176,1N4148,GMA01

Transistor (NPN type)

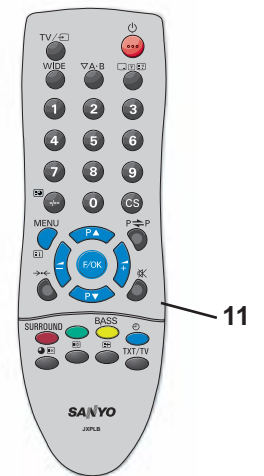
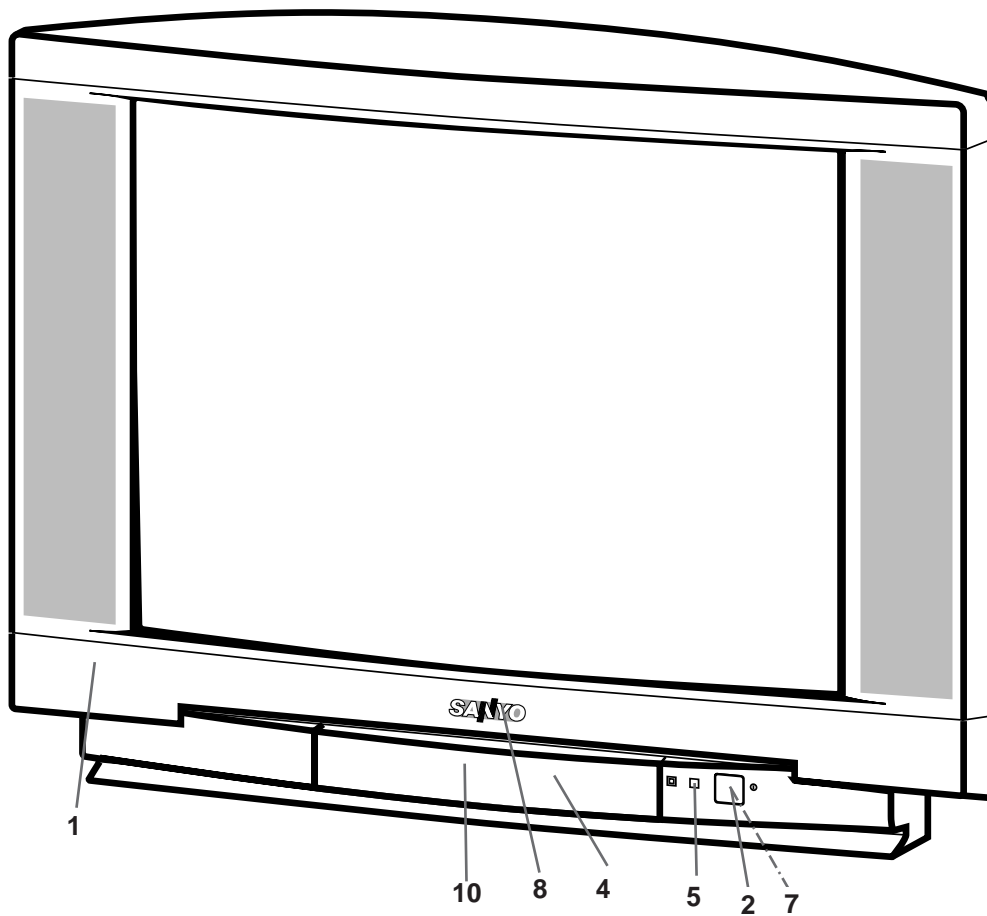
Mark	Type number					
--	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S	KSC945C
A	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
B	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
D	F, G	P, Q	Y, G	Q, R, S		
F	F, G	P	G	R, S		
H	F, G	P, Q	Y, G	Q, R, S		Y, G
I	E, F, G	P, Q, R	O, Y, G	Q, R, S		Y, G
G	F, G	P	G	R, S		G
AD	F, G	Q, R	Y, GR		Q, R, S	
AE	E, F, G	Q, R	O, Y, GR		Q, R, S	

Transistor (PNP type)

Mark	Type number					
--	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KSA733C
Y	E, F	Q, R	O, Y, G	Q, R		
W	F	R	Y, G	R		
V	E, F	Q, R	O, Y, G	Q, R		Y, G
U	F	R	Y, G	R		G
Z	E, F	Q, R	O, Y, G	Q, R	Q, R	
AB	F	R	Y		Q, R	
AE	E, F	Q, R	O, Y		R	

CABINET PARTS LIST FOR MODEL CE21DN9F-C-00

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Item	Part No.	Description
CABINET PARTS		
1	665 000 2869	CABINET FRONT-C6KZ
2	665 000 1664	BUTTON POWER-F7WC
3	610 286 6612	CABINET BACK G-F7KC
4	610 278 4916	DOOR-F7WT
5	610 276 5656	DEC IND-F7WC
6	610 253 2449	AC CORD HOLDER-U-D4VA
7	610 261 3032	COIL SPRING-E7GCS
8	645 043 5058	BADGE, SANYO*53. 5X12L53. 3
9	610 265 4202	HOLDER DC GBR-F3SC
10	645 019 2449	LATCH PUSH, 7. 9X6. 9BK
ACCESSORIES		
11	JXPLA	RC TRANSMITTER
	645 054 9533	BATTERY ENERGIZER R6SH2VP
	665 000 1411	INST MANUAL-C6KZ/WY (1)
	665 000 1428	INST MANUAL-C6KZ/WY (2)
	665 000 1435	INST MANUAL-C6KZ/WY (3)

CHASSIS ELECTRICAL PARTS LIST

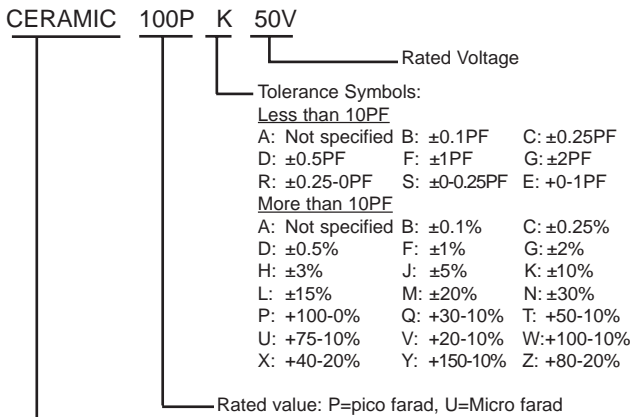
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark Δ .

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

	Ref. No.	Part No.	Description
Chassis construction			
CE28DN9F-C-00			
		013C6KZV	ELECTRICAL PARTS (PAGE 19)
		1AA0B10H069DA	ASSY,PWB,MAIN C6KZV (PAGE 19 - 24)
		1AA0B10H069DB	ASSY,PWB,SOCKET C6KZV (PAGE 24)
.....			
		013C6KZV	ELECTRICAL PARTS
COIL			
	Δ L901	645 034 1267	DEGAUSS COIL 21" 42T*. 425
PICTURE TUBE			
	Δ Q901	414 011 4306	CRT A51EFS83X191
MISCELLANEOUS			
	Δ SP901	652 000 0663	SPEAKER 8 OHM 3 WATT 5*9
	Δ SP902	652 000 0663	SPEAKER 8 OHM 3 WATT 5*9
	Δ W901	645 012 7632	EURO PLUG +2P HOUSE @ 2.1
	W902	665 000 2135	GND CON. EB8A 21+24W 2P
		1AA0B10H069DA	ASSY,PWB,MAIN C6KZV
CAPACITOR			
C003	403 314 5915	GRM21BR71C474KA01L	PT297
C004	403 314 5915	GRM21BR71C474KA01L	PT297
C005	403 215 2310	GRM188R71H123KA01D	PT115
C006	403 215 2310	GRM188R71H123KA01D	PT115
C009	403 199 9718	25 YK 470 M TA K1012	
C010	403 199 9718	25 YK 470 M TA K1012	
C021	403 218 8101	ELECT 100U M 25V	
C022	403 233 1517	50 YK 4R7 M TA 0511	
C023	403 218 8151	25 YK 1000 M TA 1020	
C030	403 113 3815	GRM188R71H102KA01D	PT115
C031	403 086 3802	NP- ELECT 10U M 50V	
C032	403 086 3802	NP- ELECT 10U M 50V	
C033	403 215 2211	GRM188R71H103KA01D	PT115
C034	403 215 2211	GRM188R71H103KA01D	PT115
C035	403 215 2211	GRM188R71H103KA01D	PT115
C036	403 215 2211	GRM188R71H103KA01D	PT115
C040	403 113 4119	GRM188R71H222KA01D	PT115
C053	403 157 4212	GRM1885C1H221JZ01D	PT115
C055	403 157 4212	GRM1885C1H221JZ01D	PT115
C057	403 113 3815	GRM188R71H102KA01D	PT115
C1001	403 248 1618	16 YK 47 M TA 0511	
C1003	403 157 3611	GRM1885C1H101JZ01D	PT115
C1005	403 113 3815	GRM188R71H102KA01D	PT115
C1006	403 157 3611	GRM1885C1H101JZ01D	PT115
C1007	403 113 3815	GRM188R71H102KA01D	PT115
C101	403 233 1111	ELECT 22U M 50V	
C1011	403 248 1618	16 YK 47 M TA 0511	
C1013	403 157 3611	GRM1885C1H101JZ01D	PT115
C1014	403 157 3611	GRM1885C1H101JZ01D	PT115
C1016	403 113 3815	GRM188R71H102KA01D	PT115
C1017	403 113 3815	GRM188R71H102KA01D	PT115
C102	403 039 3527	ELECT 470U M 6.3V	
C1038	403 323 8815	GRM21BF51C225ZA01K	PT115
C1039	403 323 8815	GRM21BF51C225ZA01K	PT115
C104	403 233 0817	ELECT 10U M 50V	
C106	403 215 2211	GRM188R71H103KA01D	PT115
C107	403 215 2211	GRM188R71H103KA01D	PT115
C109	403 113 3815	GRM188R71H102KA01D	PT115

Read description in the Capacitor and Resistor as follows:

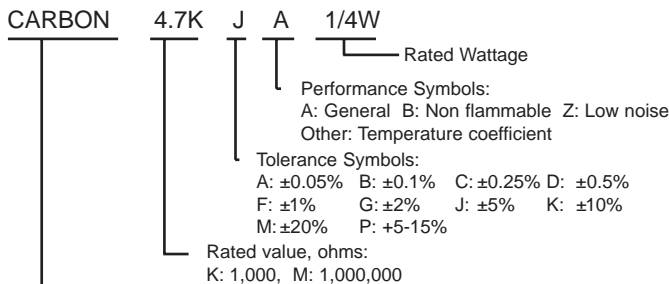
CAPACITOR



Material:

- CERAMICCeramic
- MT-PAPERMetallized Paper
- POLYESTERPolyester
- MT-POLYESTMetallized Polyester
- POLYPRO.....Polypropylene
- MT-POLYPROMetallized Polypropylene
- COMPO FILM.....Composite film
- MT-COMPOMetallized Composite
- STYRENE.....Styrene
- TA-SOLIDTantalum Solid
- AL-SOLIDAluminium Solid
- ELECTElectrolytic
- NP-ELECTNon-polarised Electrolytic
- OS-SOLIDAluminium Solid with Organic Semiconductive Electrolytic
- DL-ELECTDouble Layered Electrolytic

RESISTOR



Material:

- CARBONCarbon
- MT-FILMMetal Film
- OXIDE-MTOxide Metal Film
- SOLIDComposition
- MT-GLAZEMetal Glaze
- WIRE WOUNDWire Wound
- CERAMIC RES.....Ceramic
- FUSIBLE RESFusible

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C110	403 113 4119	GRM188R71H222KA01D PT115	C282	403 269 5916	GRM219R71C224KC01D PT115
C121	403 067 6274	POLYESTER 0.15U J 50V	C283	403 042 2425	ELECT 100U M 16V
C122	403 215 2211	GRM188R71H103KA01D PT115	C284	403 164 0214	GRM188F51E104ZA01D PT115
C123	403 113 3815	GRM188R71H102KA01D PT115	C286	403 269 5916	GRM219R71C224KC01D PT115
C126	403 215 2211	GRM188R71H103KA01D PT115	C287	403 164 0214	GRM188F51E104ZA01D PT115
C127	403 215 2211	GRM188R71H103KA01D PT115	C288	403 042 2425	ELECT 100U M 16V
C131	403 215 2211	GRM188R71H103KA01D PT115	C289	403 269 5916	GRM219R71C224KC01D PT115
C1901	403 195 8824	ELECT 100U M 16V	C293	403 207 0317	GRM21BF51C105ZA01L PT297
C1902	403 195 8824	ELECT 100U M 16V	C401	403 215 2211	GRM188R71H103KA01D PT115
C200	403 215 2211	GRM188R71H103KA01D PT115	C402	403 215 2211	GRM188R71H103KA01D PT115
C201	403 269 5916	GRM219R71C224KC01D PT115	C420	403 165 6720	DEHR33F681KN3A P335
C202	403 269 5916	GRM219R71C224KC01D PT115	C423	403 343 7614	MT-POLYPRO 11000P H 1.5K
C203	403 038 3409	ELECT 1000U M 6.3V	C425	403 076 3617	CERAMIC 470P K 500V
C204	403 164 0214	GRM188F51E104ZA01D PT115	C432	403 075 7111	DD07-959B102K500 P333
C205	403 241 3817	10 YK 220 M TA 0511	C433	403 076 3112	DD11-959B392K500 P333
C206	403 241 3817	10 YK 220 M TA 0511	C434	403 054 0713	ELECT 47U M 35V
C207	403 269 5916	GRM219R71C224KC01D PT115	C436	403 036 2513	CERAMIC 47P J 500V
C208	403 323 8815	GRM21BF51C225ZA01K PT115	C437	403 066 6106	MT-POLYEST 0.47U J 250V
C209	403 195 8824	ELECT 100U M 16V	C439	403 314 5915	GRM21BR71C474KA01L PT297
C210	403 241 3817	10 YK 220 M TA 0511	C441	403 346 6713	ECWF2184N583 MT-POLY PANA
C211	403 164 0214	GRM188F51E104ZA01D PT115	C443	403 346 6713	ECWF2184N583 MT-POLY PANA
C212	403 215 2211	GRM188R71H103KA01D PT115	C445	403 233 0817	ELECT 10U M 50V
C213	403 157 7312	GRM188R71H682KA01D PT115	C451	404 056 5208	NP-ELECT 100NA2R2MFA-5X11
C214	403 248 1410	50 YK 1R0 M TA 0511	C481	403 281 9302	ELECT 10U M 250V
C215	403 157 1914	GRM1885C1H100JZ01	C501	403 148 0424	ELECT 1000U M 25V
C216	403 269 5916	GRM219R71C224KC01D PT115	C502	403 148 0424	ELECT 1000U M 25V
C217	403 284 4314	CERAMIC 0.022U K 50V	C503	403 050 4408	ELECT 220U M 50V
C218	403 323 8815	GRM21BF51C225ZA01K PT115	C505	403 036 0816	DD05-989SL390J500 P333
C219	403 113 3815	GRM188R71H102KA01D PT115	C506	403 067 7895	MT-COMPO 0.47 J 50V
C220	403 157 1914	GRM1885C1H100JZ01	C507	403 179 2319	POLYESTER 2700P K 50V
C221	403 113 3815	GRM188R71H102KA01D PT115	C521	403 113 4119	GRM188R71H222KA01D PT115
C222	403 323 8815	GRM21BF51C225ZA01K PT115	C529	403 233 0817	ELECT 10U M 50V
C223	403 314 5915	GRM21BR71C474KA01L PT297	C531	403 113 4119	GRM188R71H222KA01D PT115
C224	403 314 5915	GRM21BR71C474KA01L PT297	△ C601	404 060 7205	MT-POLYEST 0.1U M 250V
C225	403 314 5915	GRM21BR71C474KA01L PT297	△ C602	404 060 7205	MT-POLYEST 0.1U M 250V
C226	403 323 8815	GRM21BF51C225ZA01K PT115	C603	403 076 6727	DEBB33A102KP3A P335
C227	403 323 8815	GRM21BF51C225ZA01K PT115	C604	403 076 6727	DEBB33A102KP3A P335
C228	403 164 0214	GRM188F51E104ZA01D PT115	△ C605	404 088 3104	DE1E3KX102MB5BM37
C229	403 233 0817	ELECT 10U M 50V	C609	404 098 2609	ELECT LLU2G271MHLB
C231	403 155 2210	GRM188R71H332KA01D PT115	C611	403 157 2911	GRM1885C1H470JZ01D PT115
C232	403 164 0214	GRM188F51E104ZA01D PT115	C612	403 077 6716	CERAMIC 330P K 2K
C233	403 248 2813	50 YK 2R2 M TA 0511	C614	403 233 1507	ELECT 47U M 50V
C234	403 164 0214	GRM188F51E104ZA01D PT115	C616	403 067 0905	MT-POLYEST 0.01U K 630V
C236	403 233 0817	ELECT 10U M 50V	C618	403 056 7304	POLYESTER 1000P J 50V
C237	403 323 8815	GRM21BF51C225ZA01K PT115	△ C621	404 088 3104	DE1E3KX102MB5BM37
C238	403 164 0214	GRM188F51E104ZA01D PT115	△ C631	404 088 3104	DE1E3KX102MB5BM37
C239	403 233 0817	ELECT 10U M 50V	C633	403 199 9718	25 YK 470 M TA K1012
C240	403 157 3611	GRM1885C1H101JZ01D PT115	C635	403 076 3617	DD05-989B471K500 P333
C241	403 314 5915	GRM21BR71C474KA01L PT297	C637	403 194 3800	ELECT 2200U M 25V
C242	403 314 5915	GRM21BR71C474KA01L PT297	C640	403 194 3800	ELECT 2200U M 25V
C245	403 157 3611	GRM1885C1H101JZ01D PT115	C641	403 165 6215	DEHR33D102KN3A P335
C247	403 323 8815	GRM21BF51C225ZA01K PT115	C642	404 085 6900	200YXF100MCA 100U M 200V
C251	403 323 8815	GRM21BF51C225ZA01K PT115	C643	403 054 1502	ELECT 470U M 35V
C252	403 215 2211	GRM188R71H103KA01D PT115	C645	403 248 1410	50 YK 1R0 M TA 0511
C256	403 233 0817	ELECT 10U M 50V	C647	403 157 6810	GRM188R71H681KD01D PT115
C257	403 164 0214	GRM188F51E104ZA01D PT115	C648	403 241 3817	10 YK 220 M TA 0511
C258	403 164 0214	GRM188F51E104ZA01D PT115	C655	403 248 1410	50 YK 1R0 M TA 0511
C259	403 164 0214	GRM188F51E104ZA01D PT115	C667	403 218 8151	25 YK 1000 M TA 1020
C261	403 164 0214	GRM188F51E104ZA01D PT115	C682	403 308 3409	ELECT 1000U M 6.3V
C262	403 164 0214	GRM188F51E104ZA01D PT115	C685	403 042 2425	ELECT 100U M 16V
C263	403 164 0214	GRM188F51E104ZA01D PT115	C686	403 199 9718	25 YK 470 M TA K1012
C264	403 164 0214	GRM188F51E104ZA01D PT115	C691	403 233 1111	ELECT 22U M 50V
C266	403 164 0214	GRM188F51E104ZA01D PT115	C801	403 269 5916	GRM219R71C224KC01D PT115
C267	403 164 0214	GRM188F51E104ZA01D PT115	C802	403 269 5916	GRM219R71C224KC01D PT115
C268	403 233 0817	ELECT 10U M 50V	C803	403 248 2813	50 YK 2R2 M TA 0511
C269	403 164 0214	GRM188F51E104ZA01D PT115	C804	403 269 5916	GRM219R71C224KC01D PT115
C271	403 258 3619	25 YK 33 M TA 0511	C806	403 164 0214	GRM188F51E104ZA01D PT115
C272	403 215 2211	GRM188R71H103KA01D PT115	C809	403 269 5916	GRM219R71C224KC01D PT115
C276	403 256 5011	CERAMIC 560P J 50V	C811	403 155 2319	GRM188R71H472KA01D PT115
C280	403 269 5916	GRM219R71C224KC01D PT115	C812	403 164 0214	GRM188F51E104ZA01D PT115
C281	403 042 2425	ELECT 100U M 16V	C841	403 040 9426	ELECT 330U M 10V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
DIODE			IC001-1	610 298 8475	HEAT SINK
D021	407 149 0817	DIODE 1SS355-TE-17	IC201	409 586 2010	IC TDA12020 N1
D1002	407 206 5618	ZENER D. UDZS-TE-1710B	IC501	409 507 0900	IC LA78040N
D1003	407 206 5618	ZENER D. UDZS-TE-1710B	IC501-1	610 309 3338	HEAT SINK-PCC C6BLL
D1004	407 206 5618	ZENER D. UDZS-TE-1710B	IC601	409 606 0207	IC TN6Q03-E--N
D1006	407 206 5618	ZENER D. UDZS-TE-1710B	IC601-1	610 313 8510	HEAT SINK C7WLW 30*47*15
D1007	407 206 5618	ZENER D. UDZS-TE-1710B	IC641	409 414 3001	IC PQ05RD11
D1008	407 206 5618	ZENER D. UDZS-TE-1710B	IC666	409 559 9203	IC BA33BCOT
D1009	407 206 5618	ZENER D. UDZS-TE-1710B	IC801	409 459 4506	IC 24LC16B/P
D101	407 149 0817	DIODE 1SS355-TE-17	COIL		
D1012	407 206 5618	ZENER D. UDZS-TE-1710B	L031	645 007 9566	LAL03TB120K P/COIL 52MM
D1013	407 206 5618	ZENER D. UDZS-TE-1710B	L032	645 007 9566	LAL03TB120K P/COIL 52MM
D1014	407 206 5618	ZENER D. UDZS-TE-1710B	L035	645 033 2722	BEAD CORE TAIYO YUDEN 52M
D1016	407 206 5618	ZENER D. UDZS-TE-1710B	L1001	652 000 1718	PIPE CORE
D1017	407 206 5618	ZENER D. UDZS-TE-1710B	L1002	652 000 1718	PIPE CORE
D1018	407 206 5618	ZENER D. UDZS-TE-1710B	L201	645 008 2887	P. COIL LAL02TB5R6K 52MM
D1019	407 206 5618	ZENER D. UDZS-TE-1710B	L202	645 008 2887	P. COIL LAL02TB5R6K 52MM
D102	407 100 0333	Z DIODE MTZJ36B 52MM	L203	401 027 2135	CARBON 56 JA 1/6W 52MM
D1101	407 149 0817	DIODE 1SS355-TE-17	L206	645 008 2887	P. COIL LAL02TB5R6K 52MM
D1102	407 149 0817	DIODE 1SS355-TE-17	L207	645 008 2887	P. COIL LAL02TB5R6K 52MM
D121	407 166 1118	DIODE 1SS356-TW11	L208	645 008 2887	P. COIL LAL02TB5R6K 52MM
D1901	407 063 8626	ZENER DIODE MTZJ-T72-5. 1A	L209	645 008 2887	P. COIL LAL02TB5R6K 52MM
D1911	407 116 6504	LD SLP-181B-51	L211	645 008 2887	P. COIL LAL02TB5R6K 52MM
D1911-1	610 269 4710	HOLDER LED A-G2CA	L212	645 008 2887	P. COIL LAL02TB5R6K 52MM
D231	407 206 5618	ZENER D. UDZS-TE-1710B	L213	645 008 2887	P. COIL LAL02TB5R6K 52MM
D232	407 206 5618	ZENER D. UDZS-TE-1710B	L214	645 008 2887	P. COIL LAL02TB5R6K 52MM
D261	407 099 5422	Z DIODE MTZJ6. 2B 52MM	L216	645 008 2887	P. COIL LAL02TB5R6K 52MM
D262	407 099 5422	Z DIODE MTZJ6. 2B 52MM	L217	645 008 2887	P. COIL LAL02TB5R6K 52MM
D263	407 099 5422	Z DIODE MTZJ6. 2B 52MM	L431	645 052 5940	C9HB-1R0K-R INDUCT 1.0UH
D264	407 149 0817	DIODE 1SS355-TE-17	L442	610 221 3348	COIL
D265	407 149 0817	DIODE 1SS355-TE-17	△ L601	645 038 7920	HF2422-253YOR8-T02 LINE F
D266	407 149 0817	DIODE 1SS355-TE-17	L606	610 078 5946	PIPE CORE
D281	407 012 4426	DIODE 1SS133-T-72	L607	652 000 1817	PIPE CORE BF203ORTM TAPED
D431	407 099 5224	ZENER DIODE MTZJ-T72-5. 1B	L608	652 000 1817	PIPE CORE BF203ORTM TAPED
D442	407 149 0817	DIODE 1SS355-TE-17	L632	401 011 9014	CARBON 1R JB 1/4W FLAMPRO
D445	407 149 0817	DIODE 1SS355-TE-17	L635	652 000 1718	PIPE CORE
D446	407 099 6122	Z. DIODE MTZJ-T72-10B	L639	401 011 9014	CARBON 1R JB 1/4W FLAMPRO
D463	407 012 4426	DIODE 1SS133-T-72	L643	401 011 9014	CARBON 1R JB 1/4W FLAMPRO
D481	407 007 7415	DIODE EU1 52MM	L801	645 008 2887	P. COIL LAL02TB5R6K 52MM
D482	407 012 4426	DIODE 1SS133-T-72	L802	645 008 2887	P. COIL LAL02TB5R6K 52MM
D501	407 005 8632	DIODE ERA15-02-V1	L803	645 008 2887	P. COIL LAL02TB5R6K 52MM
D502	407 149 0817	DIODE 1SS355-TE-17	L804	645 008 2887	P. COIL LAL02TB5R6K 52MM
D503	407 063 9128	Z. DIODE MTZJ-T72-6. 8B	TRANSISTOR		
D504	407 149 0817	DIODE 1SS355-TE-17	Q001	405 014 4519	TR BC847B, 235 10000/REEL
D506	407 005 8632	DIODE ERA15-02-V1	Q1001	405 134 5925	TR BC857B, 235 10000/REEL
D603	407 006 6310	DIODE ERC05-10B	Q1002	405 014 4519	TR BC847B, 235 10000/REEL
D604	407 006 6310	DIODE ERC05-10B	Q1003	405 134 5925	TR BC857B, 235 10000/REEL
D605	407 006 6310	DIODE ERC05-10B	Q1004	405 014 4519	TR BC847B, 235 10000/REEL
D606	407 006 6310	DIODE ERC05-10B	Q111	405 014 4519	TR BC847B, 235 10000/REEL
△ D610	407 231 7707	PHOTO COUPLE TLP421F	Q112	405 015 9721	TR 2SC2814-F4-TB
D611	407 006 0130	DIODE ERA91-02	Q113	405 015 9721	TR 2SC2814-F4-TB
D612	407 200 7806	DIODE RB441Q-40	Q201	405 014 4519	TR BC847B, 235 10000/REEL
D613	407 099 5224	ZENER DIODE MTZJ-T72-5. 1B	Q202	405 006 6514	TR 2SA984-E-AA
D614	407 091 6724	DIODE AP01C	Q203	405 014 4519	TR BC847B, 235 10000/REEL
D615	407 099 7624	ZENER DIODE MTZJ-T72-18B	Q204	405 006 6514	TR 2SA984-E-AA
D616	407 200 7806	DIODE RB441Q-40	Q208	405 134 5925	TR BC857B, 235 10000/REEL
D630	407 007 7613	DIODE EU2	Q281	405 014 4519	TR BC847B, 235 10000/REEL
△ D633	407 166 2303	DIODE ERC-91-02L	Q282	405 014 4519	TR BC847B, 235 10000/REEL
△ D635	407 129 6706	DIODE RU4YX LF-L1	Q293	405 014 4519	TR BC847B, 235 10000/REEL
D637	407 149 0817	DIODE 1SS355-TE-17	Q401	405 003 9013	TR 2SA1371-D AE TAPE
D639	407 007 7415	DIODE EU1 52MM	Q402	405 013 6316	TR 2SC2271-E-AE TAPED
D641	407 149 0817	DIODE 1SS355-TE-17	Q403	405 014 4519	TR BC847B, 235 10000/REEL
△ D642B	407 006 4217	DIODE ERB44-06	Q431	405 018 0616	TR 2SC3332-S
D645	407 099 5422	Z DIODE MTZJ6. 2B 52MM	Q432	405 157 1304	TR 2SD2634-YB
D648	407 007 7613	DIODE EU2	Q432-1	610 308 7658	HEAT SINK C2ST
D671	407 011 3014	DIODE S5277B	Q439	405 014 4519	TR BC847B, 235 10000/REEL
D676	407 099 5224	ZENER DIODE MTZJ-T72-5. 1B	Q641	405 014 4519	TR BC847B, 235 10000/REEL
D681	407 012 4426	DIODE 1SS133-T-72	Q642	405 089 3001	TR 2SC4487S-AN TAPING
D841	407 149 0817	DIODE 1SS355-TE-17	Q643	405 134 5925	TR BC857B, 235 10000/REEL
INTEGRATED CIRCUIT			Q645	405 014 4519	TR BC847B, 235 10000/REEL
IC001	409 569 1907	IC LA42052			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q651	405 009 7003	TR 2SB985- T	R111	401 105 3416	MT- GLAZE 27K JA 1/16W
Q671	405 014 4519	TR BC847B, 235 10000/REEL	R112	401 105 3416	MT- GLAZE 27K JA 1/16W
Q672	405 009 7003	TR 2SB985- T	R121	401 026 7438	CARBON 39K JA 1/6W 52MM
Q676	405 014 4519	TR BC847B, 235 10000/REEL	R122	401 027 5235	CARBON 680 JA 1/6W 52MM
Q682	405 014 4519	TR BC847B, 235 10000/REEL	R123	401 024 6730	CARBON 100 JA 1/6W 52MM
Q683	405 014 4519	TR BC847B, 235 10000/REEL	R125	401 105 7919	MT- GLAZE 0. 000 ZA 1/16W
Q691	405 014 4519	TR BC847B, 235 10000/REEL	R126	401 027 2135	CARBON 56 JA 1/6W 52MM
Q692	405 134 5925	TR BC857B, 235 10000/REEL	R127	401 105 6615	MT- GLAZE ERJ 3GEYJ682V
Q841	405 134 5925	TR BC857B, 235 10000/REEL	R128	401 105 2716	MT- GLAZE 220 JA 1/16W
Q861	405 014 4519	TR BC847B, 235 10000/REEL	R129	401 105 6011	MT- GLAZE 5. 6K JA 1/16W
Q866	405 134 5925	TR BC857B, 235 10000/REEL	R130	401 105 0613	MT- GLAZE 10K JA 1/16W
RESISTOR			R132	401 105 0613	MT- GLAZE 10K JA 1/16W
R001	401 105 0613	MT- GLAZE 10K JA 1/16W	R135	401 105 4512	MT- GLAZE 390 JA 1/16W
R002	401 105 0613	MT- GLAZE 10K JA 1/16W	R136	401 105 2815	MT- GLAZE 2. 2K JA 1/16W
R003	401 105 0514	MT- GLAZE 1K JA 1/16W	R137	401 105 5113	MT- GLAZE 47 JA 1/16W
R004	401 105 0514	MT- GLAZE 1K JA 1/16W	R138	401 105 2815	MT- GLAZE 2. 2K JA 1/16W
R011	401 105 0415	MT- GLAZE 100 JA 1/16W	R1901	401 105 7919	MT- GLAZE 0. 000 ZA 1/16W
R012	401 105 0613	MT- GLAZE 10K JA 1/16W	R1910	401 105 4512	MT- GLAZE 390 JA 1/16W
R013	401 105 0613	MT- GLAZE 10K JA 1/16W	R1913	401 105 7315	MT- GLAZE 820 JA 1/16W
R015	401 105 5410	MT- GLAZE 47K JA 1/16W	R1914	401 105 5212	MT- GLAZE 470 JA 1/16W
R016	401 105 0613	MT- GLAZE 10K JA 1/16W	R1915	401 105 3218	MT- GLAZE 270 JA 1/16W
R017	401 024 7440	CARBON 10K JA 1/6W 52MM	R1916	401 105 7919	MT- GLAZE 0. 000 ZA 1/16W
R031	401 007 7641	CARBON 150 JA 1/2W	R201	401 027 0339	CARBON 47K JA 1/6W 52MM
R032	401 007 7641	CARBON 150 JA 1/2W	R203	401 027 0339	CARBON 47K JA 1/6W 52MM
R1001	401 105 1412	MT- GLAZE 150 JA 1/16W	R209	401 105 1115	MT- GLAZE 12K JA 1/16W
R1002	401 105 1412	MT- GLAZE 150 JA 1/16W	R211	401 024 6730	CARBON 100 JA 1/6W 52MM
R1003	401 027 6638	CARBON 75 JA 1/6W 52MM	R212	401 024 6730	CARBON 100 JA 1/6W 52MM
R1004	401 105 0514	MT- GLAZE 1K JA 1/16W	R213	401 024 6730	CARBON 100 JA 1/6W 52MM
R1006	401 105 0514	MT- GLAZE 1K JA 1/16W	R216	401 105 6615	MT- GLAZE ERJ 3GEYJ682V
R1007	401 016 1548	CARBON 22 JA 1/4W 52MM	R217	401 105 1115	MT- GLAZE 12K JA 1/16W
R1009	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	R218	401 105 6615	MT- GLAZE ERJ 3GEYJ682V
R101	401 105 4710	MT- GLAZE 39K JA 1/16W	R219	401 105 1115	MT- GLAZE 12K JA 1/16W
R1011	401 037 5618	MT- GLAZE 10K JA 1/10W	R221	401 105 0415	MT- GLAZE 100 JA 1/16W
R1012	401 105 4116	MT- GLAZE 3. 3K JA 1/16W	R222	401 105 0415	MT- GLAZE 100 JA 1/16W
R1013	401 038 0612	MT- GLAZE 220 JA 1/10W	R223	401 105 4512	MT- GLAZE 390 JA 1/16W
R1014	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	R224	401 024 6730	CARBON 100 JA 1/6W 52MM
R1017	401 038 0612	MT- GLAZE 220 JA 1/10W	R226	401 105 0415	MT- GLAZE 100 JA 1/16W
R102	401 105 1115	MT- GLAZE 12K JA 1/16W	R231	401 105 6615	MT- GLAZE ERJ 3GEYJ682V
R1021	401 105 1412	MT- GLAZE 150 JA 1/16W	R232	401 105 6615	MT- GLAZE ERJ 3GEYJ682V
R1022	401 105 1412	MT- GLAZE 150 JA 1/16W	R233	401 105 1115	MT- GLAZE 12K JA 1/16W
R1023	401 027 6638	CARBON 75 JA 1/6W 52MM	R234	401 105 1115	MT- GLAZE 12K JA 1/16W
R1024	401 105 0514	MT- GLAZE 1K JA 1/16W	R241	401 105 7919	MT- GLAZ 0. 000 ZA 1/16W
R1026	401 105 0514	MT- GLAZE 1K JA 1/16W	R242	401 105 7919	MT- GLAZE 0. 000 ZA 1/16W
R1027	401 016 1548	CARBON 22 JA 1/4W 52MM	R243	401 105 1610	MT- GLAZE 15K JA 1/16W
R1028	401 025 7835	CARBON 2K2JA 1/6W 52MM	R244	401 105 1610	MT- GLAZE 15K JA 1/16W
R1029	401 025 7835	CARBON 2K2JA 1/6W 52MM	R246	401 024 6730	CARBON 100 JA 1/6W 52MM
R103	401 105 0415	MT- GLAZE 100 JA 1/16W	R247	401 024 6730	CARBON 100 JA 1/6W 52MM
R1031	401 037 5618	MT- GLAZE 10K JA 1/10W	R248	401 024 6730	CARBON 100 JA 1/6W 52MM
R1032	401 105 4116	MT- GLAZE 3. 3K JA 1/16W	R249	401 024 6730	CARBON 100 JA 1/6W 52MM
R1033	401 025 7439	CARBON 220 JA 1/6W 52MM	R251	401 024 6730	CARBON 100 JA 1/6W 52MM
R1034	401 025 7439	CARBON 220 JA 1/6W 52MM	R252	401 024 6730	CARBON 100 JA 1/6W 52MM
R1036	401 113 4412	MT- GLAZE 75 JA 1/16W	R253	401 024 9731	CARBON 12K JA 1/6W 52MM
R1037	401 113 4412	MT- GLAZE 75 JA 1/16W	R254	401 105 0514	MT- GLAZE 1K JA 1/16W
R1038	401 113 4412	MT- GLAZE 75 JA 1/16W	R256	401 105 0415	MT- GLAZE 100 JA 1/16W
R1039	401 113 4412	MT- GLAZE 75 JA 1/16W	R261	401 105 0514	MT- GLAZE 1K JA 1/16W
R104	401 105 0415	MT- GLAZE 100 JA 1/16W	R262	401 105 0415	MT- GLAZE 100 JA 1/16W
R1041	401 024 6730	CARBON 100 JA 1/6W 52MM	R263	401 105 0415	MT- GLAZE 100 JA 1/16W
R1042	401 024 6730	CARBON 100 JA 1/6W 52MM	R264	401 105 0415	MT- GLAZE 100 JA 1/16W
R1043	401 024 6730	CARBON 100 JA 1/6W 52MM	R266	401 105 2013	MT- GLAZE 1. 8K JA 1/16W
R1044	401 024 6730	CARBON 100 JA 1/6W 52MM	R267	401 026 4932	CARBON 330K JA 1/6W 52MM
R1046	401 113 4412	MT- GLAZE 75 JA 1/16W	R268	401 105 3010	MT- GLAZE 220K JA 1/16W
R1047	401 113 4412	MT- GLAZE 75 JA 1/16W	R269	401 105 3416	MT- GLAZE 27K JA 1/16W
R1048	401 113 4412	MT- GLAZE 75 JA 1/16W	R271	401 105 5410	MT- GLAZE 47K JA 1/16W
R1049	401 113 4412	MT- GLAZE 75 JA 1/16W	R272	401 105 4314	MT- GLAZE 330K JA 1/16W
R1051	401 024 6730	CARBON 100 JA 1/6W 52MM	R282	401 105 0514	MT- GLAZE 1K JA 1/16W
R1052	401 024 6730	CARBON 100 JA 1/6W 52MM	R283	401 105 0514	MT- GLAZE 1K JA 1/16W
R1053	401 024 6730	CARBON 100 JA 1/6W 52MM	R284	401 105 5311	MT- GLAZE 4. 7K JA 1/16W
R1054	401 024 6730	CARBON 100 JA 1/6W 52MM	R285	401 026 9937	CARBON 4K7 JA 1/6W 52MM
△ R106	401 060 9307	OXIDE- MT 27K JA 1W	R293	401 105 0712	MT- GLAZE 100K JA 1/16W
R108	401 105 7919	MT- GLAZE 0. 000 ZA 1/16W	R401	401 027 5532	CARBON 6K8 JA 1/6W 52MM
			R402	401 027 0537	CARBON 470K JA 1/6W 52MM

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R403	401 105 4314	MT- GLAZE 330K JA 1/16W	R675	401 013 5351	CARBON 1K2 JA 1/4W 52MM
R404	401 105 0613	MT- GLAZE 10K JA 1/16W	R676	401 105 0613	MT- GLAZE 10K JA 1/16W
R405	401 027 2630	CARBON 5K6 JA 1/6W 52MM	R681	401 105 6011	MT- GLAZE 5.6K JA 1/16W
R406	401 105 0613	MT- GLAZE 10K JA 1/16W	R683	401 105 0613	MT- GLAZE 10K JA 1/16W
R433	401 007 1134	CARBON 1K JA 1/2W	R684	401 105 0514	MT- GLAZE 1K JA 1/16W
R434	401 105 0514	MT- GLAZE 1K JA 1/16W	R685	401 105 6011	MT- GLAZE 5.6K JA 1/16W
△ R435	402 067 8904	WIRE WOUND 3.9 KA 5W	△ R691	401 065 1801	OXIDE- MT 12 JA 2W
R436	401 012 7059	CARBON 10K JA 1/4W 52MM	△ R692	401 065 1801	OXIDE- MT 12 JA 2W
R437	401 105 0514	MT- GLAZE 1K JA 1/16W	R693	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R438	401 018 2850	CARBON 330 JA 1/4W 52MM	R694	401 105 0613	MT- GLAZE 10K JA 1/16W
R439	401 105 5212	MT- GLAZE 470 JA 1/16W	R695	401 105 2013	MT- GLAZE 1.8K JA 1/16W
R447	401 105 5311	MT- GLAZE 4.7K JA 1/16W	R696	401 105 0613	MT- GLAZE 10K JA 1/16W
R448	401 018 2850	CARBON 330 JA 1/4W 52MM	R697	401 027 8335	CARBON 820 JA 1/6W 52MM
△ R449	401 058 2501	OXIDE- MT 100 JA 1W	R801	401 105 4116	MT- GLAZE 3.3K JA 1/16W
R450	401 027 5532	CARBON 6K8 JA 1/6W 52MM	R802	401 105 4116	MT- GLAZE 3.3K JA 1/16W
△ R451	401 066 3002	OXIDE- MT 2.2 JA 2W	R803	401 105 0415	MT- GLAZE 100 JA 1/16W
R453	401 024 7034	CARBON 1K JA 1/6W 52MM	R807	401 024 6433	CARBON 10 JA 1/6W
R454	401 021 4155	CARBON 56K JA 1/4W 52MM	R808	401 105 4116	MT- GLAZE 3.3K JA 1/16W
R455	401 015 3850	CARBON 18K JA 1/4W 52MM	R809	401 024 6433	CARBON 10 JA 1/6W
R462	401 105 7919	MT- GLAZE 0.000 ZA 1/16W	R810	401 024 6730	CARBON 100 JA 1/6W 52MM
R480	401 015 6613	CARBON 2.2 JB 1/4W FLAME	R811	401 105 4116	MT- GLAZE 3.3K JA 1/16W
R481	401 020 3941	CARBON 470K JA 1/4W 52MM	R812	401 024 6730	CARBON 100 JA 1/6W 52MM
R482	401 027 8632	CARBON 8K2 JA 1/6W 52MM	R813	401 024 6730	CARBON 100 JA 1/6W 52MM
△ R501	402 064 4404	FUSIBLE RES 10 J- 1W	R814	401 024 6730	CARBON 100 JA 1/6W 52MM
△ R502	402 022 2008	FUSIBLE RES 1 J- 1/2W	R817	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
△ R510	401 064 4506	OXIDE- MT 1.2 JA 2W	R818	401 024 9335	CARBON 1K2 JA 1/6W 52MM
R511	401 006 9329	CARBON 10 JA 1/2W	R821	401 024 6730	CARBON 100 JA 1/6W 52MM
△ R512A	401 009 9346	CARBON 390 JA 1/2W	R826	401 105 4710	MT- GLAZE 39K JA 1/16W
△ R515	402 035 9001	FUSIBLE RES 12 J- 1W	R829	401 024 7034	CARBON 1K JA 1/6W 52MM
R516	401 027 5532	CARBON 6K8 JA 1/6W 52MM	R832	401 105 0415	MT- GLAZE 100 JA 1/16W
R517	401 105 1610	MT- GLAZE 15K JA 1/16W	R840	401 105 6011	MT- GLAZE 5.6K JA 1/16W
R521	401 105 7919	MT- GLAZE 0.000 ZA 1/16W	R841	401 105 0613	MT- GLAZE 10K JA 1/16W
R522	401 083 8321	MT- FILM 1.2K FA 1/6W 52MM	R861	401 105 5410	MT- GLAZE 47K JA 1/16W
R523	401 025 1635	CARBON 1K5 JA 1/6W 52MM	R862	401 105 2815	MT- GLAZE 2.2K JA 1/16W
R532	401 025 1635	CARBON 1K5 JA 1/6W 52MM	R866	401 105 0613	MT- GLAZE 10K JA 1/16W
R533	401 024 7034	CARBON 1K JA 1/6W 52MM	R867	401 105 0415	MT- GLAZE 100 JA 1/16W
R534	401 083 8321	MT- FILM 1.2K FA 1/6W 52MM			
R601	401 008 8627	CARBON 220K JA 1/2W			
△ R602A	402 067 7709	WIRE WOUND 3.9 KA 7W	TRANSFORMER		
R606	401 008 8627	CARBON 220K JA 1/2W	T431	652 001 1144	TRANS DRIVE
R607	401 008 8627	CARBON 220K JA 1/2W	△ T451	645 043 9063	TRANS, FLYBACK 21"
R608	401 017 0857	CARBON 270 JA 1/4W 52MM	△ T611	645 067 2903	TRANS, POWER PULSE 21" MDLS
R610	401 016 2654	CARBON 220 JA 1/4W 52MM			
R611	401 019 9650	CARBON 47 JA 1/4W 52MM	MISCELLANEOUS		
R612	401 021 3059	CARBON 5.6K JA 1/4W 52MM	△ A101	645 052 6947	TUNER, U/V
R613	401 007 2319	CARBON 100K JA 1/2W	A1901	645 028 1044	REMO REC SPS-443-1-E
△ R614	401 068 5509	OXIDE- MT 47 K JA 2W	△ F601	423 024 8409	FUSE 250V 4.0A GLASS S/B
△ R631	402 088 1106	RESISTER 5.6M JA 1/2W	F601-1	645 040 3576	HOLDER, FUSE EYF-52BC PANA
△ R632	402 088 1106	RESISTER 5.6M JA 1/2W	F601-2	645 040 3576	HOLDER, FUSE EYF-52BC PANA
△ R636	401 024 7440	CARBON 10K JA 1/6W 52MM	JS122	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R641	401 105 7414	MT- GLAZE 8.2K JA 1/16W	JS201	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R642	401 043 2014	MT- FILM150K FA 1/4W 52MM	JS241	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R646	401 014 5251	CARBON 15K JA 1/4W 52MM	JS242	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R647	401 019 1951	CARBON 3K9 JA 1/4W 52MM	JS248	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R649	401 105 0613	MT- GLAZE 10K JA 1/16W	JS249	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R650	401 105 0712	MT- GLAZE 100K JA 1/16W	J116	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R651	401 105 0613	MT- GLAZE 10K JA 1/16W	J137	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R652	401 105 2013	MT- GLAZE 1.8K JA 1/16W	J154	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R653	401 105 2914	MT- GLAZE 22K JA 1/16W	J155	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R654	401 105 6615	MT- GLAZE ERJ 3GEYJ682V	J164	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R655	401 016 3859	CARBON 2.2K JA 1/4W 52MM	J165	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R656	401 105 0712	MT- GLAZE 100K JA 1/16W	J166	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R658	401 024 7440	CARBON 10K JA 1/6W 52MM	J182	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R659	401 105 6011	MT- GLAZE 5.6K JA 1/16W	J183	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R660	401 105 4611	MT- GLAZE 3.9K JA 1/16W	J187	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R665	401 105 0613	MT- GLAZE 10K JA 1/16W	J210	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
△ R667	401 060 0403	OXIDE- MT 2.7 JA 1W	J214	645 008 2887	P. COIL LAL02TB5R6K 52MM
R668	401 105 7414	MT- GLAZE 8.2K JA 1/16W	J216	645 008 2887	P. COIL LAL02TB5R6K 52MM
R670	401 014 2943	CARBON 150 JA 1/4W 52MM	J225	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R671	401 105 0613	MT- GLAZE 10K JA 1/16W	J240	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R672	401 025 4230	CARBON 1K8 JA 1/6W 52MM	J259	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
R673	401 105 0613	MT- GLAZE 10K JA 1/16W	J307	401 105 7919	MT- GLAZE 0.000 ZA 1/16W
			J404	401 105 7919	MT- GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description
△ J408	645 017 6944	491-01. 5T52 IC PROTECT.
J511	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J512	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J513	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J616	610 078 5946	PIPE CORE
J622	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
KCPA	645 006 0946	PLUG, 7P
KE-1	645 008 4058	TERMI NAL PLUG
KE-2	645 008 4058	TERMI NAL PLUG
KEM2	645 008 4058	TERMI NAL PLUG
KFF-1	645 008 4058	TERMI NAL PLUG
KFF-2	645 008 4058	TERMI NAL PLUG
KL	645 004 2881	PLUG, 2P
KP	645 008 7288	HOUSING PLUG 5P
KQ	645 008 7264	HOUSING PLUG 3P
KR-1	645 008 4058	TERMI NAL PLUG
KR-2	645 008 4058	TERMI NAL PLUG
K031	645 027 8761	PHONE JACK HTJ-035-10ABT
K1001	645 005 5867	21-PIN SOCKET
K1002	645 005 5867	21-PIN SOCKET
K4A	645 010 9683	PLUG, 2P B2B-VT JST
K4B	645 008 7264	HOUSING PLUG 3P
△ PS601	408 049 9006	B59608-J80-A110 2TPOSITOR
SW1901	610 011 4432	SWIT CH, PUSH
SW1902	610 011 4432	SWIT CH, PUSH
SW1903	610 011 4432	SWIT CH, PUSH
SW1904	610 011 4432	SWIT CH, PUSH
△ SW601	645 061 3111	SWIT CH, PUSH POWER 1P-2T
TP-A	645 008 4058	TERMI NAL PLUG
TP-B	645 008 4058	TERMI NAL PLUG
VA601	407 130 2902	VARI STOR
VR641	645 003 5579	VR, RH063MCJ3R 2K2 ALPS
X121	421 010 9300	SAW F TSF5425U
X122	421 010 9201	SAW F TSB6356U
X201	645 058 9898	XTAL 24.576MHZ TAPED KSS
Z101	610 282 9693	SHD.CASE EB6 6 CUTT+5HOLE
Z102	610 282 9709	SHIELD CASE C2HC-B

1AA0B10H069DB ASSY,PWB,SOCKET C6KZV

CAPACITOR

C710	403 281 9302	ELECT	10U M	250V
C741	403 247 2101	CERAMIC	2200P K	2K
C745	403 159 7409	MT-POLYEST	0.1U K	250V

DIODE

D702	407 006 3913	DIODE	ERB43-04-V1	52MM
D712	407 006 3913	DIODE	ERB43-04-V1	52MM
D722	407 006 3913	DIODE	ERB43-04-V1	52MM

INTEGRATED CIRCUIT

IC701	409 592 0304	IC	TDA6107JFN/3N
IC701-1	610 313 0590	HEAT SINK	RGB C6ARL

RESISTOR

R701	401 105 1412	MT-GLAZE	150 JA	1/16W
R704	401 024 6730	CARBON	100 JA	1/6W 52MM
R705	401 007 1134	CARBON	1K JA	1/2W
R711	401 105 1412	MT-GLAZE	150 JA	1/16W
R714	401 024 6730	CARBON	100 JA	1/6W 52MM
R715	401 007 1134	CARBON	1K JA	1/2W
R721	401 105 1412	MT-GLAZE	150 JA	1/16W
R724	401 024 6730	CARBON	100 JA	1/6W 52MM
R725	401 007 1134	CARBON	1K JA	1/2W
R731	401 105 0514	MT-GLAZE	1K JA	1/16W
R732	401 105 8213	MT-GLAZE	ERJ 3GEYJ683V	

MISCELLANEOUS

JS701	401 105 7919	MT-GLAZE	0.000 ZA	1/16W
K7P	645 008 7288	HOUSING PLUG	5P	
K7Q	645 008 7264	HOUSING PLUG	3P	

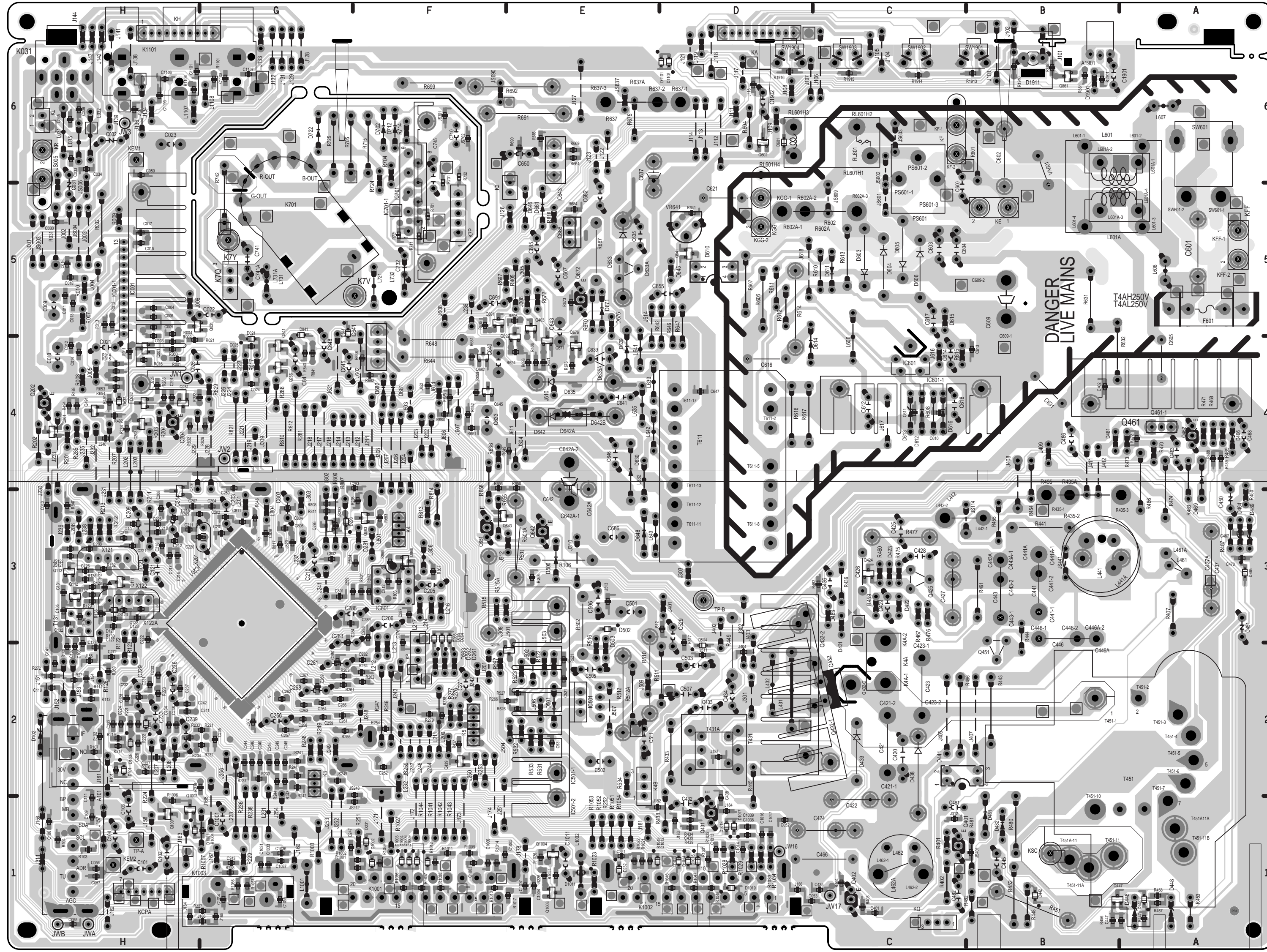
Ref. No.	Part No.	Description
K7V	645 008 4058	TERMI NAL PLUG
K7Y	645 008 4058	TERMI NAL PLUG
△ K701	645 026 2005	HPS1521-015103 CRT. SKT

All information in this manual is correct at the start of production. Sanyo reserves the right to modify components and procedures in order to comply with their continuous improvement policy.

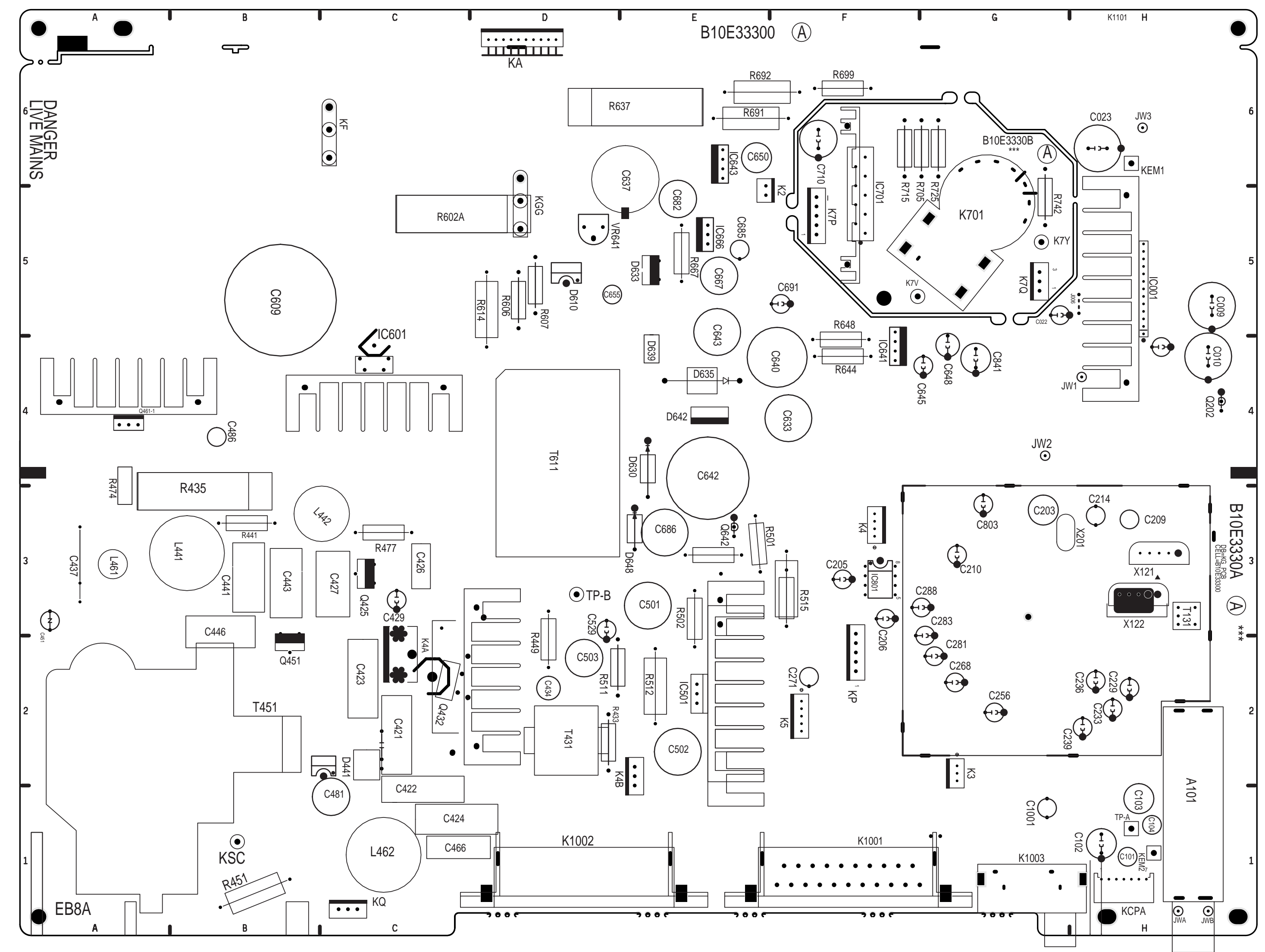
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COMPONENT LOCATIONS



BLOCK DIAGRAM

