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# COLOR TV SERVICE MANUAL

CHASSIS : MC-006A

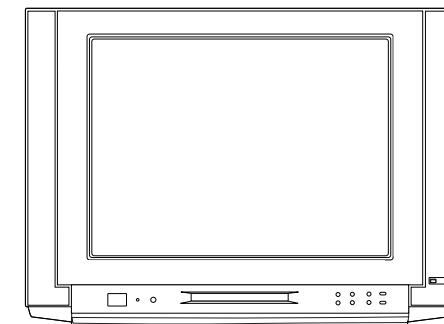
**MODEL:CE-29Q90ID**



**LG Electronics Inc.**

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## CAUTION

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

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# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Replacement Parts List.  
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.  
Do not modify the original design without permission of manufacturer.

### General Guidance

An **Isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by its Neck.

### X-RAY Radiation

#### Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.  
For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 ; 1.5KV: 14-19 inch, 26 ; 15KV: 19-21 inch,  
29.0 ; 1.5KV: 25-29 inch, 30.0 ; 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

### Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

#### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

#### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

#### Do not use a line Isolation Transformer during this check.

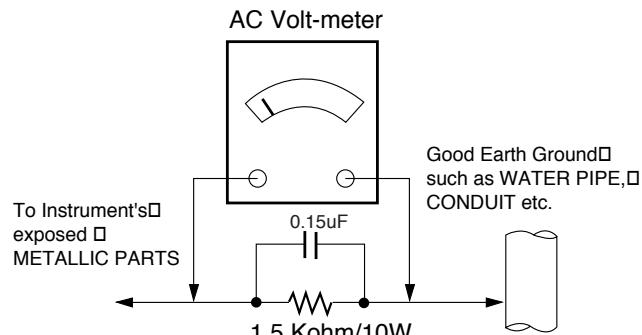
Connect 15K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

#### Leakage Current Hot Check circuit



# SPECIFICATIONS

**Note :** Specification and others are subject to change without notice for improvement.

**i Video input system:**

PAL-B/G, D/K, I/I  
SECAM-B/G, D/K/L/L'  
NTSC M  
NTSC 4.43(AV)

SOUND IF : 33.4MHz (B/G)  
32.9MHz (I/I)  
32.4MHz (D/K,L)  
34.4MHz (M)  
40.4MHz (L')

**i Intermediate Frequency (Unit : MHz)**

VISION IF : 38.9MHz,33.9MHz(SECAM-L')  
COLOR IF : 34.47MHz(4.43)  
35.32MHz(3.58) : NTSC-M  
( VIF-4.25000MHz ) : SECAM  
VIF-4.40625MHz

**i Power requirement :** 110~240V, 50/60Hz

**i Power consumption :** 165W

**i CPT :** Flat CPT

**i Tuning range**

Band	For TV				For CATV
	B/G	D/K	I/I	NTSC	
VHF-Low	Ch2-4	Ch1-5			S1-S3', S1 Ch2-13 S2-S10, S11-S20
VHF-High	Ch5-12	Ch6-12	Ch4-13		
Hyper					S21-S41
UHF	Ch21-69			Ch14-69	

**i Tuning system :**

FVS  
100 Programme memory

**i Feature :** Auto programme/Manual programme

SVM (Scanning Velocity Modulation)

Digital Eye

Digital Comb Filter

Auto Sleep

Dynamic Focus

Programme Editing

PSM (Picture Status Memory)

SSM (Sound Status Memory)

CTI

Teletext (128 page)

Turbo Search, Picture & Sound

ACMS

ARC (Zoom 1/ZOOM 2, 16:9, 4:3)

2 TUNER PIP(Double Window PIP)

MUP mode(Program Scan)

VGA input

**i Antenna input impedance :** VHF/UHF 75 ohm, unbalanced

**i OSD (On Screen Display) :** EZ MENU Type

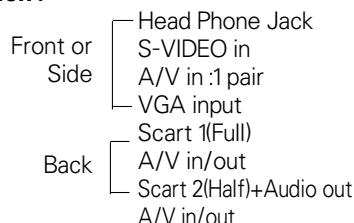
**i Voice coil impedance :** 8 ohm

**i Sound output :** R,L Out : 7W+7W

Center : 5W

Woofer : 20W

**i External connection :**



**i Child Lock :**

In the Lock On state the TV can only be operated by the Remote Controller.

If any button on the front panel is pressed, "Child Lock" is displayed on the screen but the button's function is not performed.

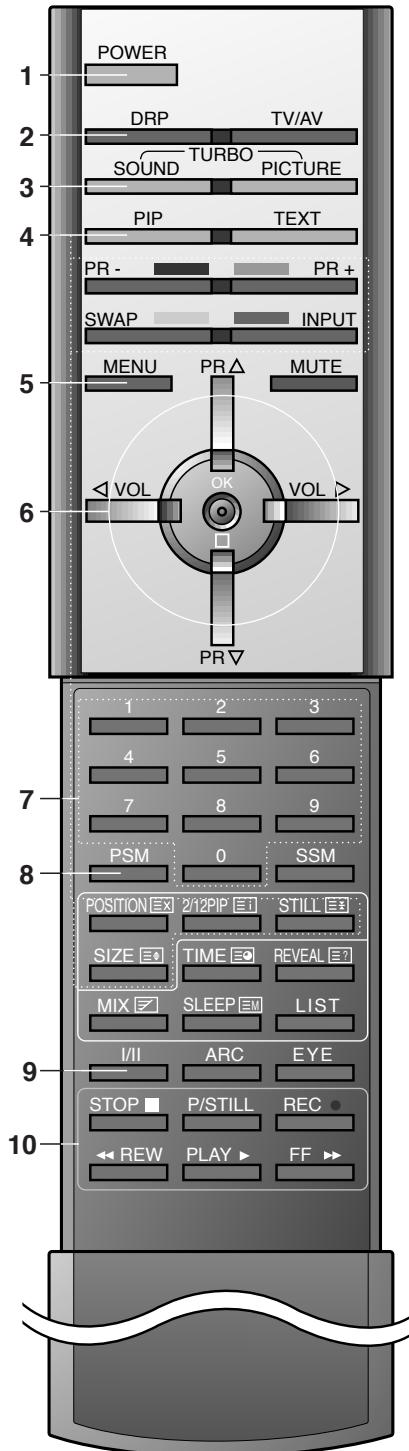
To cancel of this mode, select lock off with menu button on remote controller only.

**i External In/Output**

Audio-In:0.5Vrms ; 3db , over 10Kohm  
Audio-Out:0.5Vrms ; 3db , below 1Kohm  
Video-In/Out:1Vp-p ; 3db , 75ohm  
R,G,B In:0.7Vp-p ; 3db

# DESCRIPTION OF CONTROLS

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.



## Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.

- 1. POWER**  
switches the set on from standby or off to standby.
- 2. DRP (Digital Reality Picture)**  
switches DRP 1250 or 100.
- 3. TURBO SOUND BUTTON**  
selects Turbo sound.
- 4. PIP BUTTONS**
  - PIP**  
switches the sub picture on or off.
  - PR +/-**  
selects a programme for the sub picture.
  - SWAP**  
alternates between main and sub picture.
  - INPUT**  
selects the input mode for the sub picture.
  - SIZE**  
adjusts the sub picture size.
  - STILL**  
freezes motion of the sub picture.
  - POSITION**  
relocates the sub picture in clockwise direction.
  - 2/12 PIP**  
switches on or off the programme scan mode through 12 sub pictures .
- 5. MENU**  
selects a menu.
- 6. ▲ / ▼ (Programme Up/Down)**  
selects a programme or a menu item.  
**POSITION**  
switches the set on from standby.
- ◀ / ▶ (Volume Up/Down)**  
adjusts the volume.
- OK**  
adjusts menu settings.  
accepts your selection or displays the current mode.
- 7. NUMBER BUTTONS**  
switches the set on from standby or directly select a number.
- 8. PSM (Picture Status Memory)**  
recalls your preferred picture setting.
- 9. I/II**  
selects the language during dual language broadcast.  
selects the sound output (option).
- 10. VCR BUTTONS**  
control a LG video cassette recorder.

## 11. TV/AV

selects TV or AV mode.  
clears the menu / text from the screen.  
switches the set on from standby.

## 12. TURBO PICTURE BUTTON

selects Turbo picture.

## 13. TELETEXT BUTTONS

These buttons are used for teletext.  
For further details, see the 'Teletext' section.

## 14. SWAP

returns to the previously viewed programme.

## 15. MUTE

switches the sound on or off.

## 16. SSM (Sound Status Memory)

recalls your preferred sound setting.

## 17. LIST

displays the programme table.

## 18. SLEEP

sets the sleep timer.

## 19. EYE

switches the eye function on or off.

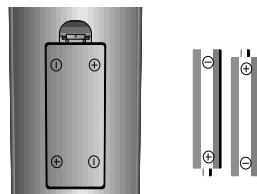
## 20. ARC (Aspect Ratio Control)

changes the picture format.

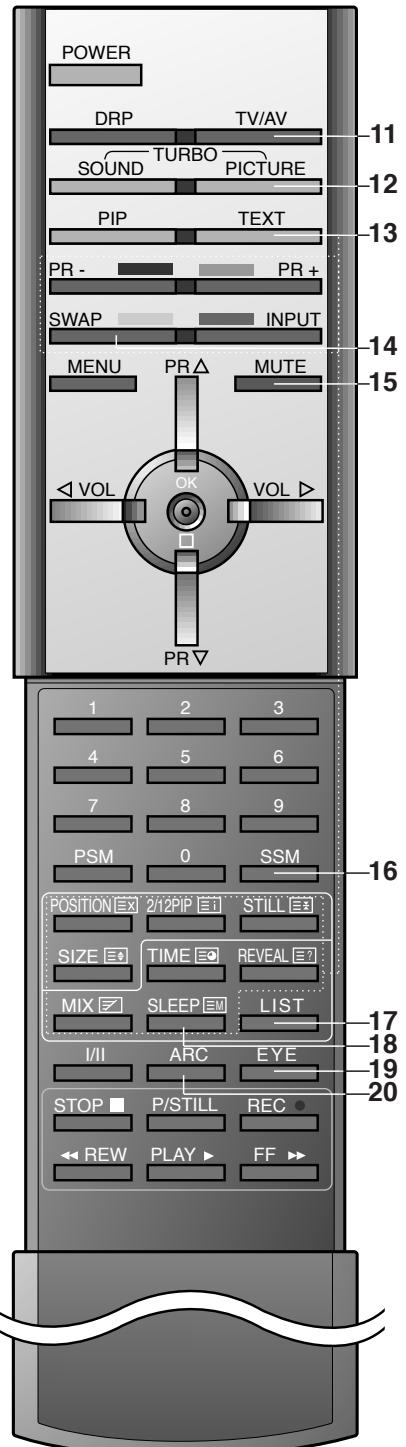
**Note :** In teletext mode, the PR +/-, SWAP and INPUT buttons are used for teletext function.

## Battery installation

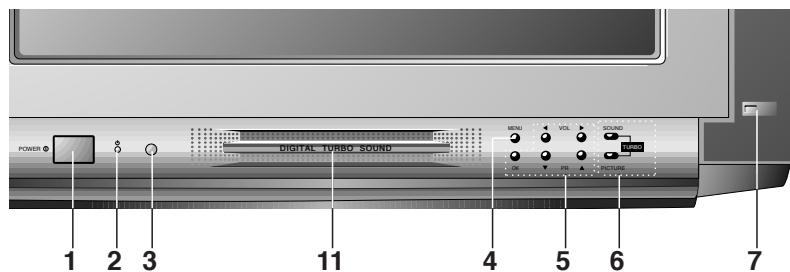
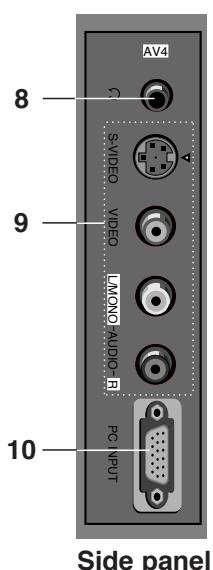
The remote control handset is powered by two AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (+) and (-) marked inside the compartment.



**Note :** To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.



## Front panel



- 1. MAIN POWER (POWER ①)**  
switches the set on or off.
- 2. POWER/STANDBY INDICATOR**  
illuminates brightly when the set is in standby mode.  
dims when the set is switched on.
- 3. REMOTE CONTROL SENSOR**
- 4. MENU**  
selects a menu.
- 5. OK**  
accepts your selection or displays the current mode.  
**◀ / ▶ (Volume Up/Down)**  
adjusts the volume.  
adjusts menu settings.  
**▲ / ▼ (Programme Up/Down)**  
selects a programme or a menu item.  
switches the set on from standby.
- 6. TURBO SOUND / PICTURE**  
switches Turbo sound or Turbo picture function on or off.
- 7. EYE (option)**  
adjusts picture according to the surrounding conditions.
- 8. HEADPHONE SOCKET**  
Connect the headphone plug to this socket.
- 9. AUDIO/VIDEO IN SOCKETS (AV4)**  
Connect the audio/video out sockets of external equipment to these sockets.  
**S-VIDEO/AUDIO IN SOCKETS (S-AV)**  
Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.  
Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV4**.
- 10. PC INPUT SOCKET**  
Connect the monitor output socket of the PERSONAL COMPUTER to this socket.  
**Note :** Set the resolution of PC to VGA 640x480 video mode to use this set as PC monitor.
- 11. CENTRE SPEAKER**  
Shows up when the Turbo sound is on  
**Note :** To prevent fingers from getting jammed in, do not put them on this speaker.

# DISASSEMBLY INSTRUCTIONS

## Important note

This set is disconnected from the power supply through the converter transformer. An isolating transformer is necessary for service operations on the primary side of the converter transformer.

## Back Cabinet Removal

Remove the screws residing on the back cabinet and carefully separate the back cabinet from the front cabinet. (Fig. 2-1).

## CPT Removal

1. Pull out the CPT board from the CPT neck.
2. Place the front cabinet on soft material not to mar the front surface or damage control knobs.
3. Remove 4 screws securing the picture tube mounting brackets to the front cabinet.
4. Carefully separate CPT from the front cabinet.

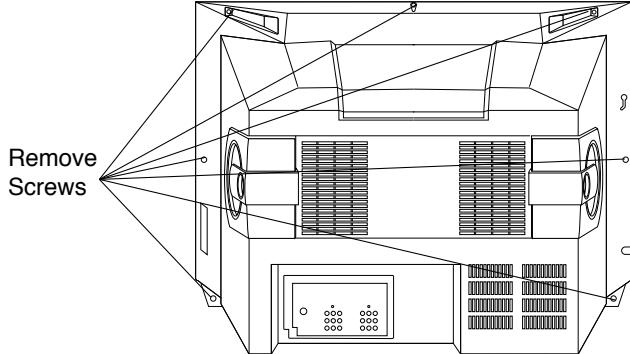


Fig. 2-1

## Chassis Assy Removal

Grasp both side of Frame and pull it backward smoothly.

## Speaker Assy Removal

1. Remove P1651 and P1652 connector from Main2 (Power/Def./Sound-Amp) Board.
2. Remove respective 6 screws for speaker on the front cabinet. (Fig. 2-2).

## PICTURE TUBE HANDLING CAUTION

Due to high vacuum and large surface area of picture tube, great care must be exercised when handling picture tube. Always lift picture tube by grasping it firmly around faceplate.

NEVER LIFT TUBE BY ITS NECK! The picture tube must not be scratched or subjected to excessive pressure as fracture of glass may result in an implosion of considerable violence which can cause personal injury or property damage.

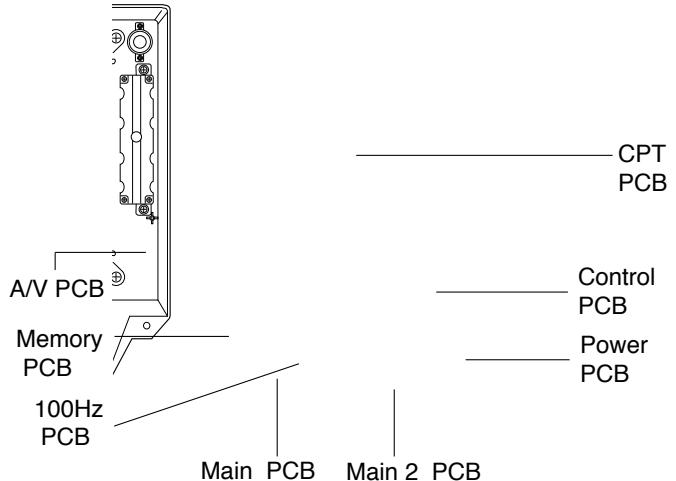


Fig. 2-2

# ADJUSTMENT INSTRUCTIONS

## i Safety Precautions

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances.
5. Unless otherwise noted, set the line voltage to 230Vac ; 10%, 50Hz.
5. The adjustment of TV should be performed after warming up for 15 minutes.

## i Test Equipment required

1. RF signal generator (with pattern generator)
2. DC Power Supply
3. Multimeter (volt meter)
4. Oscilloscope
5. Color analyzer

## i Focus Adjustment

**Test Point : Observing Display**

**Adjust : Focus control of FBT**

- 1) Tune the TV set to receive a digital pattern.
- 2) Adjust the upper Focus volume of FBT for the best focus of vertical line B.
- 3) Adjust the lower Focus volume of FBT for the best focus of area A.
- 4) Repeat above step 2) and 3) for the best overall focus.

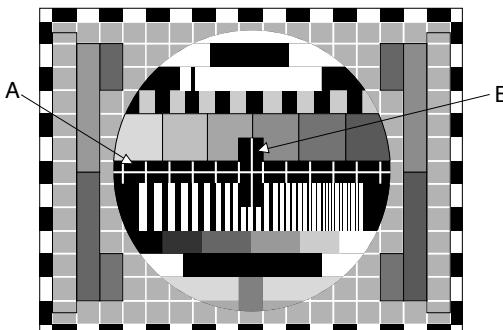


Fig. 1

## i Screen Voltage Adjustment

- 1) Turn the TV set on.
- 2) This adjustment should be performed after warming up for more than 15 minutes.
- 3) Enter the SVC mode by pressing the SVC button on remote controller and make a horizontal line by pressing the H-LINE button.
- 4) Finish adjusting at the point when the horizontal line appears again after adjusting screen volume until the horizontal line disappear.

## i White Balance Adjustment

**NOTE :** This adjustment should be performed after screen voltage adjustment.

- 1) Tune the TV set to receive an 100% white pattern.
- 2) Press Channel UP/DOWN button for desirous function Adjustment.
- 3) Press Volume UP/DOWN button to adjust the data.
- 4) Adjust until "CONTRAST" and "BRIGHT" become 3.5 Ft\_L
- 5) Enter the SVC mode by pressing the SVC button.
- 6) Adjust the Y value of High Light with G-DRIVE and adjust the X value with B-DRIVE until they have the color coordinate of High Light as below.
- 7) Adjust until "CONTRAST" and "BRIGHT" become 4.5 Ft\_L
- 8) Enter the adjustment mode by pressing the SVC button.
- 9) Adjust the Y value of Low Light with G-CUTOFF and adjust the X value with B-CUTOFF until they have the color coordinate of Low Light as below.
- 10) Repeat adjusting until the color coordinate of High and Low Light is satisfied.
- 11) Check the adjusted color coordinate with a white balance meter.

Color Tem.	X	Y	Memo
13000K	266 ; 8	273 ; 8	NON EU
9000K	288 ; 8	295 ; 8	EU

Menu	LG 29" FLAT	LG 29" S/F	LG 32" FLAT
RD	20		
GD	1E		
BD	20		
RC	1F		
GC	1F		
BC	1F		

## i Deflection Data Adjustment

- 1) Deflection Data Adjustment should be performed with the remote controller for handset.
- 2) Enter the SVC mode by pressing the SVC button.
- 3) Enter the Deflection Adjustment mode by pressing the ADJUST button.
- 4) Press the Channel UP/DOWN button to select adjustment items.
- 5) Press the Volume UP/DOWN button to adjust the data.
- 6) The TV set receives PAL-B/G Digital pattern.

## VS (Vertical Shift)

Adjust so that the horizontal center line of a digital circle pattern is in accord with geometric horizontal center of the CPT.

### **VA (Vertical Amplitude)**

Adjust so that the circle of a digital circle pattern may be located within the effective screen of the CPT.

### **HS (Horizontal Shift)**

Adjust so that the vertical center line of a digital circle pattern is in accord with geometric vertical center of the CPT.

### **EW (Horizontal Width)**

Adjust to that a digital circle pattern looks like exact circle.

### **A-BOW**

In line adjustment, not to change default value is basic.

### **A-ANG**

In angle adjustment, adjust until inclination of left and right screen should be precise.

### **EP (East-west Parabolar)**

Adjust so that middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the CPT.

### **UC**

Adjust until the vertical lines at upper left and right corner of the screen become straight after EP adjustment.

### **LC**

Adjust until the vertical lines at lower left and right corner of the screen become straight after EP adjustment.

### **SC (Vertical "S" Correction)**

Adjust so that all distance between each horizontal lines are to be the same.

### **VL (Vertical Linearity)**

Adjust so that the boundary line between upper and lower half is in accord with geometric horizontal center of the CPT.

Menu	Range	PAL	NTSC	VGA
VS	0-003F	24	2A	20
VA	0-003F	22	1F	16
HS	0-000F	1E	2E	1F
EW	0-000F	1E	1D	17
EP	0-003F	0C	0E	06
ET	0-003F	06	08	07
A-ANG	0-000F	07	07	07
A-BOW	0-000F	07	07	05
UC	0-000F	1D	21	18
LC	0-003F	1D	1D	15
U-VL	0-003F	0B	0B	0D
L-VL	0-003F	0A	07	0B
VL	0-000F	06	06	06
SC	0-000F	00	00	00
V-ASP	0-003F	2F	2F	2F

### **i. OPTION Adjustment (SVC MODE:OPTION-1, OPTION-2, OPTION-3, Teletext)**

- 1) Press YELLOW button or OP1,OP2,OP3,OP4 button on SVC Remote Controller.
- 2) Input data directly by the buttons corresponded with OPTION1 ???(0~127), OPTION2 ??(0~63), OPTION3 ???(0~127) and TELETEXT ???(6...131).
- 3) Select each OPTION function by the CH Up/Down button and then set up each OPTION by the VOL Up/Down button.

**Table 1. OPTION 1 Function**

Option	Code	Function	Remark
200 PR	0	100 PROGRAM	
	1	200 PROGRAM	
TSEAR	0	Without TURBO SEARCH	EU
	1	With TURBO SEARCH	NON-EU
I/II SV	0	NO SAVE DUAL/SOUND Condition	EU
	1	SAVE DUAL/SOUND Condition	NON-EU
TOP	0	FLOP TEXT	WITHOUT TEXT (TOP=0)
	1	TOP TEXT	
EYE	0	WITHOUT EYE	
	1	WITH EYE	
A2 ST	0	NICAM	
	1	NICAM/FM STEREO/DUAL	
SYS	0	BG/I/DK	
	1	BG/LL'	
	2	BG/I/DK/M	
	3	RESERVED	

**Table 2. OPTION 1 CODE Data**

OPTION Data	200 PR	TSEAR	I/II SV	TOP	EYE	A2 ST	SYS
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	1
2	0	0	0	0	0	0	2
3	0	0	0	0	0	0	3
4	0	0	0	0	0	1	0
5	0	0	0	0	0	1	1
6	0	0	0	0	0	1	2
7	0	0	0	0	0	1	3
8	0	0	0	0	1	0	0
9	0	0	0	0	1	0	1
10	0	0	0	0	1	0	2
11	0	0	0	0	1	0	3
12	0	0	0	0	1	1	0
13	0	0	0	0	1	1	1
14	0	0	0	0	1	1	2
15	0	0	0	0	1	1	3
16	0	0	0	1	0	0	0

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
17	0	0	0	1	0	0	1
18	0	0	0	1	0	0	2
19	0	0	0	1	0	0	3
20	0	0	0	1	0	1	0
21	0	0	0	1	0	1	1
22	0	0	0	1	0	1	2
23	0	0	0	1	0	1	3
24	0	0	0	1	1	0	0
25	0	0	0	1	1	0	1
26	0	0	0	1	1	0	2
27	0	0	0	1	1	0	3
28	0	0	0	1	1	1	0
29	0	0	0	1	1	1	1
30	0	0	0	1	1	1	2
31	0	0	0	1	1	1	3
32	0	0	1	0	0	0	0
33	0	0	1	0	0	0	1
34	0	0	1	0	0	0	2
35	0	0	1	0	0	0	3
36	0	0	1	0	0	1	0
37	0	0	1	0	0	1	1
38	0	0	1	0	0	1	2
39	0	0	1	0	0	1	3
40	0	0	1	0	1	0	0
41	0	0	1	0	1	0	1
42	0	0	1	0	1	0	2
43	0	0	1	0	1	0	3
44	0	0	1	0	1	1	0
45	0	0	1	0	1	1	1
46	0	0	1	0	1	1	2
47	0	0	1	0	1	1	3
48	0	0	1	1	0	0	0
49	0	0	1	1	0	0	1
50	0	0	1	1	0	0	2
51	0	0	1	1	0	0	3
52	0	0	1	1	0	1	0
53	0	0	1	1	0	1	1
54	0	0	1	1	0	1	2
55	0	0	1	1	0	1	3
56	0	0	1	1	1	0	0
57	0	0	1	1	1	0	1
58	0	0	1	1	1	0	2
59	0	0	1	1	1	0	3
60	0	0	1	1	1	1	0
61	0	0	1	1	1	1	1
62	0	0	1	1	1	1	2

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
63	0	0	1	1	1	1	3
64	0	1	0	0	0	0	0
65	0	1	0	0	0	0	1
66	0	1	0	0	0	0	2
67	0	1	0	0	0	0	3
68	0	1	0	0	0	1	0
69	0	1	0	0	0	1	1
70	0	1	0	0	0	1	2
71	0	1	0	0	0	1	3
72	0	1	0	0	1	0	0
73	0	1	0	0	1	0	1
74	0	1	0	0	1	0	2
75	0	1	0	0	1	0	3
76	0	1	0	0	1	1	0
77	0	1	0	0	1	1	1
78	0	1	0	0	1	1	2
79	0	1	0	0	1	1	3
80	0	1	0	1	0	0	0
81	0	1	0	1	0	0	1
82	0	1	0	1	0	0	2
83	0	1	0	1	0	0	3
84	0	1	0	1	0	1	0
85	0	1	0	1	0	1	1
86	0	1	0	1	0	1	2
87	0	1	0	1	0	1	3
88	0	1	0	1	1	0	0
89	0	1	0	1	1	0	1
90	0	1	0	1	1	0	2
91	0	1	0	1	1	0	3
92	0	1	0	1	1	1	0
93	0	1	0	1	1	1	1
94	0	1	0	1	1	1	2
95	0	1	1	0	0	1	3
96	0	1	1	0	0	0	0
97	0	1	1	0	0	0	1
98	0	1	1	0	0	0	2
99	0	1	1	0	0	0	3
100	0	1	1	0	0	1	0
101	0	1	1	0	0	1	1
102	0	1	1	0	0	1	2
103	0	1	1	0	0	1	3
104	0	1	1	0	1	0	0
105	0	1	1	0	1	0	1
106	0	1	1	0	1	0	2
107	0	1	1	0	1	0	3
108	0	1	1	0	1	1	0

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
109	0	1	1	0	1	1	1
110	0	1	1	0	1	1	2
111	0	1	1	0	1	1	3
112	0	1	1	1	0	0	0
113	0	1	1	1	0	0	1
114	0	1	1	1	0	0	2
115	0	1	1	1	0	0	3
116	0	1	1	1	0	1	0
117	0	1	1	1	0	1	1
118	0	1	1	1	0	1	2
119	0	1	1	1	0	1	3
120	0	1	1	1	1	0	0
121	0	1	1	1	1	0	1
122	0	1	1	1	1	0	2
123	0	1	1	1	1	0	3
124	0	1	1	1	1	1	0
125	0	1	1	1	1	1	1
126	0	1	1	1	1	1	2
127	0	1	1	1	1	1	3
128	1	0	0	0	0	0	0
129	1	0	0	0	0	0	1
130	1	0	0	0	0	0	2
131	1	0	0	0	0	0	3
132	1	0	0	0	0	1	0
133	1	0	0	0	0	1	1
134	1	0	0	0	0	1	2
135	1	0	0	0	0	1	3
136	1	0	0	0	1	0	0
137	1	0	0	0	1	0	1
138	1	0	0	0	1	0	2
139	1	0	0	0	1	0	3
140	1	0	0	0	1	1	0
141	1	0	0	0	1	1	1
142	1	0	0	0	1	1	2
143	1	0	0	0	1	1	3
144	1	0	0	1	0	0	0
145	1	0	0	1	0	0	1
146	1	0	0	1	0	0	2
147	1	0	0	1	0	0	3
148	1	0	0	1	0	1	0
149	1	0	0	1	0	1	1
150	1	0	0	1	0	1	2
151	1	0	0	1	0	1	3
152	1	0	0	1	1	0	0
153	1	0	0	1	1	0	1
154	1	0	0	1	1	0	2

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
155	1	0	0	1	1	0	3
156	1	0	0	1	1	1	0
157	1	0	0	1	1	1	1
158	1	0	0	1	1	1	2
159	1	0	0	1	1	1	3
160	1	0	1	0	0	0	0
161	1	0	1	0	0	0	1
162	1	0	1	0	0	0	2
163	1	0	1	0	0	0	3
164	1	0	1	0	0	1	0
165	1	0	1	0	0	1	1
166	1	0	1	0	0	1	2
167	1	0	1	0	0	1	3
168	1	0	1	0	1	0	0
169	1	0	1	0	1	0	1
170	1	0	1	0	1	0	2
171	1	0	1	0	1	0	3
172	1	0	1	0	1	1	0
173	1	0	1	0	1	1	1
174	1	0	1	0	1	1	2
175	1	0	1	0	1	1	3
176	1	0	1	1	0	0	0
177	1	0	1	1	0	0	1
178	1	0	1	1	0	0	2
179	1	0	1	1	0	0	3
180	1	0	1	1	0	1	0
181	1	0	1	1	0	1	1
182	1	0	1	1	0	1	2
183	1	0	1	1	0	1	3
184	1	0	1	1	1	0	0
185	1	0	1	1	1	0	1
186	1	0	1	1	1	0	2
187	1	0	1	1	1	0	3
188	1	0	1	1	1	1	0
189	1	0	1	1	1	1	1
190	1	0	1	1	1	1	2
191	1	0	1	1	1	1	3
192	1	1	0	0	0	0	0
193	1	1	0	0	0	0	1
194	1	1	0	0	0	0	2
195	1	1	0	0	0	0	3
196	1	1	0	0	0	1	0
197	1	1	0	0	0	1	1
198	1	1	0	0	0	1	2
199	1	1	0	0	0	1	3
200	1	1	0	0	1	0	0

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
201	1	1	0	0	1	0	1
202	1	1	0	0	1	0	2
203	1	1	0	0	1	0	3
204	1	1	0	0	1	1	0
205	1	1	0	0	1	1	1
206	1	1	0	0	1	1	2
207	1	1	0	0	1	1	3
208	1	1	0	1	0	0	0
209	1	1	0	1	0	0	1
210	1	1	0	1	0	0	2
211	1	1	0	1	0	0	3
212	1	1	0	1	0	1	0
213	1	1	0	1	0	1	1
214	1	1	0	1	0	1	2
215	1	1	0	1	1	1	3
216	1	1	0	1	1	0	0
217	1	1	0	1	1	0	1
218	1	1	0	1	1	0	2
219	1	1	0	1	1	0	3
220	1	1	0	1	1	1	0
221	1	1	0	1	1	1	1
222	1	1	0	1	1	1	2
223	1	1	1	0	0	1	3
224	1	1	1	0	0	0	0
225	1	1	1	0	0	0	1
226	1	1	1	0	0	0	2
227	1	1	1	0	0	0	3
228	1	1	1	0	0	1	0
229	1	1	1	0	0	1	1
230	1	1	1	0	0	1	2
231	1	1	1	0	0	1	3
232	1	1	1	0	1	0	0
233	1	1	1	0	1	0	1
234	1	1	1	0	1	0	2
235	1	1	1	0	1	0	3
236	1	1	1	0	1	1	0
237	1	1	1	0	1	1	1
238	1	1	1	0	1	1	2
239	1	1	1	0	1	1	3
240	1	1	1	1	0	0	0
241	1	1	1	1	0	0	1
242	1	1	1	1	0	0	2
243	1	1	1	1	0	0	3
244	1	1	1	1	0	1	0
245	1	1	1	1	0	1	1
246	1	1	1	1	0	1	2

OPTION Data	200 PR	TSEAR	I/I SV	TOP	EYE	A2 ST	SYS
247	1	1	1	1	0	1	3
248	1	1	1	1	1	0	0
249	1	1	1	1	1	0	1
250	1	1	1	1	1	0	2
251	1	1	1	1	1	0	3
252	1	1	1	1	1	1	0
253	1	1	1	1	1	1	1
254	1	1	1	1	1	1	2
255	1	1	1	1	1	1	3

Table 3. OPTION 2 Function

Option	Code	Function	Remark
ACMS	0	WITHOUT ACMS FUNTION	
	1	WITH ACMS FUNTION	
VOL	0	STANDARD CURVE	LOW STEP=>RUSH HIGH STEP=>SLOW
	1	RUSHED CURVE	
H/PHO	0	WITHOUT H/PHONE JACK	
	1	WITH H/PHONE JACK	
DVD	0	WITHOUT DVD(Y,Pb,Pr)	
	1	WITH DVD(Y,Pb,Pr)	
SAV	0		
	1	AV2 Y&C	
WOOF	0	WITHOUT WOOFER	
	1	WITH WOOFER	
VGA	0	WITHOUT VGA MODE	
	1	WITH VGA MODE	
Q30	0	Q90 TOOL	
	1	Q30 TOOL	

**Table 4. OPTION 2 CODE Data**

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	1	1
4	0	0	0	0	0	1	0	0
5	0	0	0	0	0	1	0	1
6	0	0	0	0	0	1	1	0
7	0	0	0	0	0	1	1	1
8	0	0	0	0	1	0	0	0
9	0	0	0	0	1	0	0	1
10	0	0	0	0	1	0	1	0
11	0	0	0	0	1	0	1	1
12	0	0	0	0	1	1	0	0
13	0	0	0	0	1	1	0	1
14	0	0	0	0	1	1	1	0
15	0	0	0	0	1	1	1	1
16	0	0	0	1	0	0	0	0
17	0	0	0	1	0	0	0	1
18	0	0	0	1	0	0	1	0
19	0	0	0	1	0	0	1	1
20	0	0	0	1	0	1	0	0
21	0	0	0	1	0	1	0	1
22	0	0	0	1	0	1	1	0
23	0	0	0	1	0	1	1	1
24	0	0	0	1	1	0	0	0
25	0	0	0	1	1	0	0	1
26	0	0	0	1	1	0	1	0
27	0	0	0	1	1	0	1	1
28	0	0	0	1	1	1	0	0
29	0	0	0	1	1	1	0	1
30	0	0	0	1	1	1	1	0
31	0	0	0	1	1	1	1	1
32	0	0	1	0	0	0	0	0
33	0	0	1	0	0	0	0	1
34	0	0	1	0	0	0	1	0
35	0	0	1	0	0	0	1	1
36	0	0	1	0	0	1	0	0
37	0	0	1	0	0	1	0	1
38	0	0	1	0	0	1	1	0
39	0	0	1	0	0	1	1	1
40	0	0	1	0	1	0	0	0
41	0	0	1	0	1	0	0	1
42	0	0	1	0	1	0	1	0
43	0	0	1	0	1	0	1	1
44	0	0	1	0	1	1	0	0

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
45	0	0	1	0	1	1	0	1
46	0	0	1	0	1	1	1	0
47	0	0	1	0	1	1	1	1
48	0	0	1	1	0	0	0	0
49	0	0	1	1	0	0	0	1
50	0	0	1	1	0	0	1	0
51	0	0	1	1	0	0	1	1
52	0	0	1	1	0	1	0	0
53	0	0	1	1	0	1	0	1
54	0	0	1	1	0	1	1	0
55	0	0	1	1	0	1	1	1
56	0	0	1	1	1	0	0	0
57	0	0	1	1	1	0	0	1
58	0	0	1	1	1	0	1	0
59	0	0	1	1	1	0	1	1
60	0	0	1	1	1	1	0	0
61	0	0	1	1	1	1	0	1
62	0	0	1	1	1	1	1	0
63	0	0	1	1	1	1	1	1
64	0	1	0	0	0	0	0	0
65	0	1	0	0	0	0	0	1
66	0	1	0	0	0	0	1	0
67	0	1	0	0	0	0	1	1
68	0	1	0	0	0	1	0	0
69	0	1	0	0	0	1	0	1
70	0	1	0	0	0	1	1	0
71	0	1	0	0	0	1	1	1
72	0	1	0	0	1	0	0	0
73	0	1	0	0	1	0	0	1
74	0	1	0	0	1	0	1	0
75	0	1	0	0	1	0	1	1
76	0	1	0	0	1	1	0	0
77	0	1	0	0	1	1	0	1
78	0	1	0	0	1	1	1	0
79	0	1	0	0	1	1	1	1
80	0	1	0	1	0	0	0	0
81	0	1	0	1	0	0	0	1
82	0	1	0	1	0	0	1	0
83	0	1	0	1	0	0	1	1
84	0	1	0	1	0	1	0	0
85	0	1	0	1	0	1	0	1
86	0	1	0	1	0	1	1	0
87	0	1	0	1	0	1	1	1
88	0	1	0	1	1	0	0	0
89	0	1	0	1	1	0	0	1
90	0	1	0	1	1	0	1	0

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
91	0	1	0	1	1	0	1	1
92	0	1	0	1	1	1	0	0
93	0	1	0	1	1	1	0	1
94	0	1	0	1	1	1	1	0
95	0	1	1	0	0	1	1	1
96	0	1	1	0	0	0	0	0
97	0	1	1	0	0	0	0	1
98	0	1	1	0	0	0	1	0
99	0	1	1	0	0	0	1	1
100	0	1	1	0	0	1	0	0
101	0	1	1	0	0	1	0	1
102	0	1	1	0	0	1	1	0
103	0	1	1	0	1	1	1	1
104	0	1	1	0	1	0	0	0
105	0	1	1	0	1	0	0	1
106	0	1	1	0	1	0	1	0
107	0	1	1	0	1	0	1	1
108	0	1	1	0	1	1	0	0
109	0	1	1	0	1	1	0	1
110	0	1	1	0	1	1	1	0
111	0	1	1	0	0	1	1	1
112	0	1	1	1	0	0	0	0
113	0	1	1	1	0	0	0	1
114	0	1	1	1	0	0	1	0
115	0	1	1	1	0	0	1	1
116	0	1	1	1	0	1	0	0
117	0	1	1	1	0	1	0	1
118	0	1	1	1	0	1	1	0
119	0	1	1	1	1	1	1	1
120	0	1	1	1	1	0	0	0
121	0	1	1	1	1	0	0	1
122	0	1	1	1	1	0	1	0
123	0	1	1	1	1	0	1	1
124	0	1	1	1	1	1	0	0
125	0	1	1	1	1	1	0	1
126	0	1	1	1	1	1	1	0
127	0	1	1	1	0	1	1	1
128	1	0	0	0	0	0	0	0
129	1	0	0	0	0	0	0	1
130	1	0	0	0	0	0	1	0
131	1	0	0	0	0	0	1	1
132	1	0	0	0	0	1	0	0
133	1	0	0	0	0	1	0	1
134	1	0	0	0	0	1	1	0
135	1	0	0	0	1	1	1	1
136	1	0	0	0	1	0	0	0

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
137	1	0	0	0	1	0	0	1
138	1	0	0	0	1	0	1	0
139	1	0	0	0	1	0	1	1
140	1	0	0	0	1	1	0	0
141	1	0	0	0	1	1	0	1
142	1	0	0	0	1	1	1	0
143	1	0	0	0	1	1	1	1
144	1	0	0	1	0	0	0	0
145	1	0	0	1	0	0	0	1
146	1	0	0	1	0	0	1	0
147	1	0	0	1	0	0	1	1
148	1	0	0	1	0	1	0	0
149	1	0	0	1	0	1	0	1
150	1	0	0	1	0	1	1	0
151	1	0	0	1	0	1	1	1
152	1	0	0	1	1	0	0	0
153	1	0	0	1	1	0	0	1
154	1	0	0	1	1	0	1	0
155	1	0	0	1	1	0	1	1
156	1	0	0	1	1	1	0	0
157	1	0	0	1	1	1	0	1
158	1	0	0	1	1	1	1	0
159	1	0	0	1	1	1	1	1
160	1	0	1	0	0	0	0	0
161	1	0	1	0	0	0	0	1
162	1	0	1	0	0	0	0	1
163	1	0	1	0	0	0	1	1
164	1	0	1	0	0	1	0	0
165	1	0	1	0	0	0	1	0
166	1	0	1	0	0	0	1	1
167	1	0	1	0	0	1	1	1
168	1	0	1	0	1	0	0	0
169	1	0	1	0	1	0	0	1
170	1	0	1	0	1	0	1	0
171	1	0	1	0	1	0	1	1
172	1	0	1	0	1	1	0	0
173	1	0	1	0	1	1	0	1
174	1	0	1	0	1	1	1	0
175	1	0	1	0	1	1	1	1
176	1	0	1	1	0	0	0	0
177	1	0	1	1	0	0	0	1
178	1	0	1	1	0	0	1	0
179	1	0	1	1	0	0	1	1
180	1	0	1	1	0	1	0	0
181	1	0	1	1	0	1	0	1
182	1	0	1	1	0	1	1	0

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
183	1	0	1	1	0	1	1	1
184	1	0	1	1	1	0	0	0
185	1	0	1	1	1	0	0	1
186	1	0	1	1	1	0	1	0
187	1	0	1	1	1	0	1	1
188	1	0	1	1	1	1	0	0
189	1	0	1	1	1	1	0	1
190	1	0	1	1	1	1	1	0
191	1	0	1	1	1	1	1	1
192	1	1	0	0	0	0	0	0
193	1	1	0	0	0	0	0	1
194	1	1	0	0	0	0	1	0
195	1	1	0	0	0	0	1	1
196	1	1	0	0	0	1	0	0
197	1	1	0	0	0	1	0	1
198	1	1	0	0	0	1	1	0
199	1	1	0	0	0	1	1	1
200	1	1	0	0	1	0	0	0
201	1	1	0	0	1	0	0	1
202	1	1	0	0	1	0	1	0
203	1	1	0	0	1	0	1	1
204	1	1	0	0	1	1	0	0
205	1	1	0	0	1	1	0	1
206	1	1	0	0	1	1	1	0
207	1	1	0	0	1	1	1	1
208	1	1	0	1	0	0	0	0
209	1	1	0	1	0	0	0	1
210	1	1	0	1	0	0	1	0
211	1	1	0	1	0	0	1	1
212	1	1	0	1	0	1	0	0
213	1	1	0	1	0	1	0	1
214	1	1	0	1	0	1	1	0
215	1	1	0	1	1	1	1	1
216	1	1	0	1	1	0	0	0
217	1	1	0	1	1	0	0	1
218	1	1	0	1	1	0	1	0
219	1	1	0	1	1	0	1	1
220	1	1	0	1	1	1	0	0
221	1	1	0	1	1	1	0	1
222	1	1	0	1	1	1	1	0
223	1	1	1	0	0	1	1	1
224	1	1	1	0	0	0	0	0
225	1	1	1	0	0	0	0	1
226	1	1	1	0	0	0	1	0
227	1	1	1	0	0	0	1	1
228	1	1	1	0	0	1	0	0

DATA	ACMS	VOL	H/PHO	DVD	SAV	WOOFER	VGA	Q30
229	1	1	1	0	0	1	0	1
230	1	1	1	0	0	1	1	0
231	1	1	1	0	0	1	1	1
232	1	1	1	0	1	0	0	0
233	1	1	1	0	1	0	0	1
234	1	1	1	0	1	0	1	0
235	1	1	1	0	1	0	1	1
236	1	1	1	0	1	1	0	0
237	1	1	1	0	1	1	0	1
238	1	1	1	0	1	1	1	0
239	1	1	1	0	1	1	1	1
240	1	1	1	1	0	0	0	0
241	1	1	1	1	0	0	0	1
242	1	1	1	1	0	0	1	0
243	1	1	1	1	0	0	1	1
244	1	1	1	1	0	1	0	0
245	1	1	1	1	0	1	0	1
246	1	1	1	1	0	1	1	0
247	1	1	1	1	0	1	1	1
248	1	1	1	1	1	0	0	0
249	1	1	1	1	1	0	0	1
250	1	1	1	1	1	0	1	0
251	1	1	1	1	1	0	1	1
252	1	1	1	1	1	1	0	0
253	1	1	1	1	1	1	0	1
254	1	1	1	1	1	1	1	0
255	1	1	1	1	1	1	1	1

Table 5. OPTION 3 Function

Option	Code	Function	Remark
WIDE	0	4:3 TV	
	1	16:9 TV	
EU	0	NON EU	
	1	EU	
CH+AU	0	Without D/K CHINA or BB	
	1	With D/K CHINA or BB	

Table 6. OPTION 3 CODE Data

DATA	WIDE	EU	CH+AU	DATA	WIDE	EU	CH+AU
0	0	0	0	192	1	1	0
32	0	0	1	224	1	1	1
64	0	1	0				
96	0	1	1				
128	1	0	0				
160	1	0	1				

**Table 7. OPTION 4 Function**

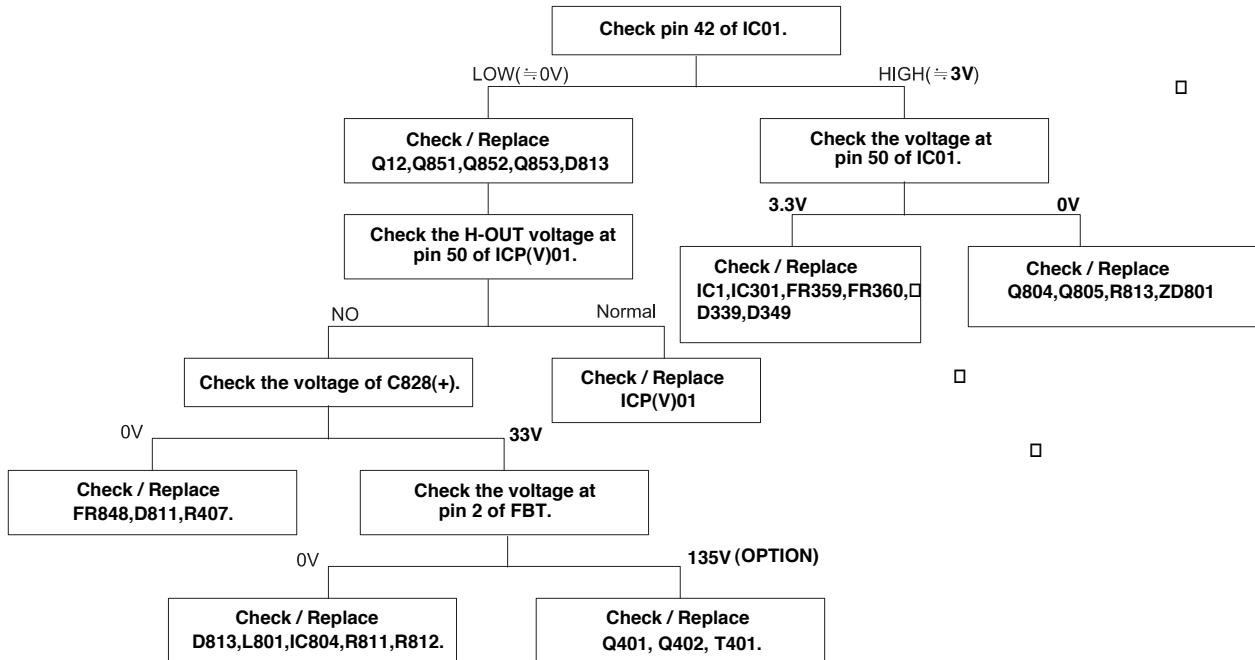
OPTION	CODE	Language	Function
LANG	0	E Only	English
	1	English+EU 4	English/German/French/Italian/Spanish
	2	English+Other EU	English/Dutch/Swedish/Norwegian/Danish/Swiss/Portuguese/Romanian/Polish/Hungarian/Czech/Russian
	3	English+FARSI	English/Farsi
	4	English+Arab+URDU	English/French/Arab+Urdu
	5	English+India	English/Swedish/Norwegian/Danish/Finish
	6	English+East-South Asia	English/Indonesian/Malaysian/Vietnamese
	7	English+THAI	English/Thai
	8	English+China	English/China
T LAN	0	West Europe	English/French/Swedish/Czech/German/Spanish/Italian
	1	East Europe	Polish/French/Swedish/Czech/German/Slovenian/Italian/Romanian
	2	Turkey	English/French/Swedish/Turkish/German/Spanish/Italian
	3	Czecho/Hungary	English/Hungarian/Serbian/Czech/German/Polish/Spanish/Italian/Romanian
	4	Cyrillic 1	
	5	Cyrillic 2	
	6	Cyrillic 3	
	7	Turkey/Greek 1	
	8	Turkey/Greek 2	
	9	Turkey/Greek 3	
	10	Arab/France	
	11	Arab/English	
	12	Arab/Hebrew 1	
	13	Arab/Hebrew 2	
	14	Farsi/English	
	15	Farsi/France	
	16	Farsi all	

**Table 8. OPTION 4 Code Data**

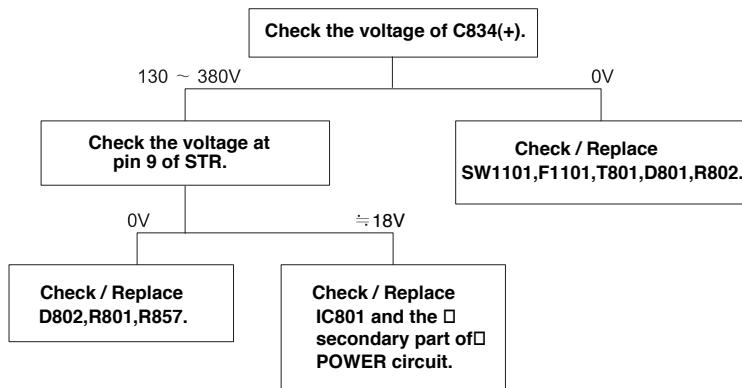
DATA	LANG	TLAN									
000	0	0	203	2	3	406	4	6	609	6	9
001	0	1	204	2	4	407	4	7	610	6	10
002	0	2	205	2	5	408	4	8	611	6	11
003	0	3	206	2	6	409	4	9	612	6	12
004	0	4	207	2	7	410	4	10	613	6	13
005	0	5	208	2	8	411	4	11	614	6	14
006	0	6	209	2	9	412	4	12	615	6	15
007	0	7	210	2	10	413	4	13	616	6	16
008	0	8	211	2	11	414	4	14	700	7	0
009	0	9	212	2	12	415	4	15	701	7	1
010	0	10	213	2	13	416	4	16	702	7	2
011	0	11	214	2	14	500	5	0	703	7	3
012	0	12	215	2	15	501	5	1	704	7	4
013	0	13	216	2	16	502	5	2	705	7	5
014	0	14	300	3	0	503	5	3	706	7	6
015	0	15	301	3	1	504	5	4	707	7	7
016	0	16	302	3	2	505	5	5	708	7	8
100	1	0	303	3	3	506	5	6	709	7	9
101	1	1	304	3	4	507	5	7	710	7	10
102	1	2	305	3	5	508	5	8	711	7	11
103	1	3	306	3	6	509	5	9	712	7	12
104	1	4	307	3	7	510	5	10	713	7	13
105	1	5	308	3	8	511	5	11	714	7	14
106	1	6	309	3	9	512	5	12	715	7	15
107	1	7	310	3	10	513	5	13	716	7	16
108	1	8	311	3	11	514	5	14	800	8	0
109	1	9	312	3	12	515	5	15	801	8	1
110	1	10	313	3	13	516	5	16	802	8	2
111	1	11	314	3	14	600	6	0	803	8	3
112	1	12	315	3	15	601	6	1	804	8	4
113	1	13	316	3	16	602	6	2	805	8	5
114	1	14	400	4	0	603	6	3	806	8	6
115	1	15	401	4	1	604	6	4	807	8	7
116	1	16	402	4	2	605	6	5	808	8	8
200	2	0	403	4	3	606	6	6	809	8	9
201	2	1	404	4	4	607	6	7	810	8	10
202	2	2	405	4	5	608	6	8	811	8	11

# Trouble Shooting

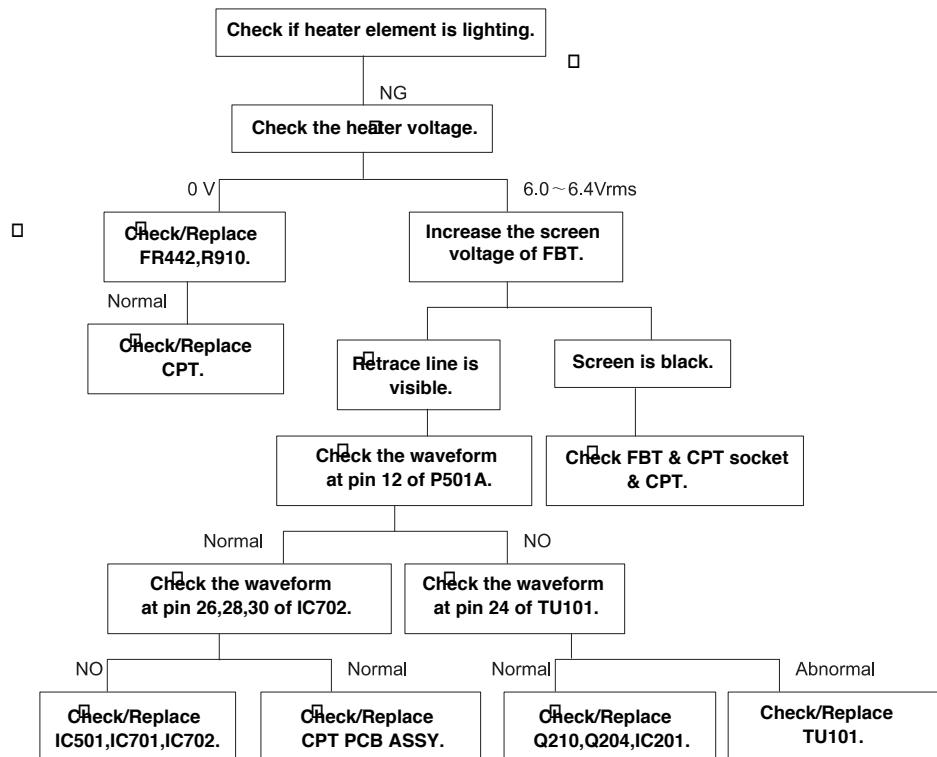
## NO POWER ON BUT SMPS WORKING



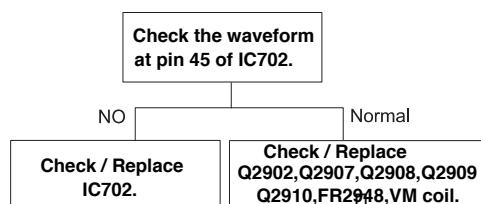
## NO POWER (NOT WORKING SMPS)



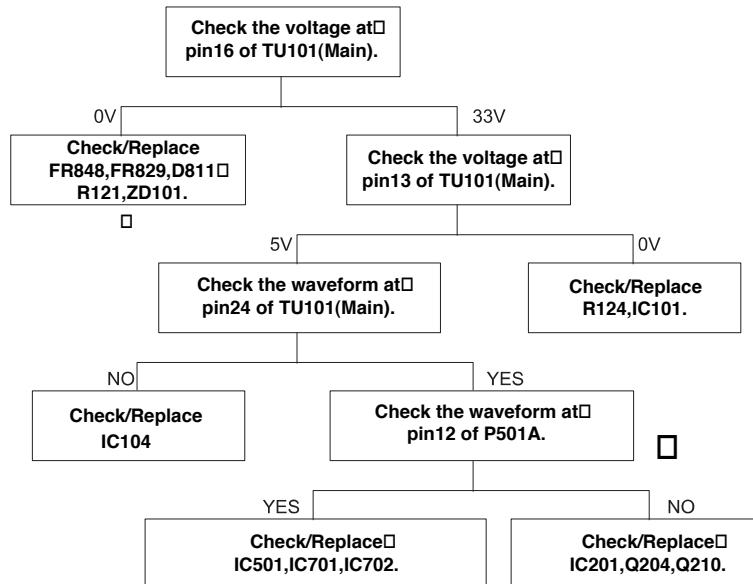
## NO RASTER & PICTURE ( H-OUT OK)



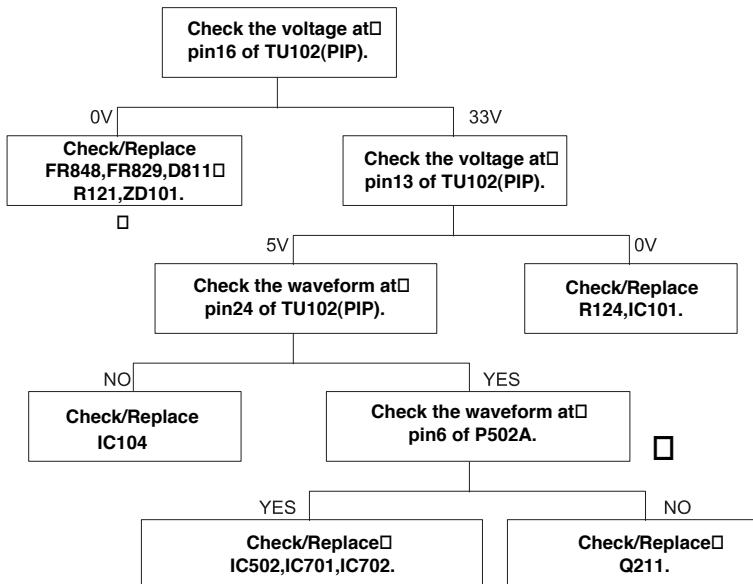
## VM DON'T WORKING



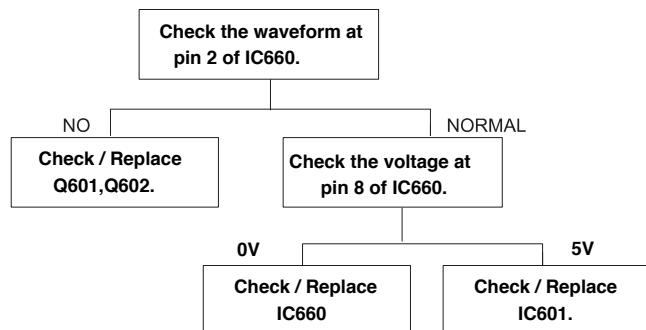
## DON'T CATCH CHANNEL(MAIN)



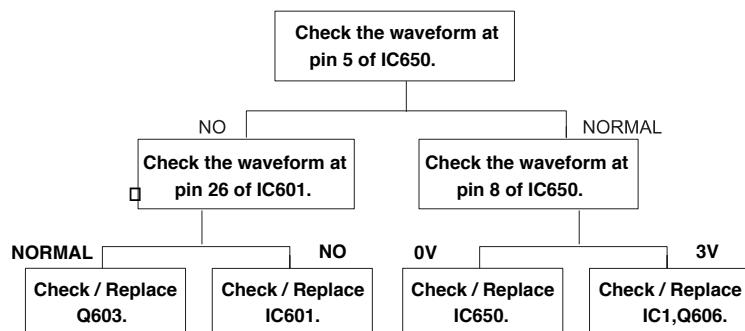
## NO PIP / NO DOUBLE WINDOW



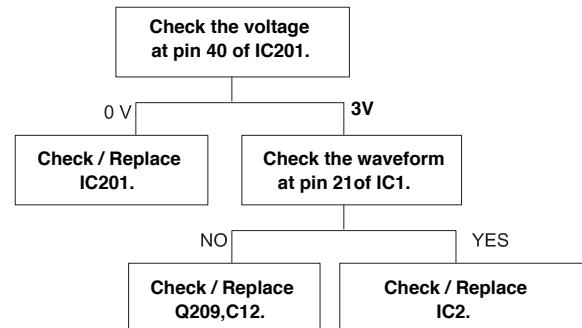
## **NO CENTER SPEAKER SOUND□ (BUT MAIN SOUND OK)**



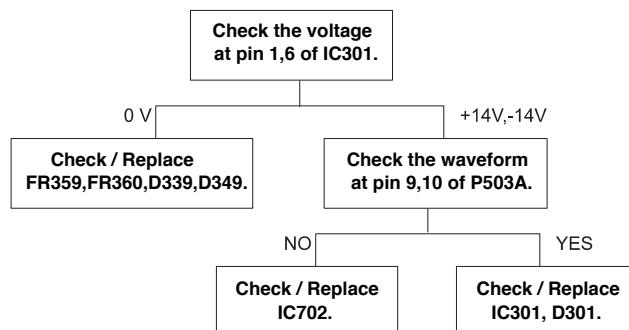
## **NO WOOFER SPEAKER SOUND□ (BUT MAIN SOUND OK)**



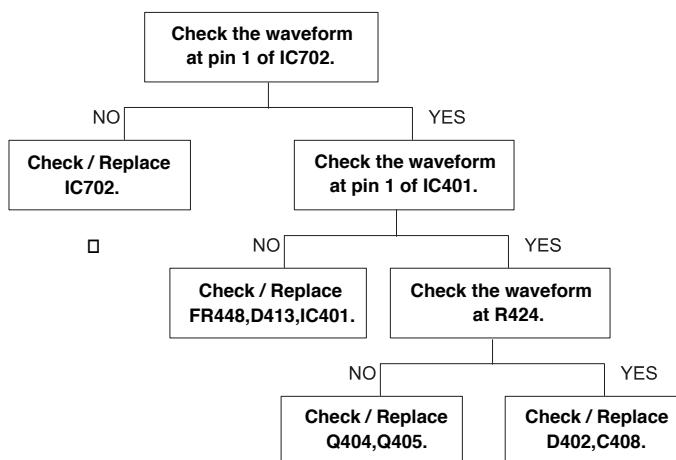
## NO TELETEXT



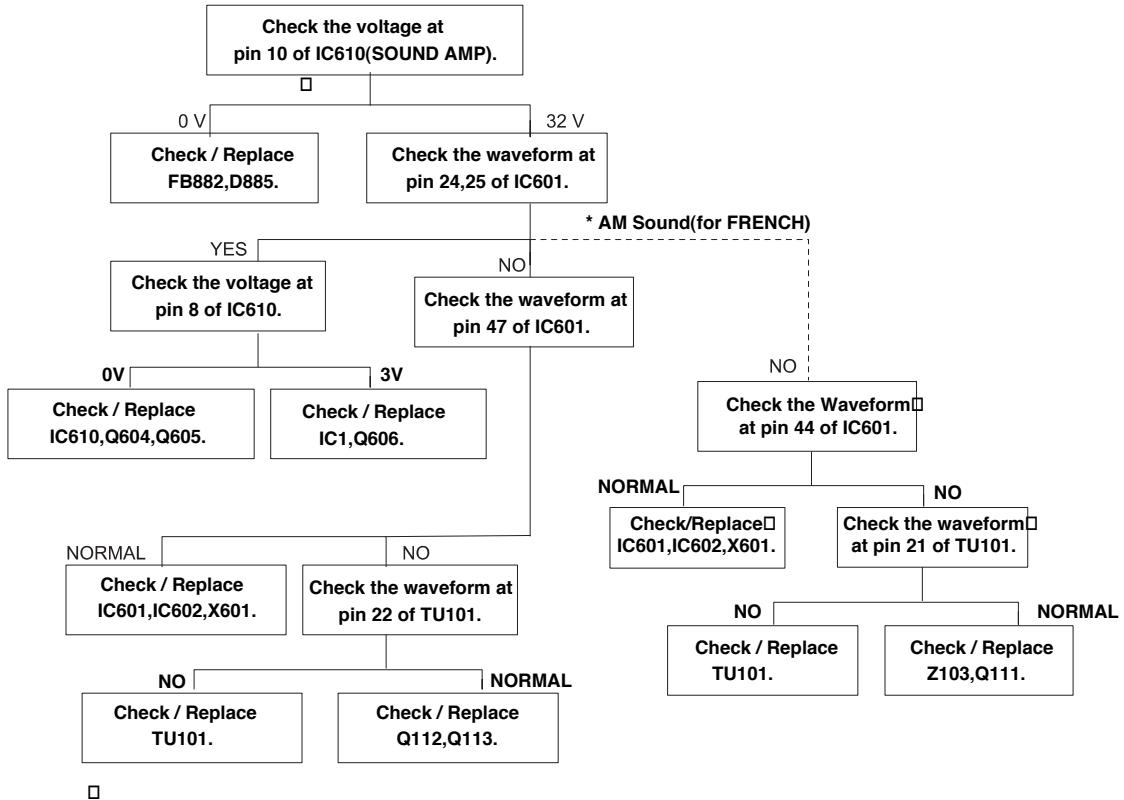
## NO VERTICAL DEFLECTION



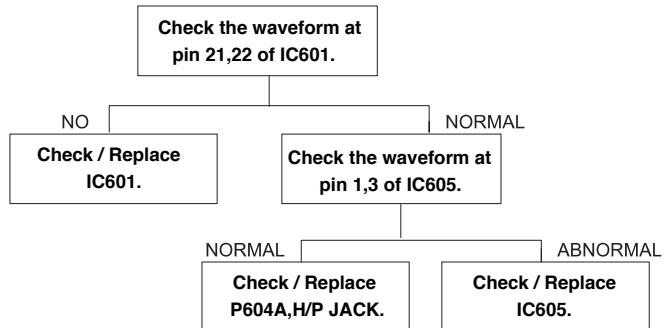
## BARREL DISTORTION



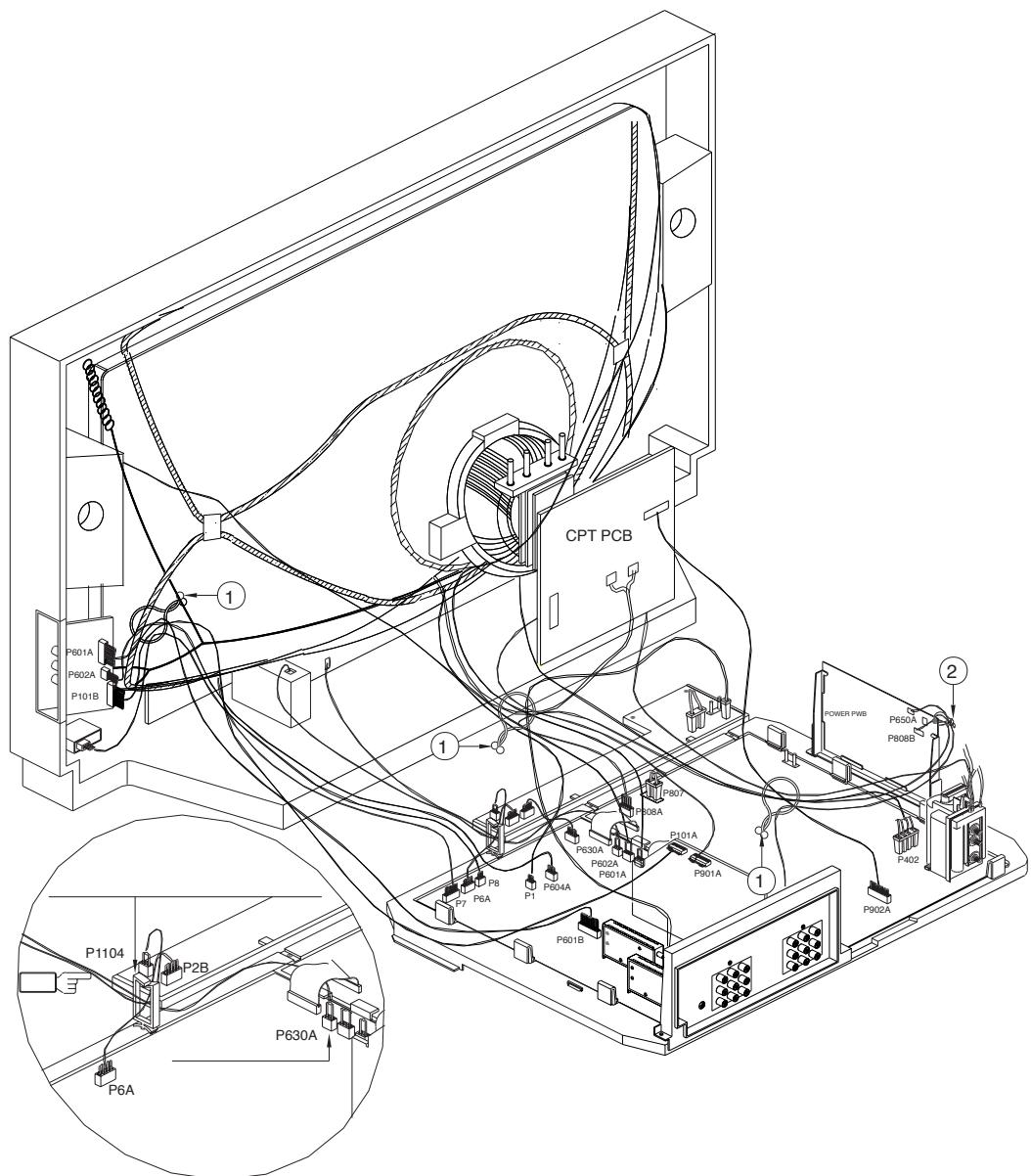
## NO FRONT L,R SPEAKER SOUND(PICTURE OK)



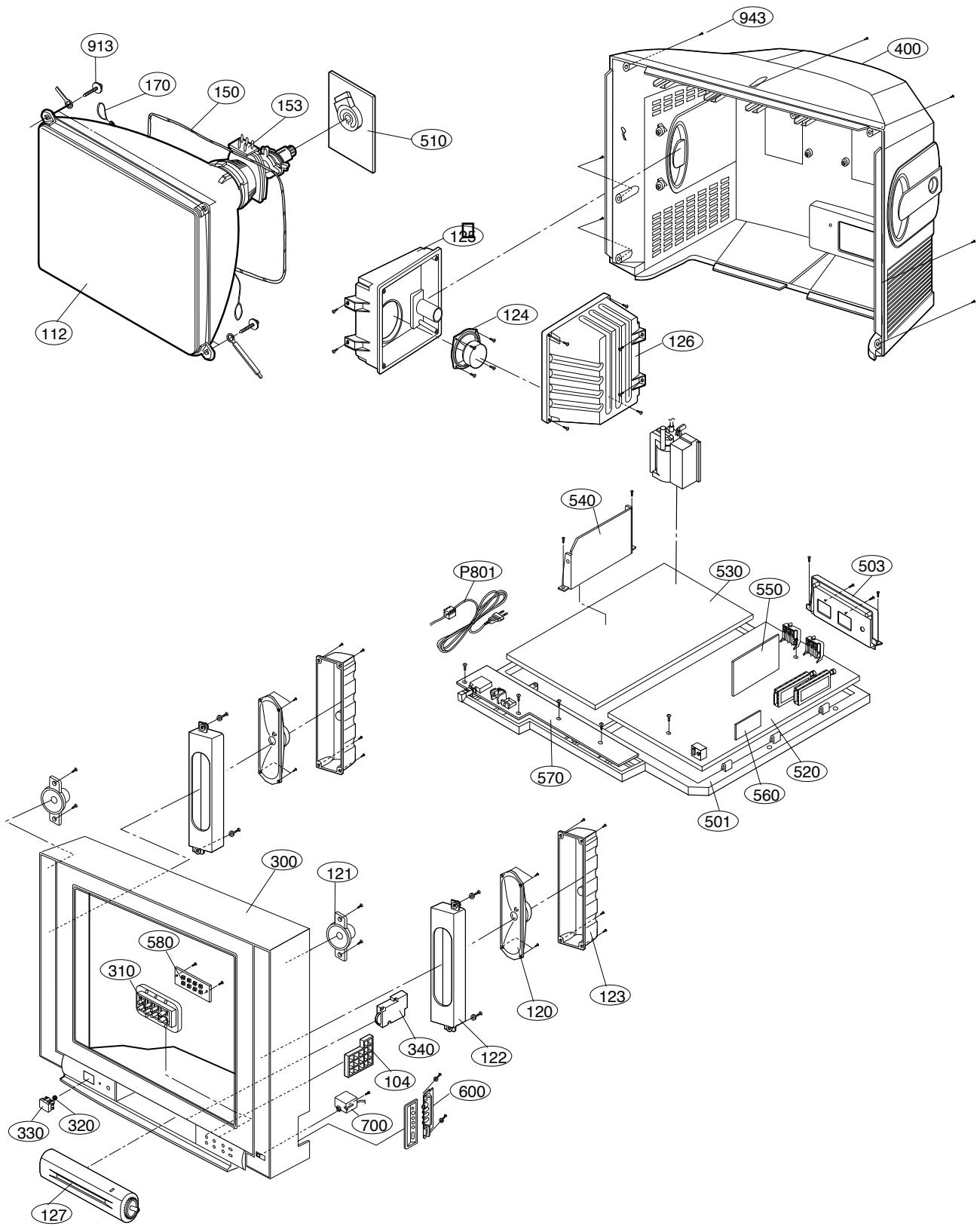
## NO SOUND FROM H/P jack(OPTION) (but Main Sound OK)



## Wiring Diagram



## EXPLODED VIEW



The components identified by mark △ is critical for safety.  
Replace only with part number specified.

## EXPLODED VIEW PARTS LIST

LOCA. NO	PART NO	DESCRIPTIONS
△ 112	6341V29005A	BARE CPT ASSY,2426GF239AT 100HZ DY
120	6400VA0025A	SPEAKER,GENERAL 8 OHM 15/25
121	6400VG0002A	SPEAKER,TWEETER 8 OHM 10
122	3110V00084A	CASE,MIDDLE SPEAKER
123	3550V00117A	COVER,MIDDLE SPEAKER
124	120-C78G	SPEAKER,WOOFER C130R06K1457 8 OHM 10W/
125	3110V00080C	CASE,SPK WOOFER
126	3550V00103C	COVER,WOOFER
127	6401VF0035B	SPEAKER ASSY,DOME CENTER
△ 150	150-201S	COIL,DEGAUSSING CU 29" 440TURN 102 OHM
△ 153	6150Z-1340F	DY DC29SLFL2
△ 170	170-844K	CPT EARTH 29" 98T 4LUG
300	3091V00281B	CABINET ASSY
310	5020V00427A	BUTTON,CONTROL 8KEY
320	320-070G	SPRING,COIL
330	5020V00426A	BUTTON,POWER
340	4470V00019A	GEAR ASSY, MOVING CTR SPK
400	3809V00207M	BACK COVER ASSY
501	4810V00259A	BRACKET,MAIN MC-006A
503	4810V00261B	BRACKET,REAR A/V HIPS 2 SCART,1 SCART
510	6871VSM738A	PWB ASSY,CPT MC006A CPT&VM
520	6871VMM637H	PWB ASSY,MAIN 006A
530	6871VDM113G	PWB ASSY,MAIN2 006A LG29Q90ID,W/ST-BY,N
540	6871VSM815C	PWB ASSY,006A 29"N-RANGE
550	6871VSM617A	PWB ASSY,DIGIT MC006A 100HZ BOD.
560	6871VSM694A	PWB ASSY,MEMORY
570	6871VSM685A	PWB ASSY,MC006A CONTROL
580	6871VSM686A	PWB ASSY,TACT-SWITCH
600	6871VSM620C	PWB ASSY,006A CE29Q90 SIDE-AV
700	0IGL120104A	IC,CDS SENSOR MODULE(P1201-04)
913	332-229N	SCREW,DRAWING D7.0 L45.0 MSWR3
943	1PTF0403116	SCREW,TAP TITE(P)D4.0 L16.0
△ P801	174-322D	POWER CORD W/FILTER L=300(179B)VDE

The components identified by mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

## REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
<b>IC</b>					
D813	0ISK100300A	IC,SLA1003 SIP12 BK DIODE MODULE(	D308	ODD100009AQ	DIODE,RP1HV(1) TP SANKEN TP SANKEN
IC1	0ISM555000A	IC,SDA5550 MQFP100 BK MICOM TXT M	D339	ODD200009AF	DIODE,RECTIFIER RU2M V(1) TP SANKEN
IC2	0ISS610082A	IC,K6T1008V2E-TB(F)70  K6T1008BLT	D349	ODD200009AF	DIODE,RECTIFIER RU2M V(1) TP SANKEN
IC3	0IZZVC0010A	IC,M27W201(006A) . ST EPROM+LABEL	D402	ODD300000AD	DIODE,RECTIFIER FMS-3FU SANKEN
IC4	0IAL241610B	IC,AT24C16-10PC-2.7 8PIN DIP ST E	D410	ODD150009CA	DIODE,RECTIFIER RGP15J,TP(52MM),GI
IC5	0IFA752700A	IC,KA75270Z 3 TP RE-SET IC MC-007	D411	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
IC6	0IFA754207A	IC,KA75420ZTA(KA7542ZTA) 3P,TO-92	D413	ODD150009CC	DIODE,RECTIFIER RGP15G,TP(52MM),GI
IC7	0ISA164500B	IC,LB1645N 10SIP BK MOTOR DRIVE I	D414	ODD100009AE	DIODE,RECTIFIER RU1A V(1) TP SANKEN
IC8	0ISG111725B	IC,LD1117V25 3 SIP ST REGULATOR M	D425	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC9	0ISG111733B	IC,LD1117V33C 3SIP ST REGULATOR	D601	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC101	0IKE780500Q	IC,KIA7805API 3P TO-220 ST REGULA	D602	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC301	0ISA784500A	IC,LA7845 7SIP V/OUT(1.5A)	D603	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC104	0IMI623200B	IC,M62320FP,I/O EXPANDER 16P SOP	D604	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC201	0ISO208900A	IC,CXA2089Q 48QFP BK A/V SWITCH	D606	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC302	0IKE455800E	IC,KIA4558 8DIP DUAL OP AMP	D607	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC401	0IKE455800E	IC,KIA4558 8DIP DUAL OP AMP	D608	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC501	0II7323000C	IC,VPC3230D-QA-B3 80P PQFP BK COM	D609	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC502	0II7323000C	IC,VPC3230D-QA-B3 80P PQFP BK COM	D610	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC504	0ISH323422A	IC,PQ3RF23 4P(TO-220) 3.3V REGUL	D630	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC601	0II7341120A	IC,MSP3411G-PO-A2 52DIP ST SOUND	D650	ODS113379BA	DIODE,SWITCHING 1SS133 T-72 TP
IC602	0IKE780800B	IC,KIA78L08BP(TA) TO-92 8V,150MA	D701	ODD184009AA	DIODE,SWITCHING KDS184S CHIP 85V 300MA
IC605	0ISG282200A	IC,TDA2822M 8D DUAL AUDIO AMP(1W)	D702	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC610	0ISA428200A	IC,LA4282 12S 2CHX10W AUDIO AMP	D703	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC650	0ISA428200A	IC,LA4282 12S 2CHX10W AUDIO AMP	D704	ODD184009AA	DIODE,SWITCHING KDS184S CHIP 85V 300MA
IC701	0ISM941000A	IC,SDA9410 100QFP BK SCAN CONVERT	D705	ODD414809ED	DIODE,1N4148 TA
IC702	0ISO210000A	IC,CXA2100AQ 64P QFP BK DEFLECTIO	D706	ODD414809ED	DIODE,1N4148 TA
IC703	0IKE780900M	IC,KIA7809API TO220 ST 3P 9V REGU	D709	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC704	0IMO741570H	IC,SN74LS157D 16P,SOP TP QUAD 2IN	D710	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
IC801	0ISK670900A	IC,STR/S6709 9S SMPS-CNTN	D711	ODD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
$\Delta$ IC802	0ILI817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU	D712	ODD414809ED	DIODE,1N4148 TA
IC804	0ISK130000A	IC,SE130N 3P 130V ERROR AMP - - -	D713	ODD414809ED	DIODE,1N4148 TA
IC831	0ISH052100C	IC,PQ05RD21 4SIP ST REGULATOR	D801	ODD560000AA	DIODE,RECTIFIER D5SB60 BRIDGE(5A/600V)
IC832	0ISH122100A	IC,PQ12RF21 4P(TO-220) 12V S/W RE	D803	ODD100009AM	DIODE,RECTIFIER EU1ZV(1) TP SANKEN
IC833	0IKE780900M	IC,KIA7809API TO220 ST 3P 9V REGU	D805	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
IC901	0IPH611190A	IC,TDA6111Q 9SIP RGB AMP	D806	ODD100009AM	DIODE,RECTIFIER EU1ZV(1) TP SANKEN
IC902	0IPH611190A	IC,TDA6111Q 9SIP RGB AMP	D807	ODD100009AM	DIODE,RECTIFIER EU1ZV(1) TP SANKEN
IC903	0IPH611190A	IC,TDA6111Q 9SIP RGB AMP	D808	ODD100009AL	DIODE,EH-1ZV(1)
IC1101	0IMO156216A	IC,JLC1562BN 16D I,C BUS EXPANDER	D809	ODD414809ED	DIODE,1N4148 TA
IC1102	0ISA164500B	IC,LB1645N 10SIP BK MOTOR DRIVE I	D811	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
IC1251	0IRH707800A	IC,BA7078S 18P,SDIP BK SYNC DISCR	D825	ODD414809ED	DIODE,1N4148 TA
Q109	0IFA270000A	IC,2N7000TA TO-92, 3P TP LEVEL SH	D826	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
Q110	0IFA270000A	IC,2N7000TA TO-92, 3P TP LEVEL SH	D827	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
Q114	0IFA270000A	IC,2N7000TA TO-92, 3P TP LEVEL SH	D828	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
Q115	0IFA270000A	IC,2N7000TA TO-92, 3P TP LEVEL SH	D829	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
<b>DIODE</b>					
D6	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	D851	ODD060009AC	DIODE,TVR06J 0.6A/600V 250NS TP G.I
D7	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	D885	ODD420000BB	DIODE,D4L20U SHINDENGEN
D8	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	D900	ODR060009AA	DIODE,RECTIFIER TVR06J
D101	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	D901	ODR060009AA	DIODE,RECTIFIER TVR06J
D301	ODD150009CA	DIODE,RECTIFIER RGP15J,TP(52MM),GI	D902	ODR060009AA	DIODE,RECTIFIER TVR06J
			D903	ODR060009AA	DIODE,RECTIFIER TVR06J
			D904	ODR060009AA	DIODE,RECTIFIER TVR06J
			D908	ODR060009AA	DIODE,RECTIFIER TVR06J
			D909	ODR060009AA	DIODE,RECTIFIER TVR06J

For Capacitor & Resistors,  
the characters at 2nd and 3rd  
digit in the P/No. means as  
follows;

CC, CX, CK, CN : Ceramic	RD : Carbon Film
CO : Polyester	RS : Metal Oxide Film
CE : Electrolytic	RN : Metal Film
	RF : Fusible

The components identified by mark  $\Delta$  are  
critical for safety.  
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
D910	ODR140059AC	DIODE,RECTIFIER 1N4005GP TP	Q209	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
D1101	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q210	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
D2901	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q211	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
D2902	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q212	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
D2903	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q308	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
D2906	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q310	OTR127509AC	TR,KTA1275-Y TP(KTA1013),KEC
D2907	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q311	OTR471000AA	TR,2SC4710 SANYO OTOROLA IBA
D2909	ODD150009CA	DIODE,RECTIFIER RGP15J,TP(52MM),GI	Q401	OTF200000AA	TR,IRFIBC20G BK I.R 600V - -
D2910	ODD150009CA	DIODE,RECTIFIER RGP15J,TP(52MM),GI	Q402	OTR544600AA	TR,2SC5446(AS) BK TOSHIBA TO3P 17
D2911	0DS113379BA	DIODE,SWITCHING 1SS133 T-72	Q404	OTR127509AC	TR,KTA1275-Y TP(KTA1013),KEC
LD1101	162-002B	DIODE LED ASSY	Q405	OTR205900AB	TR,KTD2059-Y TO-220IS KEC
ZD2	0DZ330009CC	DIODE,ZENER MTZJ3.8B TP ROHM-K DO34 500MW	Q501	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
ZD3	0DZ910009AJ	DIODE,ZENERS MTZJ9.1B TP ROHM-K DO34 0.5W	Q503	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
ZD101	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI	Q601	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD102	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI	Q602	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD350	0DZ240009CG	DIODE,ZENERS MTZJ24B TP ROHM-K DO34 - 24V 5	Q603	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
ZD351	0DZ750009AG	DIODE,ZENERS MTZJ7.5B TP ROHM-K DO34 0.5W 7	Q604	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
ZD403	0DZ910009AJ	DIODE,ZENERS MTZJ9.1B TP ROHM-K DO34 0.5W 9	Q605	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
ZD801	0DZ510009DB	DIODE,ZENERS MTZJ5.1B TP ROHM-K DO34 - 5.1	Q606	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
ZD804	0DZ750009AG	DIODE,ZENERS MTZJ7.5B TP ROHM-K DO34 0.5W 7	Q607	OTR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
ZD901	0DZ910009AJ	DIODE,ZENERS MTZJ9.1B TP ROHM-K DO34 0.5W 9	Q701	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD930	0DZ120009AF	DIODE,ZENERS MTZJ12B TP ROHM-K DO34 - 12V 5	Q702	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD1101	0DZ910009AJ	DIODE,ZENERS MTZJ9.1B TP ROHM-K DO34 0.5W 9	Q703	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD1201	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W 6	Q704	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD1202	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W 6	Q705	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD1205	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W 6	Q706	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
ZD1206	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W 6	Q707	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
ZD1251	0DZ510009DB	DIODE,ZENERS MTZJ5.1B TP ROHM-K DO34 - 5.1	Q708	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
ZD1252	0DZ510009DB	DIODE,ZENERS MTZJ5.1B TP ROHM-K DO34 - 5.1	Q709	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
<b>TRANSISTOR</b>			Q710	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q6	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q711	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q7	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q713	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q8	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q714	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q9	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q715	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q10	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q801	OTR385200AA	TR,2SC3852A SANKEN
Q11	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q802	OTR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q12	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q803	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q13	OTR102009AG	TR,CHIP KRC102S SOT-23 TP KEC	Q804	OTR968000AA	TR,KTA968A-Y KEC
Q14	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q805	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q15	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC	Q811	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q16	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC	Q812	OTR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q17	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC	Q900	OTR127109AA	TR,KTA1271-TP-Y (KTA950) KEC
Q101	OTR127009AA	TR,KTA1270-TP-Y (KTA562TM) KEC	Q1101	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q102	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q1102	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
Q112	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC	Q1103	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q113	OTR150400BA	TR,CHIP 2SA1504S(ASY) KEC	Q2902	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q204	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)	Q2907	OTR126609AA	TR,KTA1266-TP-Y (KTA1015) KEC
Q205	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)	Q2908	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)
Q206	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)	Q2909	OTR165900AC	TR,KTA1659A-Y TO-220IS BK KEC - -
Q207	OTR319809AA	TR,KTC3198 TP KEC - - Y (KTC1815)	Q2910	OTR437000BA	TR,KTC4370A-Y TO-220IS KEC
Q208	OTR387500AA	TR,CHIP 2SC3875S(ALY) KEC			

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LOCA. NO	PART NO	DESCRIPTION
<b>CAPACITOR</b>		
C4	OCE476DD618	47UF STD 10V 20% FL TP 5
C6	OCE107DD618	100UF STD 10V M FL TP5
C8	OCE476DD618	47UF STD 10V 20% FL TP 5
C9	OCN1030F679	10000P 16V M Y TA52
C10	OCE476DD618	47UF STD 10V 20% FL TP 5
C11	OCE476DD618	47UF STD 10V 20% FL TP 5
C12	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1
C14	OCE107DD618	100UF STD 10V M FL TP5
C16	OCE476DD618	47UF STD 10V 20% FL TP 5
C17	OCE107DD618	100UF STD 10V M FL TP5
C24	OCE476DD618	47UF STD 10V 20% FL TP 5
C25	OCE106DF618	10UF STD 16V M FL TP5
C27	OCQ1531N509	0.015U 100V K POLY TP
C30	OCE226DF618	22UF STD 16V M FL TP5
C32	OCQ1031N509	0.01U 100V K POLY TP
C33	OCQ1031N509	0.01U 100V K POLY TP
C34	OCE227DH618	220UF STD 25V M FL TP5
C37	OCE107DD618	100UF STD 10V M FL TP5
C38	OCE107DD618	100UF STD 10V M FL TP5
C118	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C119	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C120	OCE477DF618	470UF STD 16V 20% FL TP 5
C124	OCE106DF618	10UF STD 16V M FL TP5
C125	OCE106DF618	10UF STD 16V M FL TP5
C131	OCE476DF618	47UF STD 16V M FL TP5
C132	OCE476DD618	47UF STD 10V 20% FL TP 5
C133	OCE476DD618	47UF STD 10V 20% FL TP 5
C134	OCE106DK618	10UF STD 50V M FL TP5
C135	OCE106DK618	10UF STD 50V M FL TP5
C136	OCE477DF618	470UF STD 16V 20% FL TP 5
C137	OCE227DF618	220UF STD 16V M FL TP5
C150	OCE477DD618	470UF STD 10V M FL TP5
C151	OCE477DF618	470UF STD 16V 20% FL TP 5
C152	OCE477DF618	470UF STD 16V 20% FL TP 5
C153	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C207	OCN4710K519	470P 50V K B TA52
C229	OCE476DF618	47UF STD 16V M FL TP5
C230	OCE227DF618	220UF STD 16V M FL TP5
C231	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C232	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C233	OCE105DK618	1UF STD 50V M FL TP5
C234	OCE105DK618	1UF STD 50V M FL TP5
C235	OCE105DK618	1UF STD 50V M FL TP5
C236	OCE105DK618	1UF STD 50V M FL TP5
C238	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C241	OCE105DK618	1UF STD 50V M FL TP5
C243	OCE105DK618	1UF STD 50V M FL TP5
C244	181-064P	10UF 0 16V K
C245	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C246	181-064P	10UF 0 16V K

LOCA. NO	PART NO	DESCRIPTION
C247	OCE227DF618	220UF STD 16V M FL TP5
C249	OCN4710K519	470P 50V K B TA52
C266	OCE226DF618	22UF STD 16V M FL TP5
C267	OCE107DF618	1000UF STD 16V M FL TP5
C268	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C269	OCE106DF618	10UF STD 16V M FL TP5
C270	OCE106DF618	10UF STD 16V M FL TP5
C303	OCE477DH618	470UF STD 25V M FL TP5
C305	OCE477DH618	470UF STD 25V M FL TP5
C306	OCN1030F679	10000P 16V M Y TA52
C307	OCN1030F679	10000P 16V M Y TA52
C308	OCQ3341N401	0.33U 100V J POLY F5
C310	OCE107BJ618	100UF KME 35V M FL TP5
C312	OCN1030F679	10000P 16V M Y TA52
C313	OCQ3331N509	0.033U 100V K POLY TP
C314	OCE107DF618	100UF STD 16V M FL TP5
C316	OCE228DJ650	2200UF STD 35V M FM7.5 BULK
C320	181-014N	MPP 1600V 0.01UF J
C324	OCQ1531N509	0.015U 100V K POLY TP
C330	OCE227DH618	220UF STD 25V M FL TP5
C331	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.4
C332	OCQ1021N509	0.001U 100V K POLY TP
C333	OCN1030F679	10000P 16V M Y TA52
C334	OCE107DF618	100UF STD 16V M FL TP5
C335	OCE107DF618	100UF STD 16V M FL TP5
C336	OCE107DF618	100UF STD 16V M FL TP5
C338	OCE108DH618	1000UF STD 25V M FL TP5
C340	181-014F	MPP 1600V 0.0068UF J
C348	OCE108DH618	1000UF STD 25V M FL TP5
C403	OCK2210W515	220P 500V K B TS
C404	181-009V	PP 200V 0.047UF K
C405	181-014Y	MPP 1.6KV 0.0015UF J
C406	OCK102021515	1000P 1KV K B TS
C408	181-015L	MPP 1600V 0.0095UF H
C409	181-010T	PP 630V 0.015UF J
C413	181-038D	MPP 400V 0.24MF J
C414	181-013U	MPP 630V 0.1UF J
C415	181-010E	PP 400V 0.12UF J
C416	OCE107DK618	100UF STD 50V M FL TP5
C417	OCK1030K945	0.01UF 50V Z F TR
C418	OCN6810K519	680P 50V K B TA52
C419	OCN1030F679	10000P 16V M Y TA52
C422	OCE5651K652	5.6UF SM,SA 50V 20% FM7.5 BP(S
C423	OCE5651K652	5.6UF SM,SA 50V 20% FM7.5 BP(S
C426	OCQ3331N509	0.033U 100V K POLY TP
C428	OCQ1031N509	0.01U 100V K POLY TP
C430	OCK22202510	2200P 2KV K B S
C435	181-009V	PP 200V 0.047UF K
C438	OCE107DK618	100UF STD 50V M FL TP5
C446	OCK56102515	560P 2KV K B TS
C447	OCE476DR618	47UF STD 250V 20% FL TP 5
C481	181-010G	PP 400V 0.01UF K

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C482	181-091G	DEHR3D471KN3A DE0907-486 R 4	C630	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.4
C488	0CE106BR618	10UF KME 250V M FL TP5	C631	181-442Z	PE,ECQ-B1H104KF3(TR)
C501	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C632	0CE107BJ618	100UF KME 35V M FL TP5
C502	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C633	0CE107BJ618	100UF KME 35V M FL TP5
C503	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C634	0CE106DF618	10UF STD 16V M FL TP5
C504	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C635	0CE106DF618	10UF STD 16V M FL TP5
C505	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C636	0CE108DJ618	1000UF STD 35V M FL TP5
C506	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C637	0CE108DJ618	1000UF STD 35V M FL TP5
C507	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C638	0CK1030K945	0.01UF 50V Z F TR
C519	0CE106DF618	10UF STD 16V M FL TP5	C639	0CE108DK61A	1000UF STD 50V M FL TP7.5
C523	0CE106DF618	10UF STD 16V M FL TP5	C640	0CQ6821N509	0.0068U 100V K POLY TP
C527	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C642	0CE107DD618	100UF STD 10V M FL TP5
C528	0CE107DD618	100UF STD 10V M FL TP5	C644	181-442Z	PE,ECQ-B1H104KF3(TR)
C529	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C645	181-442Z	PE,ECQ-B1H104KF3(TR)
C532	0CE106DF618	10UF STD 16V M FL TP5	C646	0CQ6821N509	0.0068U 100V K POLY TP
C535	0CE106DF618	10UF STD 16V M FL TP5	C647	181-007G	MPE ECQ-V1H334JL3(TR), 50V 0.3
C540	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C648	181-064P	10UF 0 16V K
C541	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C649	181-064P	10UF 0 16V K
C542	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C658	181-007G	MPE ECQ-V1H334JL3(TR), 50V 0.3
C544	0CE107DD618	100UF STD 10V M FL TP5	C660	181-442Z	PE,ECQ-B1H104KF3(TR)
C547	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C661	181-442Z	PE,ECQ-B1H104KF3(TR)
C548	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C663	0CE107DH618	100UF STD 25V M FL TP5
C549	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C664	0CE107DH618	100UF STD 25V M FL TP5
C550	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C665	0CE107DH618	100UF STD 25V M FL TP5
C551	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C666	0CQ4721N509	0.0047U 100V K POLY TP
C552	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C668	0CE477DJ618	470UF STD 35V 20% FL TP 5
C555	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C670	0CK1030K945	0.01UF 50V Z F TR
C565	0CE106DF618	10UF STD 16V M FL TP5	C671	0CE108DK61A	1000UF STD 50V M FL TP7.5
C569	0CE106DF618	10UF STD 16V M FL TP5	C674	0CE107DF618	100UF STD 16V M FL TP5
C574	0CE107DD618	100UF STD 10V M FL TP5	C677	0CE107DF618	100UF STD 16V M FL TP5
C575	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C680	181-442Z	PE,ECQ-B1H104KF3(TR)
C577	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C681	181-442Z	PE,ECQ-B1H104KF3(TR)
C578	0CE106DF618	10UF STD 16V M FL TP5	C682	0CE107DH618	100UF STD 25V M FL TP5
C581	0CE106DF618	10UF STD 16V M FL TP5	C683	0CE107DH618	100UF STD 25V M FL TP5
C587	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C685	0CE107DH618	100UF STD 25V M FL TP5
C588	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C686	0CE106DK618	10UF STD 50V M FL TP5
C589	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C687	0CE106DF618	10UF STD 16V M FL TP5
C590	0CE474CK636	0.47UF SHL,SD 50V M FM5 BP(D)	C688	0CE108DK61A	1000UF STD 50V M FL TP7.5
C592	0CE107DD618	100UF STD 10V M FL TP5	C689	0CE228DJ650	2200UF STD 35V M FM7.5 BULK
C595	0CE227DD618	220UF STD 10V M FL TP5	C690	0CK1030K945	0.01UF 50V Z F TR
C597	0CE227DD618	220UF STD 10V M FL TP5	C691	0CE107DF618	100UF STD 16V M FL TP5
C600	0CE107DD618	100UF STD 10V M FL TP5	C692	0CE228DJ650	2200UF STD 35V M FM7.5 BULK
C607	0CE476DD618	47UF STD 10V 20% FL TP 5	C693	0CE107DH618	100UF STD 25V M FL TP5
C610	0CX5600K409	56P 50V J SL TA52	C694	0CE106DF618	10UF STD 16V M FL TP5
C611	0CE106DF618	10UF STD 16V M FL TP5	C695	0CE107DF618	100UF STD 16V M FL TP5
C616	0CE106DF618	10UF STD 16V M FL TP5	C697	0CE107DD618	100UF STD 10V M FL TP5
C617	0CE106DF618	10UF STD 16V M FL TP5	C699	0CQ1031N509	0.01U 100V K POLY TP
C619	0CE107DD618	100UF STD 10V M FL TP5	C701	0CE476DD618	47UF STD 10V 20% FL TP 5
C621	0CE106DF618	10UF STD 16V M FL TP5	C708	0CE106DF618	10UF STD 16V M FL TP5
C622	0CE227DF618	220UF STD 16V M FL TP5	C714	0CQ1041N455	0.1000UF 100V J PP NI FM7.5
C623	0CE107BJ618	100UF KME 35V M FL TP5	C715	181-442Z	PE,ECQ-B1H104KF3(TR)
C627	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.4	C716	0CE106DF618	10UF STD 16V M FL TP5

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LOCA. NO	PART NO	DESCRIPTION
C718	OCE107DF618	100UF STD 16V M FL TP5
C720	OCE476DF618	47UF STD 16V M FL TP5
C724	0CQ1031N509	0.01U 100V K POLY TP
C725	181-007F	MPE ECQ-V1H224JL3(TR), 50V 0.2
C729	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C730	OCE106DF618	10UF STD 16V M FL TP5
C738	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R
C741	OCE476DF618	47UF STD 16V M FL TP5
C746	OCE476DF618	47UF STD 16V M FL TP5
C749	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C753	OCE476DF618	47UF STD 16V M FL TP5
C755	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R
C758	OCE476DF618	47UF STD 16V M FL TP5
C761	OCE476DK618	47UF STD 50V M FL TP5
C764	OCE227DF618	220UF STD 16V M FL TP5
C767	OCE107DF618	100UF STD 16V M FL TP5
C771	OCE107DD618	100UF STD 10V M FL TP5
$\triangle$ C801	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)
$\triangle$ C802	181-091K	DEHR33D561KN3A DE0907-486 R 56
C804	OCE227BJ618	220U KME 35V M FL TP5
C806	181-091D	DEHR33A102KN2A DE0905-979 R 1
$\triangle$ C807	181-091D	DEHR33A102KN2A DE0905-979 R 1
C808	0CN1020K519	1000P 50V K B TA52
C809	OCE106BN618	10UF KME 100V M FL TP5
C810	OCE477BH618	470UF KME TYPE 25V 20% FL TP 5
C811	OCK1020K515	1000P 50V K B TS
C812	181-011D	PP 1600V 0.0022UF J
C813	181-091C	DEHR33A471KN2A DE0705-979 R 4
C814	181-091C	DEHR33A471KN2A DE0705-979 R 4
C815	181-091C	DEHR33A471KN2A DE0705-979 R 4
C816	OCE2276Q650	220UF SMS 200V M FM7.5 BULK
C817	181-001A	CE 200V 470UF M LUG (85)
C818	181-091C	DEHR33A471KN2A DE0705-979 R 4
C819	OCK1020W515	1000P 500V K B TS
C820	OCK1020W515	1000P 500V K B TS
C821	OCK1020W515	1000P 500V K B TS
C822	OCK1020W515	1000P 500V K B TS
C826	181-120N	1000PF 4KV M E FMTW LEAD4.5
C827	0CQ1041N509	0.1U 100V K POLY TP
C828	OCE476DN618	47UF STD 100V 20% FL TP 5
C829	181-091C	DEHR33A471KN2A DE0705-979 R 4
C830	OCE107DF618	100UF STD 16V M FL TP5
$\triangle$ C833	181-120N	1000PF 4KV M E FMTW LEAD4.5
$\triangle$ C834	181-001U	CE 450V 470UF M LUG(85)
C841	OCE228DK650	2200UF STD 50V M FM7.5 BULK
C842	OCE477DK618	470UF STD 50V 20% FL TP 5
C844	OCE477DD618	470UF STD 10V M FL TP5
C845	OCE337DH618	330UF STD 25V M FL TP5
C852	OCE108DF618	1000UF STD 16V M FL TP5
C853	OCE108DF618	1000UF STD 16V M FL TP5
C870	OCE108DH618	1000UF STD 25V M FL TP5
$\triangle$ C888	0CQZVBK002D	A.C 275V 0.47UF K (S=22.5)

LOCA. NO	PART NO	DESCRIPTION
$\triangle$ C889	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C900	OCE475BR618	4.7UF KME TYPE 250V 20% FL TP
C901	OCE475BR618	4.7UF KME TYPE 250V 20% FL TP
C902	OCE475DR618	4.7UF STD 250V 20% FL TP 5
C903	0CC0500K115	5P 50V D NPO TS
C904	OCE475BR618	4.7UF KME TYPE 250V 20% FL TP
C905	0CK5610W515	560P 500V K B TS
C906	0CN1040K949	0.1M 50V Z F TA52
C907	0CN1040K949	0.1M 50V Z F TA52
C908	OCE475DR618	4.7UF STD 250V 20% FL TP 5
C910	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C911	0CN1040K949	0.1M 50V Z F TA52
C912	0CN1040K949	0.1M 50V Z F TA52
C914	OCE228DF618	2200UF STD 16V M FL TP5
C915	0CK5610W515	560P 500V K B TS
C916	165-004A	AG20PT 152F-L3N/S-23
C917	0CN1040K949	0.1M 50V Z F TA52
C918	0CC0500K115	5P 50V D NPO TS
C919	0CK5610W515	560P 500V K B TS
C925	0CN1040K949	0.1M 50V Z F TA52
C926	0CK1030W510	0.01U 500V K B S
C1101	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C1103	OCE107DD618	100UF STD 10V M FL TP5
C1105	OCE226DF618	22UF STD 16V M FL TP5
C1106	0CN1030F679	10000P 16V M Y TA52
C1110	OCE476DF618	47UF STD 16V M FL TP5
C1112	181-442Z	PE,ECQ-B1H104KF3(TR)
C1114	OCE107DD618	100UF STD 10V M FL TP5
C1203	0CN2210K519	220P 50V K B TA52
C1204	0CN1040K949	0.1M 50V Z F TA52
C1205	0CN2210K519	220P 50V K B TA52
C1206	0CN4710K519	470P 50V K B TA52
C1207	0CN4710K519	470P 50V K B TA52
C1208	0CN2210K519	220P 50V K B TA52
C1209	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C1210	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C1211	0CN2210K519	220P 50V K B TA52
C1212	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C1213	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C1251	OCE105DK618	1UF STD 50V M FL TP5
C1252	OCE105DK618	1UF STD 50V M FL TP5
C1253	OCE684DK618	0.68UF STD 50V 20% FL TP 5
C1254	OCE225DK618	2.2UF STD 50V 20% FL TP 5
C1255	OCE105DK618	1UF STD 50V M FL TP5
C1256	0CN1010K519	100P 50V K B TA52
C1257	0CN1030F679	10000P 16V M Y TA52
C1258	OCE476DD618	47UF STD 10V 20% FL TP 5
C2903	OCE106DH618	10UF STD 25V M FL TP5
C2909	OCE106DH618	10UF STD 25V M FL TP5
C2910	0CN1010K519	100P 50V K B TA52
C2911	0CN1010K519	100P 50V K B TA52
C2912	0CK4720W510	4700P 500V K B S

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LOCA. NO	PART NO	DESCRIPTION
C2913	OCK4720W510	4700P 500V K B S
C2914	OCE106DP618	10UF STD 160V M FL TP5
C2915	OCE107DK618	100UF STD 50V M FL TP5
C2917	OCE107DF618	100UF STD 16V M FL TP5
C2918	OCE107DF618	100UF STD 16V M FL TP5
C2919	OCE106DP618	10UF STD 160V M FL TP5
C2922	OCE106DH618	10UF STD 25V M FL TP5
C2933	OCK1010W515	100P 500V K B TS
SG904	181-033T	2KV B 222K TP7.5

### FUSE

$\triangle$ F1101	131-098B	FUSE,SLOW BLOW 4000MA 250V 5.2X20
$\triangle$ FR849	OFF4001A234	FUSE,FAST BLOE 4000MA 125V 2.5X7.6
$\triangle$ FR851	OFF4001A234	FUSE,FAST BLOE 4000MA 125V 2.5X7.6
$\triangle$ FR852	OFF4001A234	FUSE,FAST BLOE 4000MA 125V 2.5X7.6

### COIL & TRANSFORMER

J22	OLA0102K119	INDUCTOR,10UH K
J25	OLA0102K119	INDUCTOR,10UH K
J35	OLA0102K119	INDUCTOR,10UH K
J40	OLA0102K119	INDUCTOR,10UH K
J43	OLA0102K119	INDUCTOR,10UH K
J55	OLA0102K119	INDUCTOR,10UH K
J117	OLA0102K119	INDUCTOR,10UH K
L12	OLA0102K139	INDUCTOR,10UH K
L13	OLA0102K119	INDUCTOR,10UH K
L032	OLA0102K119	INDUCTOR,10UH K
L101	OLA0102K119	INDUCTOR,10UH K
L102	OLA0102K119	INDUCTOR,10UH K
L201	OLA0102K119	INDUCTOR,10UH K
L202	OLA0102K119	INDUCTOR,10UH K
L203	OLA0102K119	INDUCTOR,10UH K
L204	OLA0102K119	INDUCTOR,10UH K
L205	OLA0102K119	INDUCTOR,10UH K
L206	OLA0102K119	INDUCTOR,10UH K
L207	OLA0102K119	INDUCTOR,10UH K
L208	OLA0102K119	INDUCTOR,10UH K
L209	OLA0102K119	INDUCTOR,10UH K
L210	OLA0102K119	INDUCTOR,10UH K
L211	OLA0102K119	INDUCTOR,10UH K
L212	OLA0102K119	INDUCTOR,10UH K
L217	OLA0102K119	INDUCTOR,10UH K
L218	OLA0102K119	INDUCTOR,10UH K
L219	OLA0102K119	INDUCTOR,10UH K
L220	OLA0102K119	INDUCTOR,10UH K
L221	OLA0102K119	INDUCTOR,10UH K
L222	OLA0102K119	INDUCTOR,10UH K
L224	OLA0331K119	INDUCTOR,3.3UH K
L225	OLA0331K119	INDUCTOR,3.3UH K
L226	OLA0331K119	INDUCTOR,3.3UH K
L227	OLA0331K119	INDUCTOR,3.3UH K
L401	150-L02Q	COIL,LINEARITY 10UH

LOCA. NO	PART NO	DESCRIPTION
L402	150-W01A	COIL,CHOKE WIDTH 24UH
L403	150-C13B	COIL,CHOKE 52UH
L404	150-C13B	COIL,CHOKE 52UH
L407	150-717K	COIL,CHOKE 1.1UH
L410	OLA1001K130	INDUCTOR,1000M K
L501	OLA0102K119	INDUCTOR,10UH K
L502	OLA0102K119	INDUCTOR,10UH K
L601	OLA0102K119	INDUCTOR,10UH K
L606	OLA0102K119	INDUCTOR,10UH K
L608	OLA0102K119	INDUCTOR,10UH K
L610	OLA0102K119	INDUCTOR,10UH K
L701	OLA0102K119	INDUCTOR,10UH K
L702	OLA0102K119	INDUCTOR,10UH K
L703	OLA0102K119	INDUCTOR,10UH K
L704	OLA0102K119	INDUCTOR,10UH K
L705	OLA0102K119	INDUCTOR,10UH K
L801	150-C02F	COIL,CHOKE 82UH R1217
L802	150-C02F	COIL,CHOKE 82UH R1217
L901	OLA0272K139	INDUCTOR,27UH K
L1101	OLA0102K119	INDUCTOR,10UH K
L1201	OLA0472K119	INDUCTOR,47UH K
L1202	OLA0472K119	INDUCTOR,47UH K
L1203	OLA0472K119	INDUCTOR,47UH K
L1204	OLA0472K119	INDUCTOR,47UH K
L1251	OLA0102K119	INDUCTOR,10UH K
R273	OLA0102K119	INDUCTOR,10UH K
$\triangle$ T401	6170VC0002A	TRANSFORMER,H-DRIVE EER-2619
$\triangle$ T402	6174Z-6005S	FBT,FTMPC31 -T6005S
T403	151-E06A	TRANSFORMER,EER2834 0UH
$\triangle$ T803	6170VMCA01Y	TRANSFORMER,SMPS EER5345 400UH
$\triangle$ T804	151-D02G	TRANSFORMER,STAND-BY EER3541 0UH
T890	6170VZ0008A	TRANSFORMER,TS4841 30500UH

### CONNECTOR

P001	366-173G	CONNECTOR (CIRC),2.5MM 8*2P AEPH-254
P1	366-932B	CONNECTOR (CIRC),2.5MM 3P
P002	366-173J	CONNECTOR (CIRC),2.5MM 10*2P AEPH-254
P4A	366-932D	CONNECTOR (CIRC),2.5MM 5P
P4B	387-A05A	CONNECTOR ASSY,5P (L=100)
P6A	366-932D	CONNECTOR (CIRC),2.5MM 5P
P6B	387-A05C	CONNECTOR ASSY,5P (L=200)
P7	366-921F	CONNECTOR (CIRC),2.5MM 7P
P101	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P101B	387-B10J	CONNECTOR ASSY,10P(L=500) SHIELD
P401B	366-942L	CONNECTOR (CIRC),2.5MM 12P BW250
P401A	387-812L	CONNECTOR ASSY,YJN250 12P
P402	366-043K	CONNECTOR (CIRC),PLUG(4P)
P601B	366-921L	CONNECTOR (CIRC),2.5MM 12P
P601A	366-932B	CONNECTOR (CIRC),2.5MM 3P
P601A	387-J12J	CONNECTOR ASSY,12P SHIELD(500)
P602A	366-932C	CONNECTOR (CIRC),2.5MM 4P
P602A	387-B04J	CONNECTOR ASSY,4P SHIELD WIRE (L=500)

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	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
P604A	366-932C	CONNECTOR (CIRC),2.5MM 4P
P801B	366-942L	CONNECTOR (CIRC),2.5MM 12P BW250
P801A	387-812L	CONNECTOR ASSY,YJN250 12P
P901B	366-921L	CONNECTOR (CIRC),2.5MM 12P
P902A	366-921J	CONNECTOR (CIRC),2.5MM 10P
P902B	387-A10G	CONNECTOR ASSY,10P (L=400)
P1005	366-932E	CONNECTOR (CIRC),2.5MM 6P
P1101	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P1102A	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P1102B	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P1103A	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P1103B	366-009D	CONNECTOR (CIRC),2.36PAI 1P
P1103	6631V23001J	CONNECTOR ASSY,2P 250MM 10MM
P1104	366-932B	CONNECTOR,2.5MM 3P
P1151	387-G07D	CONNECTOR ASSY,7P GIL-G TO GIL-G(250)
VGA01	6630VGA001B	CONNECTOR,D-SUB 68114-1522 15PIN 2.2

### RESISTOR

FR359	0RF0680K607	0.68 OHM 2 W 5.00% TA62
FR360	0RF0680K607	0.68 OHM 2 W 5.00% TA62
FR442	0RF0331K607	3.3 OHM 2 W 5.00% TA62
FR443	0RF0101K607	1 OHM 2 W 5.00% TA62
FR448	0RF0470K607	0.47 OHM 2 W 5.00% TA62
FR829	0RS6801K607	6.8K OHM 2 W 5.00% TA62
$\Delta$ FR848	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
FR2948	0RF1000H609	100 OHM 1/2 W 5.00% TA52
J27	0RD3300F609	330 OHM 1/6 W 5.00% TA52
J46	0RD1000F609	100 OHM 1/6 W 5.00% TA52
J47	0RD1000F609	100 OHM 1/6 W 5.00% TA52
J62	0RD1001F609	1K OHM 1/6 W 5.00% TA52
J133	0RD1000F609	100 OHM 1/6 W 5.00% TA52
J209	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
J215	0RD1000F609	100 OHM 1/6 W 5.00% TA52
J223	0RD1000F609	100 OHM 1/6 W 5.00% TA52
J429	0RD1501F609	1.5K OHM 1/6 W 5.00% TA52
J453	0RD0222F609	22 OHM 1/6 W 5.00% TA52
L301	0RD1000F609	100 OHM 1/6 W 5.00% TA52
L302	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R1	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R3	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R4	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R5	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R6	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R7	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R8	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R9	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R10	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R13	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R14	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R16	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R17	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R19	0RD1000F609	100 OHM 1/6 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R20	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R21	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R22	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R27	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R28	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R30	0RD2701F609	2.7K OHM 1/6 W 5.00% TA52
R32	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R34	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R36	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R40	0RD2701F609	2.7K OHM 1/6 W 5.00% TA52
R94	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R97	0RD1202F609	12K OHM 1/6 W 5.00% TA52
R99	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R100	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R104	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R105	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R107	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R121	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R122	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R124	0RS0121K607	1.2 OHM 2 W 5.00% TA62
R125	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R127	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R128	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R129	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R132	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R133	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R142	0RD3901F609	3.9K OHM 1/6 W 5.00% TA52
R151	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R162	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R172	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R173	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R193	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R197	0RD0472H609	47 OHM 1/2 W 5.00% TA52
R229	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R230	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R231	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R232	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R233	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R234	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R235	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R236	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R237	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R238	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R239	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R240	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R241	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R242	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R243	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R244	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R245	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R248	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R249	0RD1000F609	100 OHM 1/6 W 5.00% TA52

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	CE : Electrolytic	RN : Metal Film
		RF : Fusible

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R250	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R407	ORS1001J607	1K OHM 1 W 5.00% TA62
R253	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52	R408	ORD1501F609	1.5K OHM 1/6 W 5.00% TA52
R255	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52	R410	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R256	ORD5602F609	56K OHM 1/6 W 5.00% TA52	R413	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R261	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R414	ORD3602F609	36K OHM 1/6 W 5.00% TA52
R262	ORD1001F609	1K OHM 1/6 W 5.00% TA52	R415	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R263	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R416	ORD4702F609	47K OHM 1/6 W 5.00% TA52
R264	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R417	ORD4700F609	470 OHM 1/6 W 5.00% TA52
R265	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R418	ORD2701H609	2.7K OHM 1/2 W 5.00% TA52
R266	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R419	ORD1501F609	1.5K OHM 1/6 W 5.00% TA52
R267	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R420	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R268	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R421	ORD0221F609	2.2 OHM 1/6 W 5.00% TA52
R269	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R422	ORD1001H609	1K OHM 1/2 W 5.00% TA52
R270	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R423	ORD2001H609	2K OHM 1/2 W 5.00% TA52
R279	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R424	ORS0561K607	5.6 OHM 2 W 5.00% TA62
R288	ORD1000F609	100 OHM 1/6 W 5.00% TA52	R426	ORD2400H609	240 OHM 1/2 W 5.00% TA52
R292	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52	R429	ORS4701H609	4.7K OHM 1/2 W 5.00% TA52
R311	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R431	ORS1500H609	150 OHM 1/2 W 5.00% TA52
R312	ORD8202F609	82K OHM 1/6 W 5.00% TA52	R438	ORS3302H609	33K OHM 1/2 W 5.00% TA52
R313	ORD1802F609	18K OHM 1/6 W 5.00% TA52	R439	ORS3901H609	3.9K OHM 1/2 W 5.00% TA52
R314	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52	R445	ORF0222H609	22 OHM 1/2 W 5.00% TA52
R318	ORS0101H609	1 OHM 1/2 W 5.00% TA52	R446	ORS3302H609	33K OHM 1/2 W 5.00% TA52
R324	ORD5100F609	510 OHM 1/6 W 5.00% TA52	R447	ORD3003F609	300K OHM 1/6 W 5.00% TA52
R325	ORN3301F409	3.3K OHM 1/6 W 1.00% TA52	R450	ORS0221H609	2.2 OHM 1/2 W 5.00% TA52
R326	ORN5601F409	5.6K OHM 1/6 W 1.00% TA52	R451	180-C02M	5.6K OHM 1/2 W 10% TA52 ERC12G
R327	ORN5601F409	5.6K OHM 1/6 W 1.00% TA52	R490	180-B01M	RS RECT S 5W 7.5K J DOUBLE
R328	ORS2200K607	220 OHM 2 W 5.00% TA62	R601	ORD3901F609	3.9K OHM 1/6 W 5.00% TA52
R329	ORN0301J607	3 OHM 1 W 5.00% TA62	R602	ORD3901F609	3.9K OHM 1/6 W 5.00% TA52
R330	ORN0301J607	3 OHM 1 W 5.00% TA62	R604	ORD3901F609	3.9K OHM 1/6 W 5.00% TA52
R332	ORN3301F409	3.3K OHM 1/6 W 1.00% TA52	R607	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R340	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R608	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R341	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R611	ORD3901F609	3.9K OHM 1/6 W 5.00% TA52
R342	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R612	ORD3901F609	3.9K OHM 1/6 W 5.00% TA52
R343	ORD2702F609	27K OHM 1/6 W 5.00% TA52	R616	ORD0102F609	10 OHM 1/6 W 5.00% TA52
R345	ORD2200F609	220 OHM 1/6 W 5.00% TA52	R622	ORD0331F609	3.3 OHM 1/6 W 5.00% TA52
R346	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R623	ORD0331F609	3.3 OHM 1/6 W 5.00% TA52
R347	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R630	ORD5600F609	560 OHM 1/6 W 5.00% TA52
R348	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52	R631	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R349	ORD2701F609	2.7K OHM 1/6 W 5.00% TA52	R633	ORD0331F609	3.3 OHM 1/6 W 5.00% TA52
R350	ORD6801H609	6.8K OHM 1/2 W 5.00% TA52	R650	ORD0331F609	3.3 OHM 1/6 W 5.00% TA52
R351	ORD1502H609	15K OHM 1/2 W 5.00% TA52	R651	ORD0331F609	3.3 OHM 1/6 W 5.00% TA52
R352	ORD6200H609	620 OHM 1/2 W 5.00% TA52	R654	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R353	ORD5100H609	510 OHM 1/2 W 5.00% TA52	R655	ORD4700H609	470 OHM 1/2 W 5.00% TA52
R355	ORF0561H609	5.6 OHM 1/2 W 5.00% TA52	R656	ORD4700H609	470 OHM 1/2 W 5.00% TA52
R356	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52	R657	ORD3000F609	300 OHM 1/6 W 5.00% TA52
R358	ORS2202K607	22K OHM 2 W 5.00% TA62	R658	ORD3000F609	300 OHM 1/6 W 5.00% TA52
R359	ORS2202K607	22K OHM 2 W 5.00% TA62	R659	ORD2002F609	20K OHM 1/6 W 5.00% TA52
R368	ORS2202K607	22K OHM 2 W 5.00% TA62	R660	ORD2002F609	20K OHM 1/6 W 5.00% TA52
R401	ORD1002F609	10K OHM 1/6 W 5.00% TA52	R662	ORD1601F609	1.6K OHM 1/6 W 5.00% TA52
R404	ORS4701K607	4.7K OHM 2 W 5.00% TA62	R663	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R405	180-A01B	RW ROUND G 2W 0.11 K TA31(63)	R674	ORD3900F609	390 OHM 1/6 W 5.00% TA52
R406	ORS0561K607	5.6 OHM 2 W 5.00% TA62	R675	ORD3900F609	390 OHM 1/6 W 5.00% TA52

The components identified by mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

For Capacitor & Resistors,	CC, CX, CK, CN : Ceramic	RD : Carbon Film
the characters at 2nd and 3rd digit in the P/No. means as follows;	CQ : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R676	ORD3302F609	33K OHM 1/6 W 5.00% TA52
R677	ORD0102F609	10 OHM 1/6 W 5.00% TA52
R678	ORD0271F609	2.7 OHM 1/6 W 5.00% TA52
R680	ORD0271F609	2.7 OHM 1/6 W 5.00% TA52
R701	ORN5602F409	56K OHM 1/6 W 1.00% TA52
R702	ORN1802F409	18K OHM 1/6 W 1.00% TA52
R716	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R717	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R742	ORN2202F409	22K OHM 1/6 W 1.00% TA52
R756	ORN1002F409	10K OHM 1/6 W 1.00% TA52
R801	ORS2002K607	20K OHM 2 W 5.00% TA62
$\triangle$ R802	180-822M	RWR 15W 1.0 OHM J PD
R803	ORD1802H609	18K OHM 1/2 W 5.00% TA52
R804	ORS0152K607	15 OHM 2 W 5.00% TA62
R805	ORD5100F609	510 OHM 1/6 W 5.00% TA52
R806	ORD2001F609	2K OHM 1/6 W 5.00% TA52
R807	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R808	180-A01D	RW ROUND G 2W 0.16 J TA31(63)
$\triangle$ R809	ORKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R810	ORD7501F609	7.5K OHM 1/6 W 5.00% TA52
R811	180-A01R	RW ROUND G 2W 0.39 J TA31(63)
R813	ORS1002K607	10K OHM 2 W 5.00% TA62
R814	ORD3002H609	30K OHM 1/2 W 5.00% TA52
R815	ORD1202F609	12K OHM 1/6 W 5.00% TA52
R816	ORS0102K607	10 OHM 2 W 5.00% TA62
$\triangle$ R824	ORKZVTA001C	8.2M OHM 1/2 W 5% TA52 UL PILK
R825	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R831	ORD2001F609	2K OHM 1/6 W 5.00% TA52
R835	ORD5100F609	510 OHM 1/6 W 5.00% TA52
R838	ORD2001F609	2K OHM 1/6 W 5.00% TA52
R840	ORD0680H609	0.68 OHM 1/2 W 5.00% TA52
R841	ORD0680H609	0.68 OHM 1/2 W 5.00% TA52
R842	ORD4701H609	4.7K OHM 1/2 W 5.00% TA52
R843	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R844	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R845	ORD1502H609	15K OHM 1/2 W 5.00% TA52
R849	ORS0182K607	18 OHM 2 W 5.00% TA62
R856	ORD1502F609	15K OHM 1/6 W 5.00% TA52
R857	ORS2002K607	20K OHM 2 W 5.00% TA62
R860	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R861	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R862	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R902	ORD4702F609	47K OHM 1/6 W 5.00% TA52
R903	ORS4702K607	47K OHM 2 W 5.00% TA62
R905	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R906	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R907	ORS4702K607	47K OHM 2 W 5.00% TA62
R908	ORS4700H609	470 OHM 1/2 W 5.00% TA52
R909	ORN3302F409	33K OHM 1/6 W 1.00% TA52
R910	ORF0101K607	1 OHM 2 W 5.00% TA62
R911	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R912	ORN5601F409	5.6K OHM 1/6 W 1.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R914	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R915	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R916	ORKZVTA001L	1.0M OHM 1/2 W 5% TA52 UL PILK
R917	ORD1803H609	180K OHM 1/2 W 5.00% TA52
R918	ORS4702K607	47K OHM 2 W 5.00% TA62
R921	ORN3001F409	3K OHM 1/6 W 1.00% TA52
R929	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R930	ORS4700H609	470 OHM 1/2 W 5.00% TA52
R938	ORS4700H609	470 OHM 1/2 W 5.00% TA52
R946	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R947	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R1101	ORD1501F609	1.5K OHM 1/6 W 5.00% TA52
R1102	ORD4702F609	47K OHM 1/6 W 5.00% TA52
R1103	ORD3300F609	330 OHM 1/6 W 5.00% TA52
R1104	ORD0102F609	10 OHM 1/6 W 5.00% TA52
R1105	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1106	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1107	ORS0182H609	18 OHM 1/2 W 5.00% TA52
R1108	ORD2002F609	20K OHM 1/6 W 5.00% TA52
R1109	ORD1003F609	100K OHM 1/6 W 5.00% TA52
R1110	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1111	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R1112	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1113	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1114	ORD3003F609	300K OHM 1/6 W 5.00% TA52
R1115	ORS0122H609	12 OHM 1/2 W 5.00% TA52
R1116	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R1117	ORD4701F609	4.7K OHM 1/6 W 5.00% TA52
R1118	ORD3900F609	390 OHM 1/6 W 5.00% TA52
R1151	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1152	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1153	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1154	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1155	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1156	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R1204	ORD2403F609	240K OHM 1/6 W 5.00% TA52
R1206	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R1208	ORD2403F609	240K OHM 1/6 W 5.00% TA52
R1212	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R1251	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R1252	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R1253	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R1254	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R1255	ORD1001F609	1K OHM 1/6 W 5.00% TA52
R1292	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R2906	ORD1500F609	150 OHM 1/6 W 5.00% TA52
R2907	ORD1600F609	160 OHM 1/6 W 5.00% TA52
R2908	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R2909	ORD1500F609	150 OHM 1/6 W 5.00% TA52
R2910	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R2911	ORD5601F609	5.6K OHM 1/6 W 5.00% TA52
R2912	ORD3001F609	3K OHM 1/6 W 5.00% TA52

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CO : Polyester CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible
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The components identified by mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION
R2921	ORD3000H609	300 OHM 1/2 W 5.00% TA52
R2922	ORD3000H609	300 OHM 1/2 W 5.00% TA52
R2928	ORD0102F609	10 OHM 1/6 W 5.00% TA52
R2929	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R2930	ORD0102F609	10 OHM 1/6 W 5.00% TA52
R2931	ORD1000F609	100 OHM 1/6 W 5.00% TA52
R2932	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R2933	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R2934	0RF0102J607	10 OHM 1 W 5.00% TA62
R2935	ORD1202H609	12K OHM 1/2 W 5.00% TA52
R2936	ORD2001H609	2K OHM 1/2 W 5.00% TA52
R2937	ORD5602H609	56K OHM 1/2 W 5.00% TA52
R2938	ORD5602H609	56K OHM 1/2 W 5.00% TA52
R2939	ORD1201H609	1.2K OHM 1/2 W 5.00% TA52
R2940	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R2941	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R2942	ORD0391H609	3.9 OHM 1/2 W 5.00% TA52
R2943	ORD0472H609	47 OHM 1/2 W 5.00% TA52
R2944	ORD0391H609	3.9 OHM 1/2 W 5.00% TA52
R2945	ORD0472H609	47 OHM 1/2 W 5.00% TA52
R2946	ORS8200J607	820 OHM 1 W 5.00% TA62
R2947	ORS8200J607	820 OHM 1 W 5.00% TA62
R2955	ORD2202H609	22K OHM 1/2 W 5.00% TA52
R2959	ORD5101F609	5.1K OHM 1/6 W 5.00% TA52
R2990	ORD0222F609	22 OHM 1/6 W 5.00% TA52

### SPARK GAP

FB901	6918VAX002A	SPARK GAP,SSA-351N-A1 350V 30% 5MM
SG401	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23
SG901	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23
SG902	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23
SG903	165-004A	SPARK GAP,AG20PT 152F-L3N/S-23

### SWITCH

$\triangle$ SW1101	140-289A	SWITCH,PUSH POWER SDDF3PASP013
SW1151	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1152	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1153	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1154	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1155	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1156	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1157	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SW1158	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON

### FILTER & CRYSTAL

F501	166-F01G	FILTER,EMC DSS6NZ82A103Q93A
F503	166-F01G	FILTER,EMC DSS6NZ82A103Q93A
F506	166-F01G	FILTER,EMC DSS6NZ82A103Q93A
F701	166-F01G	FILTER,EMC DSS6NZ82A103Q93A
F704	166-F01G	FILTER,EMC DSS6NZ82A103Q93A
FB301	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB403	125-022K	FILTER,EMC FERRITE 1UH TAPING

LOCA. NO	PART NO	DESCRIPTION
FB802	125-123A	FILTER,EMC FERRITE BFD3565R2F
FB803	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB804	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB805	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB806	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB902	125-022K	FILTER,EMC FERRITE 1UH TAPING
FB2901	125-123A	FILTER,EMC FERRITE BFD3565R2F
FL501	6200VKR001C	FILTER,BAND PASS LPF 2EA
FL701	6200VKR001B	FILTER,BAND PASS LPF 2EA SMD
FL702	6200VKR001A	FILTER,BAND PASS LPF 1EA SMD
FL703	6200VKR001A	FILTER,BAND PASS LPF 1EA SMD
J42	125-022K	FILTER,EMC FERRITE 1UH
L11	125-022K	FILTER,EMC FERRITE 1UH
L033	125-022K	FILTER,EMC FERRITE 1UH
L213	125-123A	FILTER,EMC FERRITE BFD3565R2F
L602	125-022K	FILTER,EMC FERRITE 1UH
L603	125-022K	FILTER,EMC FERRITE 1UH
L650	125-022K	FILTER,EMC FERRITE 1UH
T801	150-F06U	FILTER,EMC SQE3535 27.5MH 0.6PHY 70TURN
X01	156-A01L	RESONATOR,CRYSTAL HC49U SUNNY RADIAL 6.000MHZ
X501	6202VDB007B	RESONATOR,CRYSTAL HC49U SUNNY RADIAL 20.250MHZ
X601	156-A02M	RESONATOR,CRYSTAL HC49U KJE RADIAL 18.432MHZ
X701	156-A02U	RESONATOR,CRYSTAL HC49U KJE RADIAL 27.000MHZ
X702	166-E02E	RESONATOR,CRYSTAL CSBLA500KECF02-B0 CSB500F2
Z101	166-F01G	FILTER,DSS6NZ82A103Q93A DSS306-93FZ10
Z102	166-F01G	FILTER,DSS6NZ82A103Q93A DSS306-93FZ10
Z104	166-F01G	FILTER,DSS6NZ82A103Q93A DSS306-93FZ10
Z105	166-F01G	FILTER,DSS6NZ82A103Q93A DSS306-93FZ10
Z106	166-C06B	FILTER,MKTGA41M4AAHP00A03 MKT41.4MA11
Z107	166-F01G	FILTER,DSS6NZ82A103Q93A DSS306-93FZ10

### ACCESSORIES

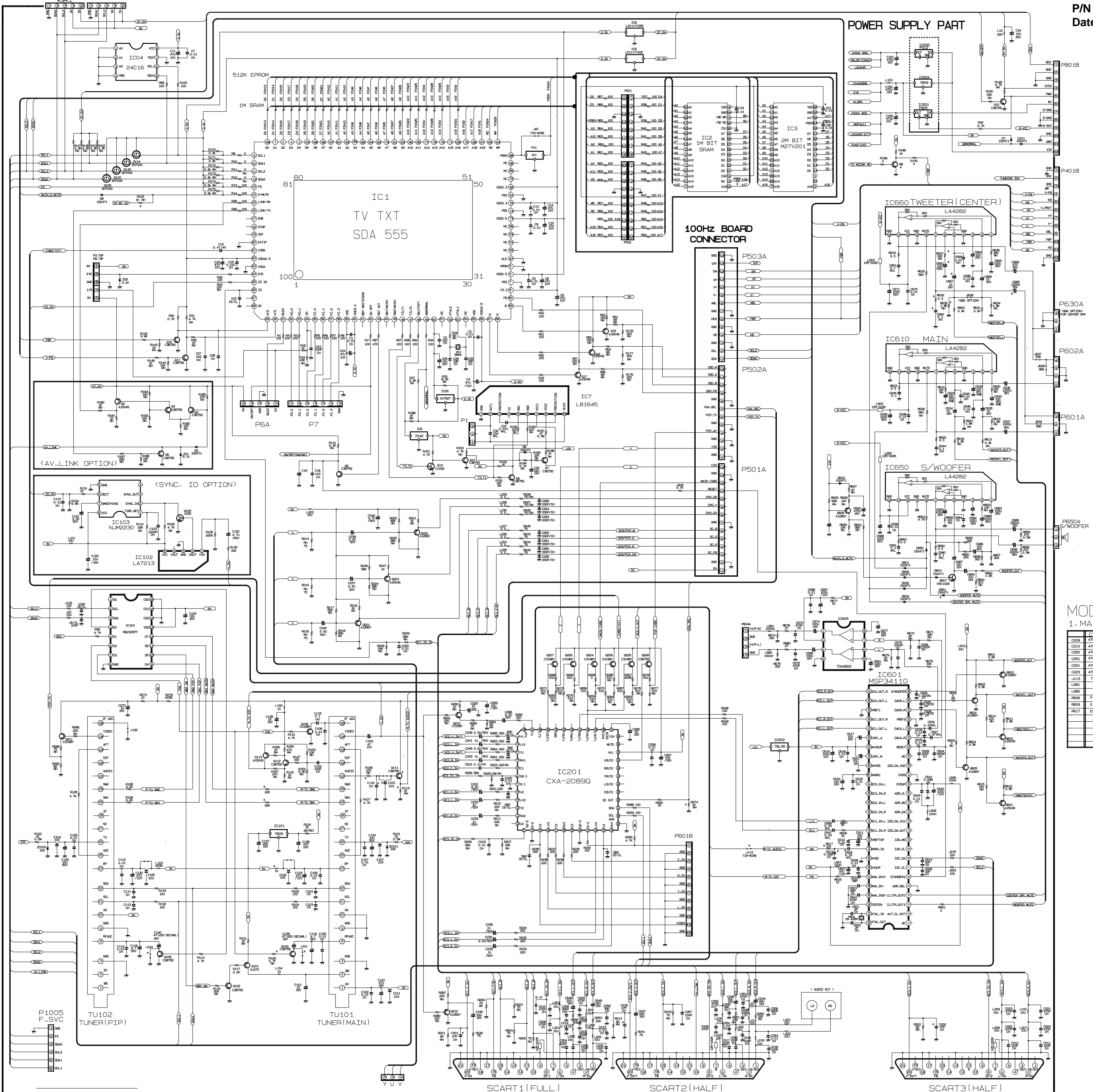
A1	3828VA0231T	MANUAL,OWNERS ES LG SP/PO 049G TX 016
A2	6710V00049G	REMOTE CONTROLLER MC006A
A2	6710V00067F	REMOTE CONTROLLER MC006A,W/EYE ITALY

### MISCELLANEOUS

JA1	6613V00004A	JACK ASSY,PJ6054A EARPHONE+S-VHS+3P
$\triangle$ RL801	6920VB1001B	RELAY,LK1AF-12V MATSUSHITA 12V 4.41E
RL802	141-018F	RELAY,DG5D1-0-2 DAIICHI 5V 0.000106A
$\triangle$ SK900	6620VBD002A	SOCKET,CPT PCS029A 9PIN 14/360
PA1101	6726VV0006J	REMOTE CONTROLLER RECEIVER 38KHZ
PJ201	6612VMH002A	JACK,SCART PMJ020A 2X21 PIN ABO
PJ202	6613V00011A	JACK ASSY PMJ018A 21P SCART+A/
$\triangle$ TH801	163-054F	THERMISTOR,PTC J502P84D140M290Q
TU101	6700VPF012A	TUNER,TAUC-M130D
TU102	6700VPF012B	TUNER,TAFC-M130P
VA802	164-003K	VARISTOR,SVC621D-14A 620V 0% UL/C
ZN1101	164-003K	VARISTOR,SVC621D-14A 620V 0% UL/C

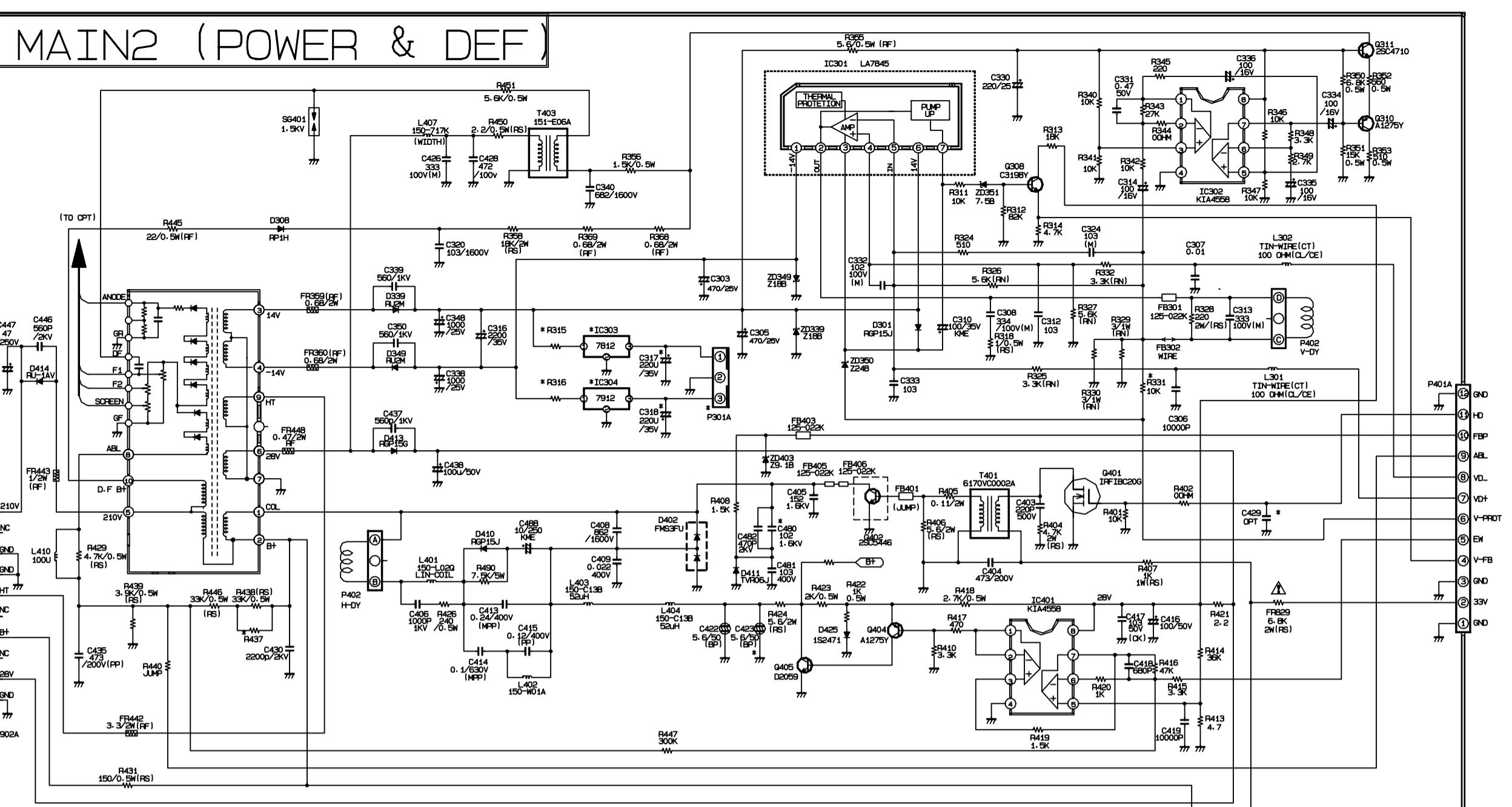
# CIRCUIT DIAGRAM FOR MC-006A CHASSIS MAIN1

P/N : 3854VA0075A-S1(1/2)  
Date : 2001.02.01

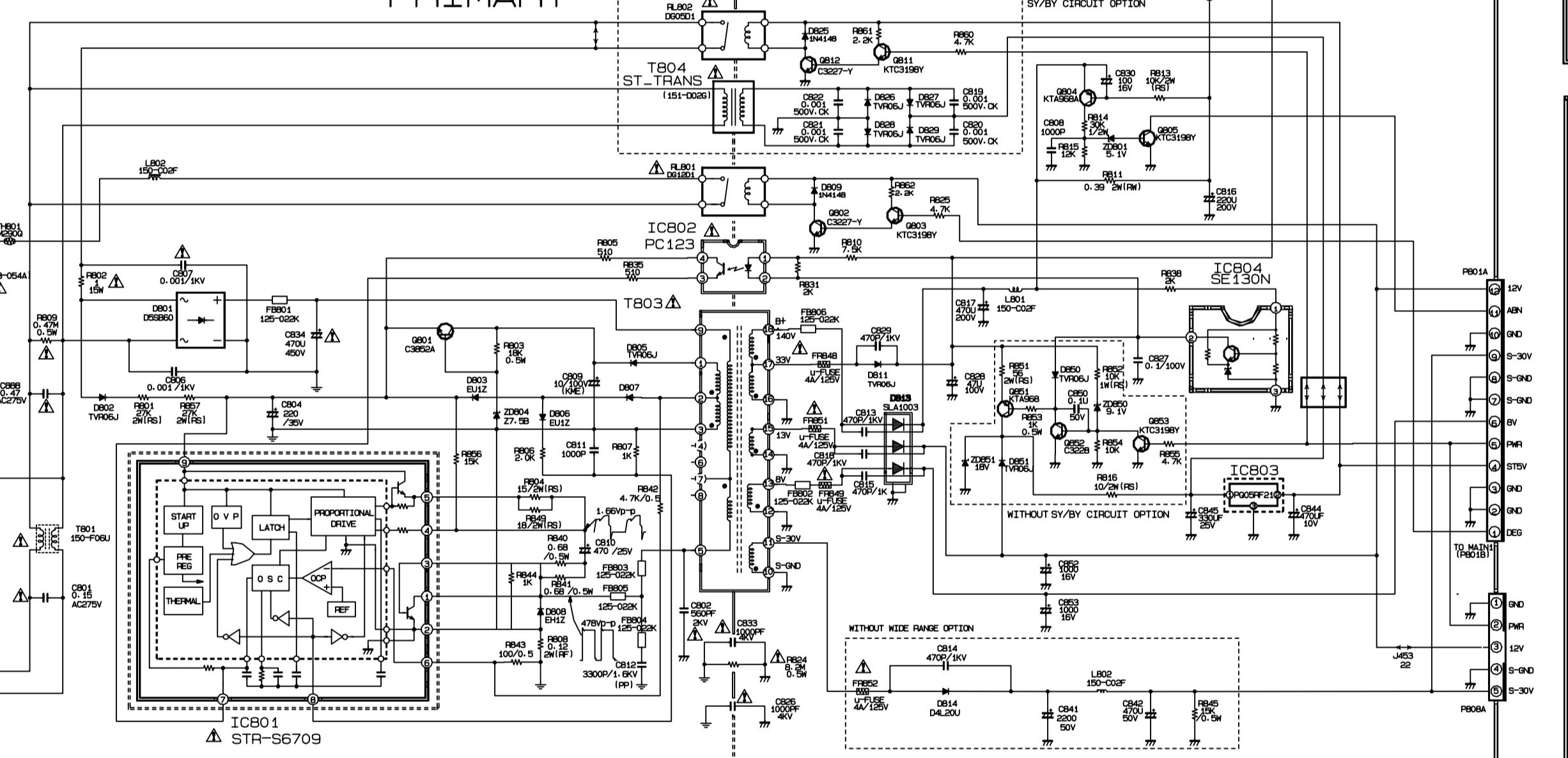


# CIRCUIT DIAGRAM FOR MC-006A CHASSIS MAIN2 & SUB ASSY

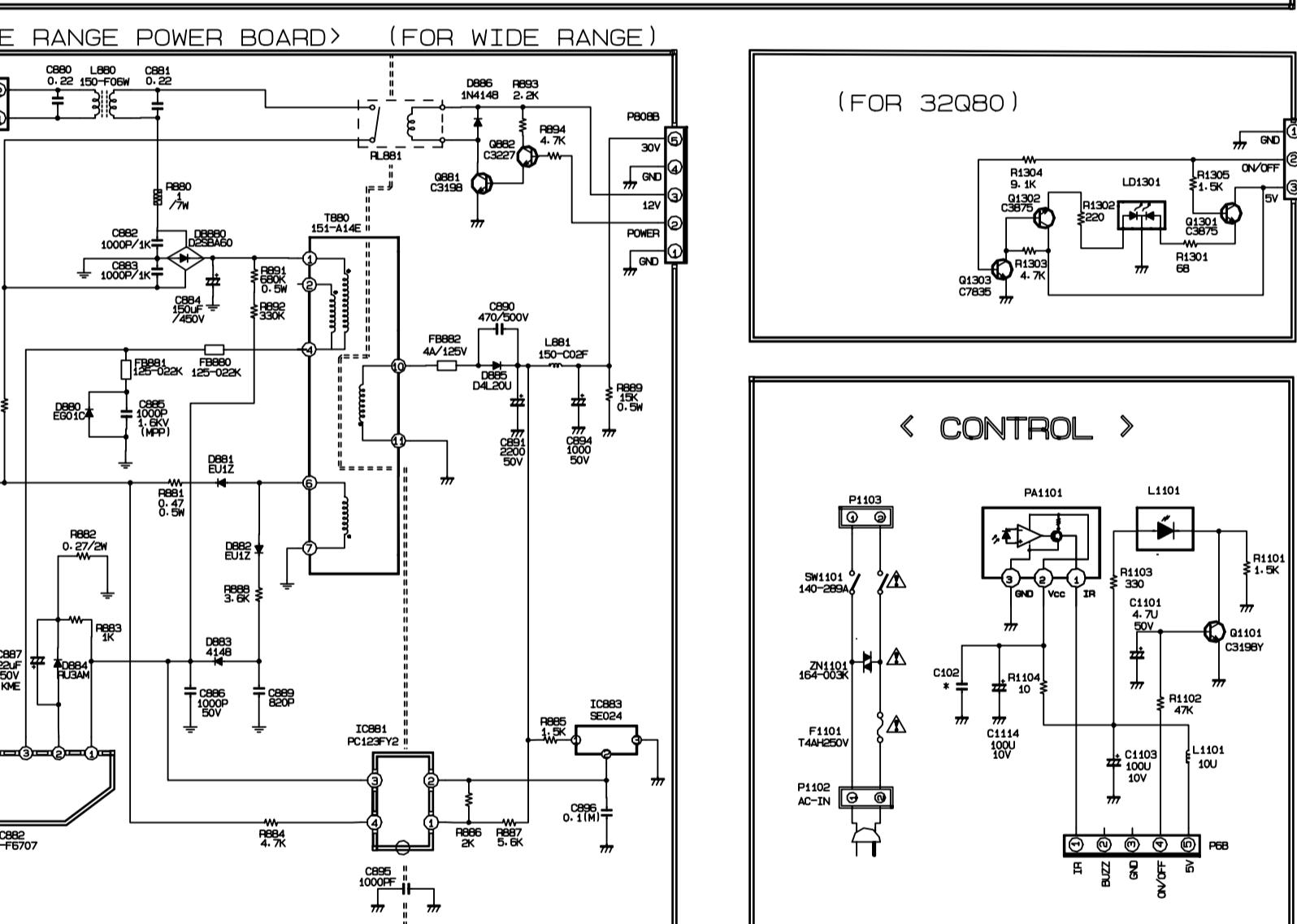
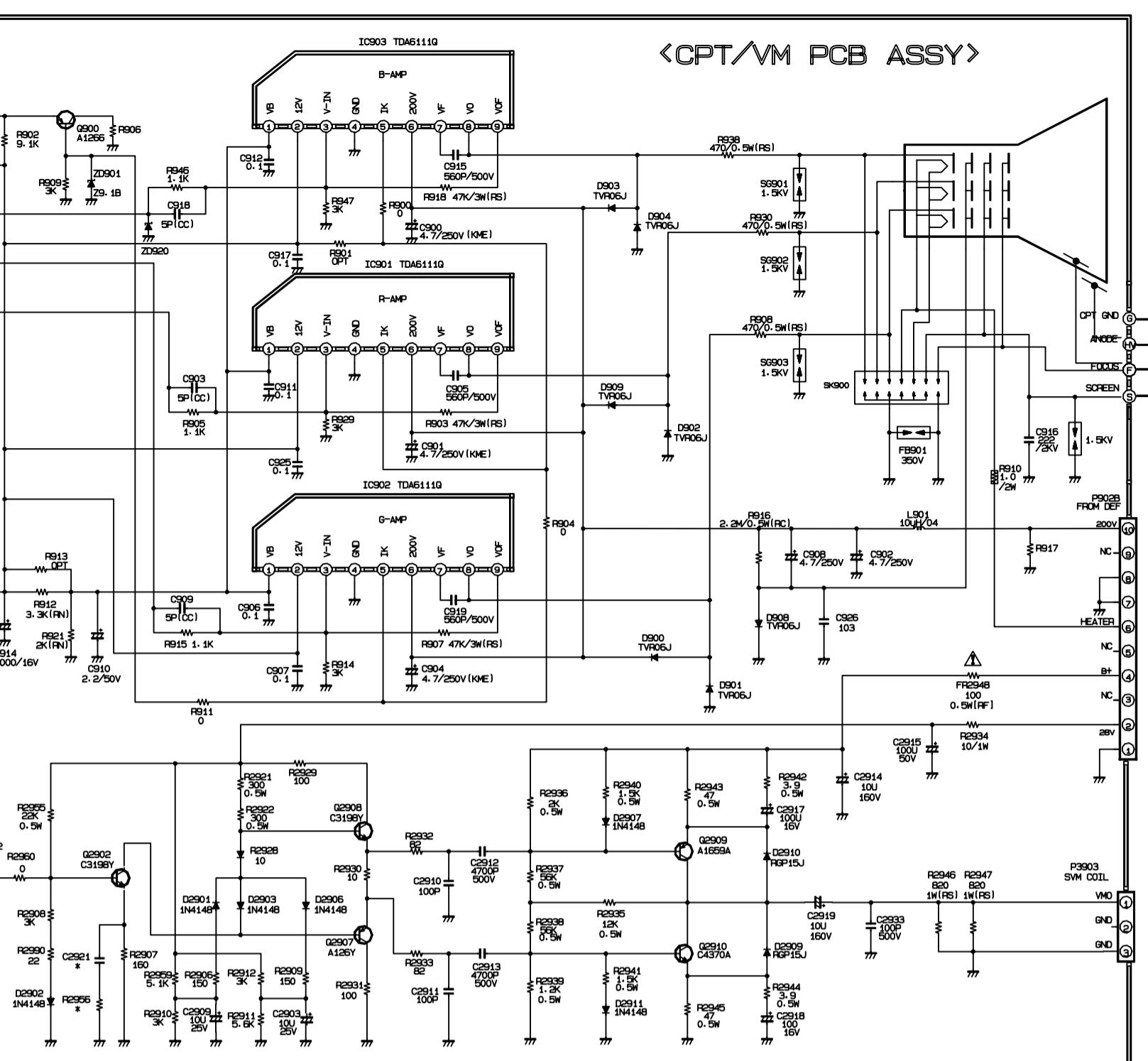
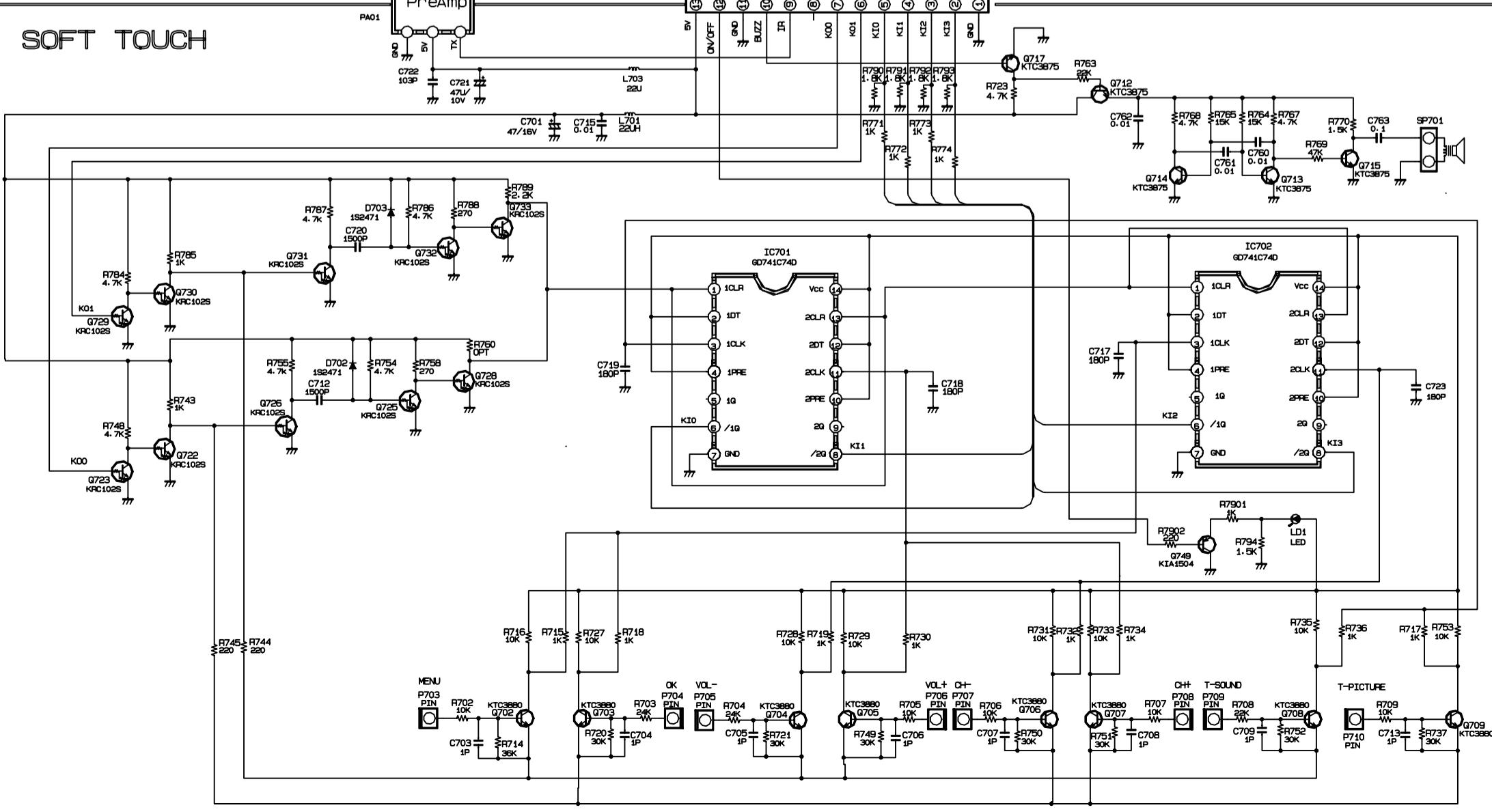
## MAIN2 (POWER & DEF)



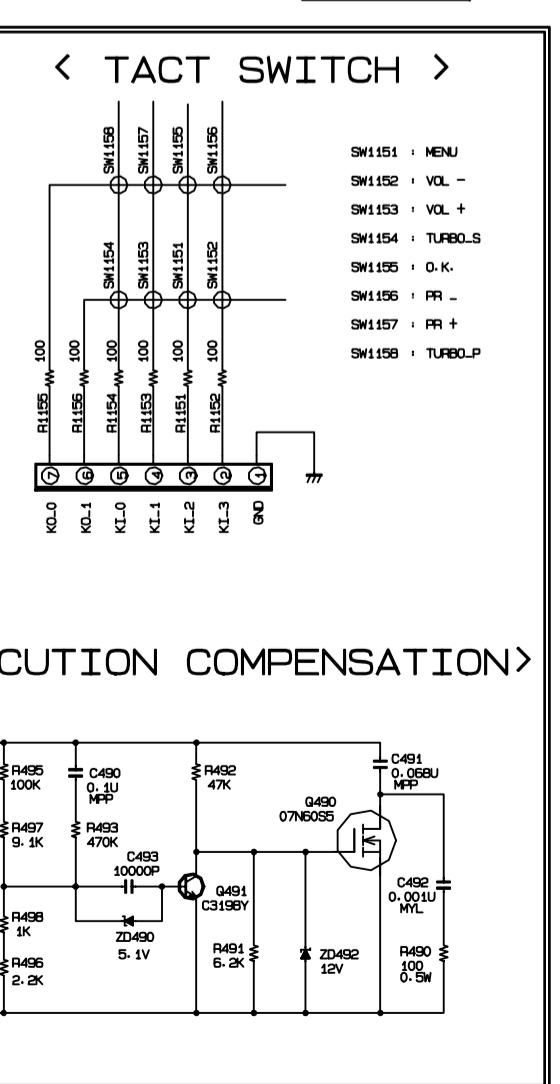
## SECONDARY



## SOFT TOUCH



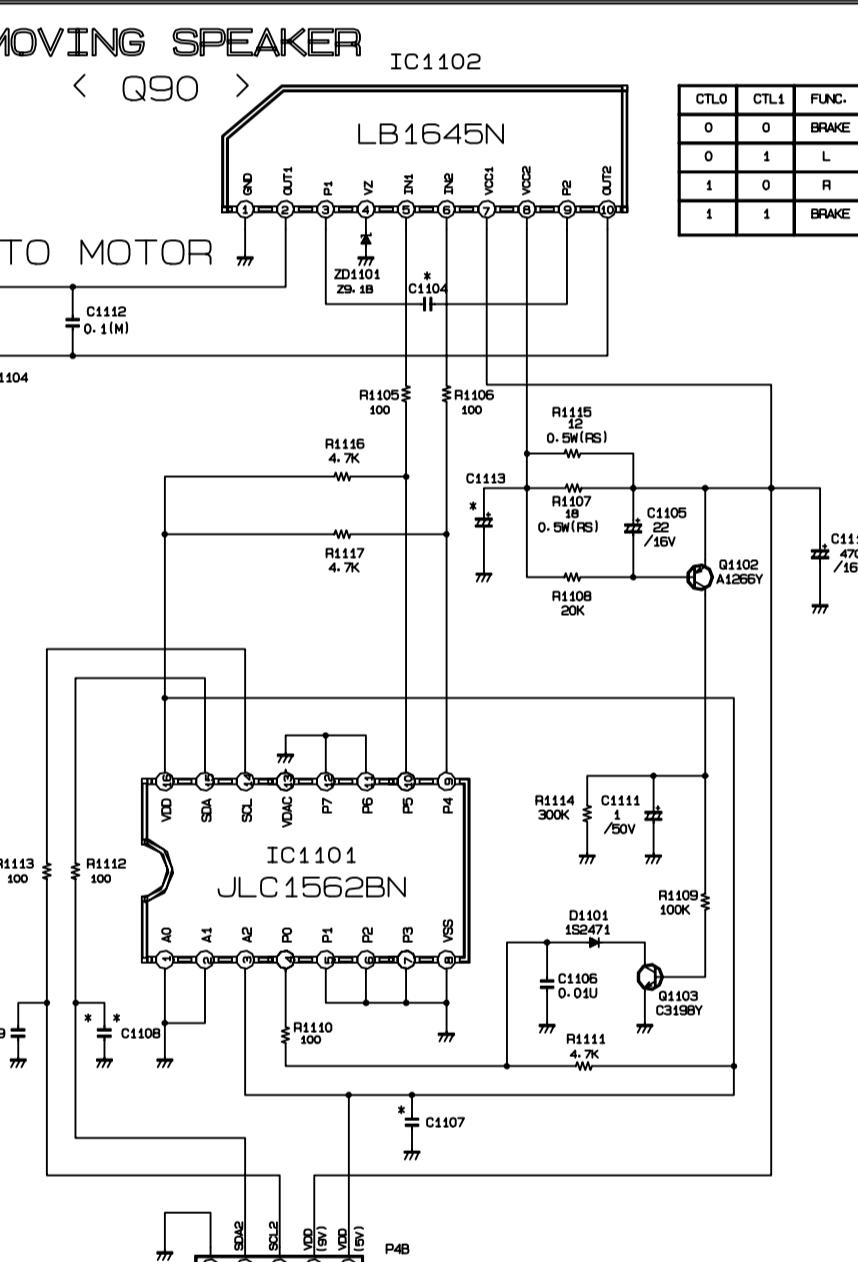
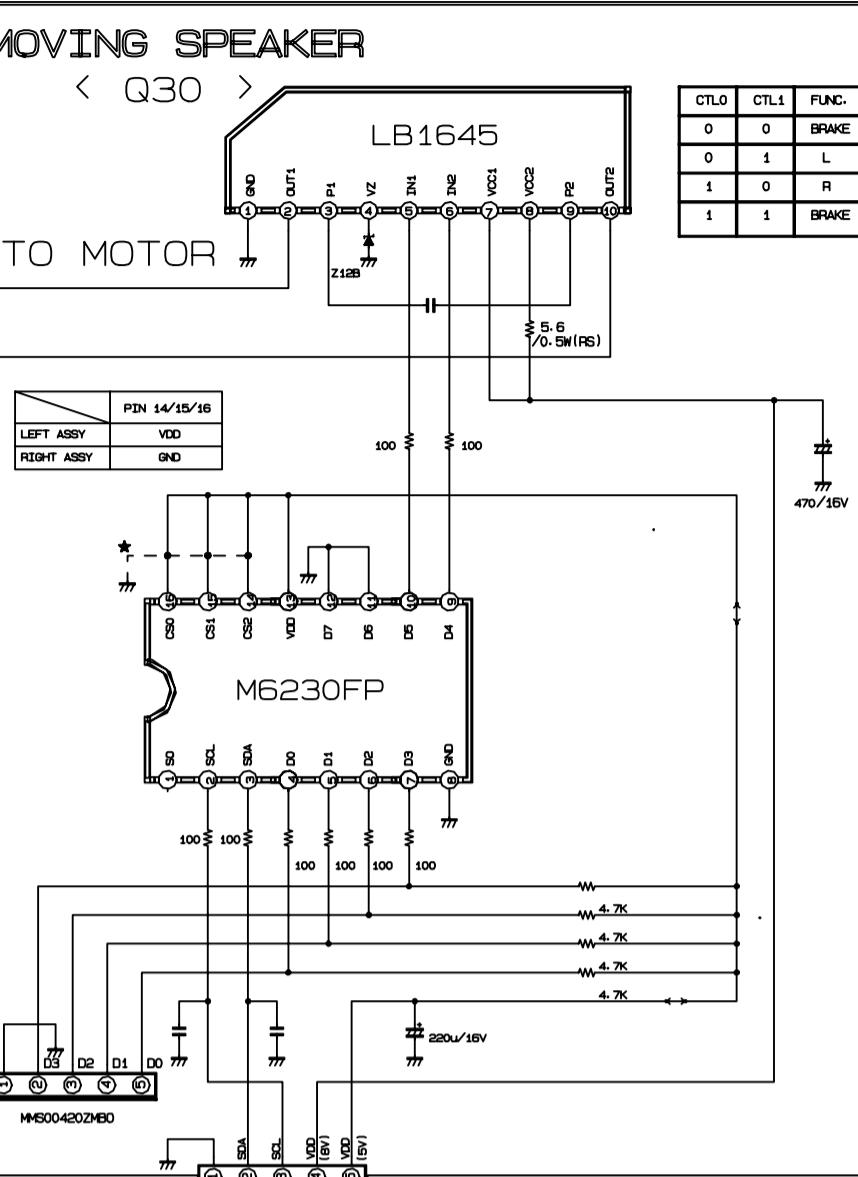
## TACT SWITCH



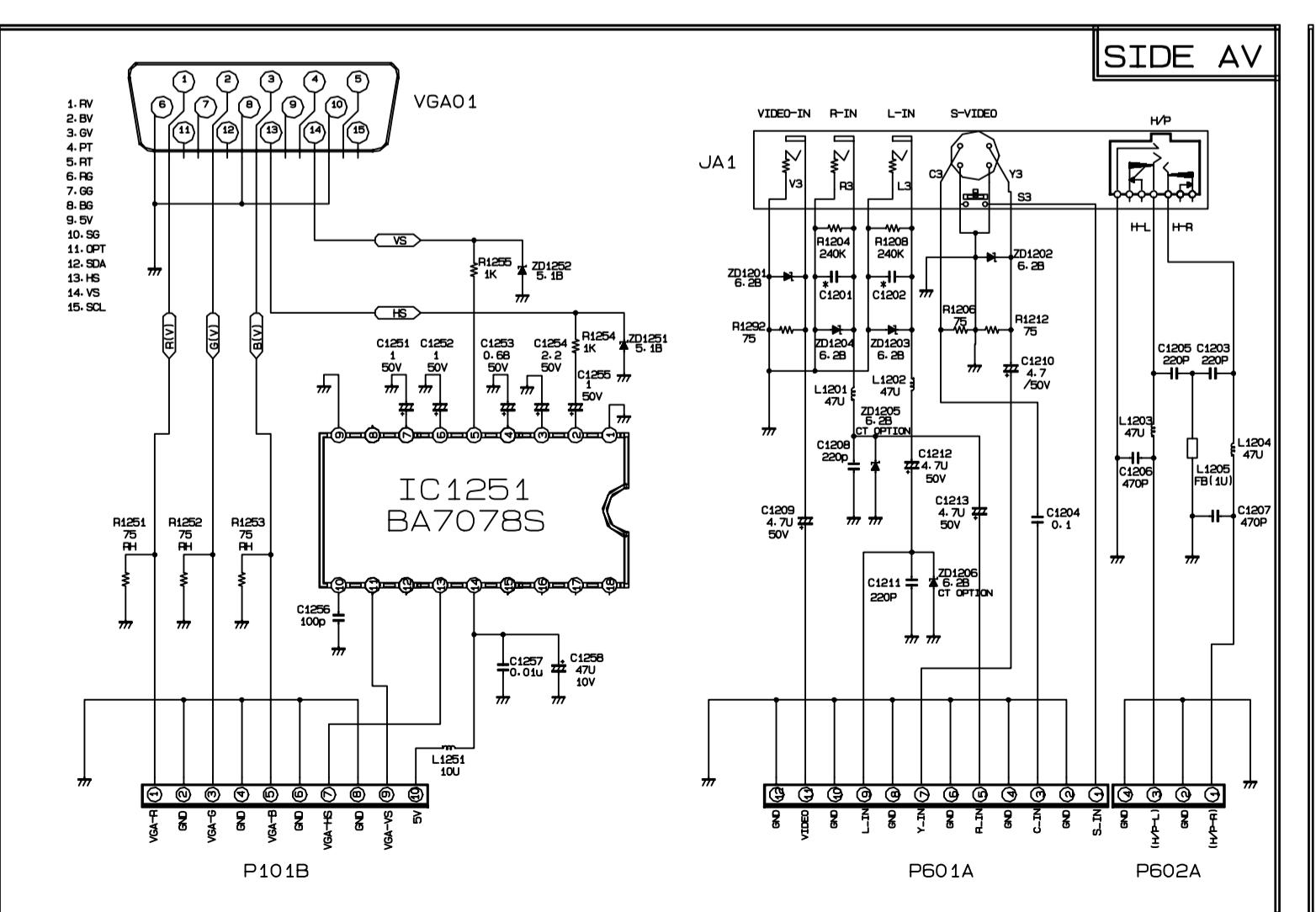
NOTICE  
Since this is a basic circuit diagram, it does not show all the components and connection lines required for complete assembly. The components marked  $\Delta$  are for reference only. The components marked  $\triangle$  are essential for safe operation of the set, while those marked  $\Delta$  are required for correct operation. Use specified parts only when replacing.

1. Resistances are given in ohm ( $\Omega$ ), Capacitor and inductor values are given in microfarad ( $\mu F$ ) and inductor values are given in millihenry ( $mH$ ). The sign of (+) in schematic means MIRROR CAPACITOR.  
2. Unless otherwise noted in schematic, all capacitor values test values at 25°C.  
3. Unless otherwise noted in schematic, all inductor values test values at 25°C.

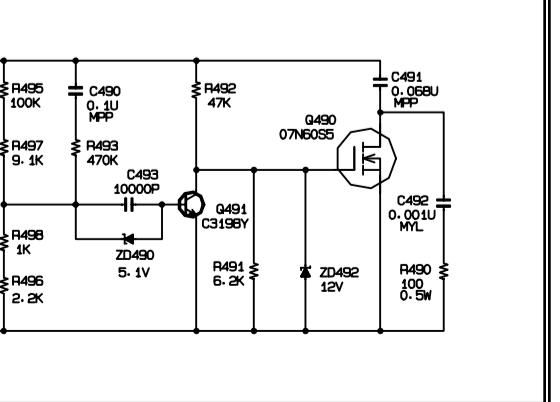
OBERVATION OF VOLTMAGE AND WAVEFORMS  
1. Voltages with AC from power source to chassis ground.  
2. Line voltage is 200 ~ 260 volts.  
3. Signal pattern is color-bar.  
4. The schematic shown is representative only.  
5. Check First during A.C. Brightness, Contrast and Color.  
6. Check Second during A.C. Brightness, Contrast and Color.  
7. Check Third during A.C. Brightness, Contrast and Color.  
8. Check Fourth during A.C. Brightness, Contrast and Color.  
9. Check Fifth during A.C. Brightness, Contrast and Color.  
10. Check Sixth during A.C. Brightness, Contrast and Color.  
11. Check Seventh during A.C. Brightness, Contrast and Color.  
12. Check Eighth during A.C. Brightness, Contrast and Color.  
13. Check Ninth during A.C. Brightness, Contrast and Color.  
14. Check Tenth during A.C. Brightness, Contrast and Color.  
15. Check Eleventh during A.C. Brightness, Contrast and Color.



## SIDE AV



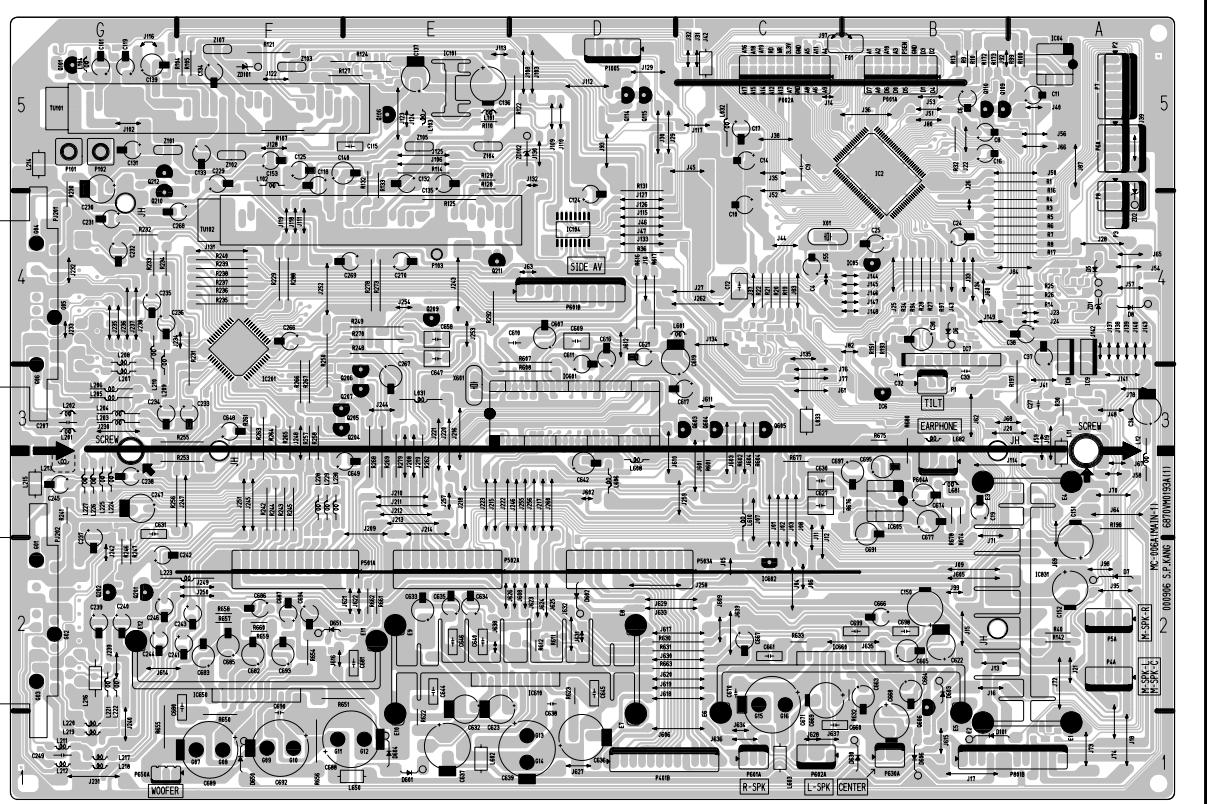
## PINCUTION COMPENSATION



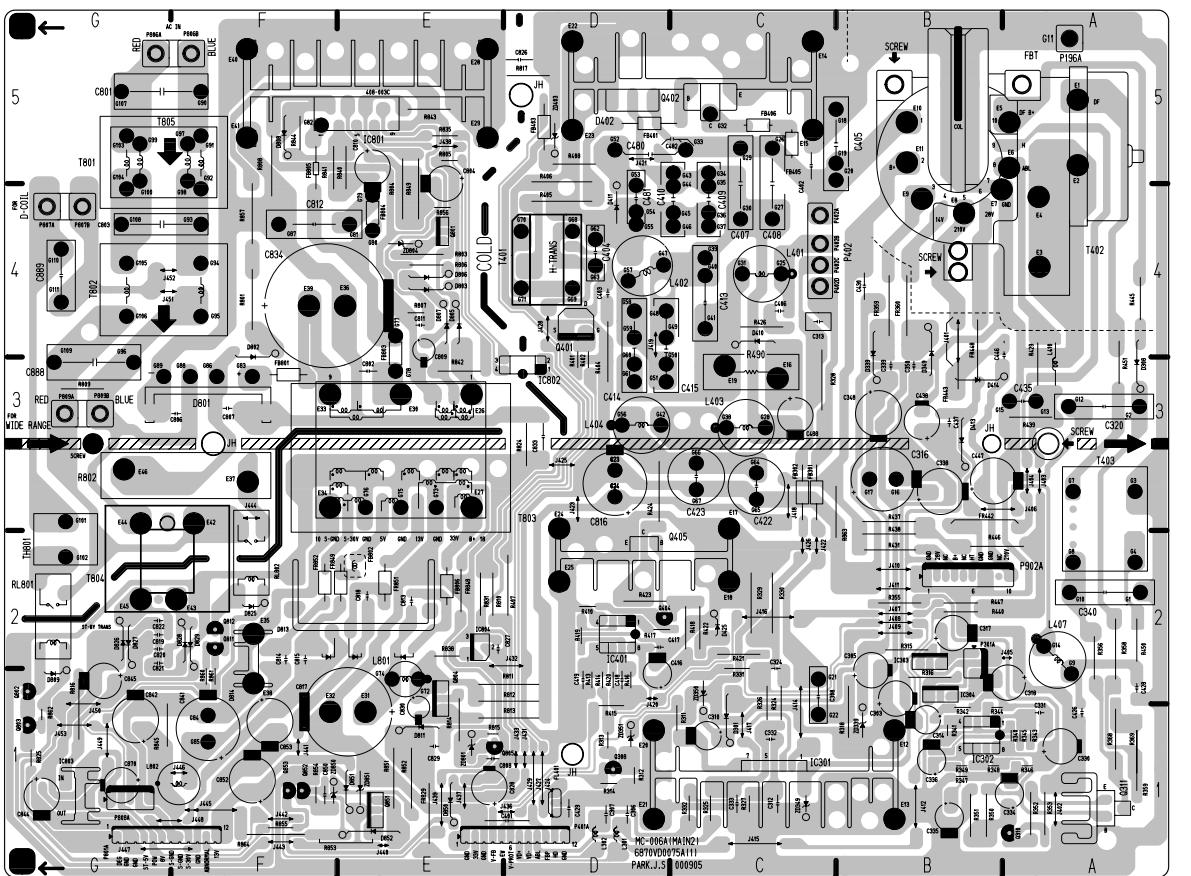
P/N : 3854VA0075A-S1(2/2)  
Date : 2001.09.14

## PRINTED CIRCUIT BOARD

**MAIN**



**MAIN 2**



## COMPONENT LOCATION GUIDE

C1.....B4	C205.....G3	C607.....D4	C688.....E1	L200.....G2	Q12.....E5	R104.....F5	R202.....G4	R272.....F4	R663.....D2	TP90.....G1	TP167.....A5
C2.....C4	C206.....G3	C608.....D3	C689.....E1	L201.....G2	Q13.....E5	R105.....F5	R203.....G4	R273.....E4	R664.....E2	TP91.....F2	TP168.....A5
C3.....C4	C207.....G3	C609.....D3	C690.....E1	L202.....G2	Q14.....E5	R106.....F5	R204.....G4	R274.....E4	R665.....E3	TP92.....F2	TP169.....B5
C4.....C4	C208.....G3	C610.....E4	C691.....E3	L203.....G2	Q15.....D5	R108.....F5	R205.....G4	R275.....E4	R667.....B3	TP93.....D2	TP170.....B4
C5.....C4	C209.....G3	C611.....D3	C692.....F1	L224.....G2	Q201.....G2	R109.....G5	R206.....G4	R276.....E4	R673.....B3	TP94.....B2	TP171.....B5
C6.....B5	C210.....G3	C612.....D3	C693.....F2	L225.....G3	Q202.....G2	R110.....E5	R207.....G4	R277.....E4	R674.....B3	TP95.....A2	TP172.....B5
C7.....A5	C211.....G3	C613.....D4	C694.....F2	L226.....G3	Q203.....G2	R113.....E5	R208.....F4	R278.....E4	R675.....B3	TP96.....F3	TP173.....B5
C8.....B5	C212.....G4	C614.....D3	C695.....B3	L227.....G3	Q204.....E5	R114.....E5	R209.....G4	R279.....E3	R676.....B3	TP97.....F3	TP174.....B5
C9.....C5	C213.....G3	C615.....D3	C696.....B3	L228.....F3	Q205.....E5	R115.....G5	R210.....G3	R280.....F5	R677.....C3	TP98.....F3	TP175.....B5
C10.....C4	C214.....G3	C616.....D4	C697.....B3	L229.....F3	Q206.....E4	R116.....E5	R211.....F4	R281.....G4	R678.....B3	TP99.....C3	TP176.....B5
C11.....A5	C215.....G3	C617.....D3	C698.....B2	L230.....F3	Q207.....E5	R117.....G5	R212.....F3	R282.....G4	R679.....B3	TP100.....C3	TP177.....B5
C12.....C4	C216.....G3	C618.....D4	C699.....B2	L231.....F3	Q208.....E5	R118.....E5	R213.....F4	R283.....E4	R680.....B3	TP101.....C3	TP178.....B5
C13.....A5	C217.....G3	C619.....D4	C700.....B2	L232.....F3	Q209.....E5	R119.....G5	R214.....F3	R284.....E4	R681.....B3	TP102.....C3	TP179.....B5
C14.....G5	C218.....G1	C620.....D3	C701.....B2	L233.....F3	Q210.....G5	R120.....A1	R215.....G2	R285.....E4	R682.....B4	TP103.....A3	TP180.....B5
C15.....B5	C219.....G4	C621.....D4	C702.....F1	L234.....G3	Q211.....E5	R120.....E5	R216.....G2	R286.....E4	R683.....B4	TP104.....A4	TP181.....B5
C16.....G5	C220.....G2	C622.....D8	C703.....F1	L235.....G3	Q212.....E5	R120.....G5	R217.....G2	R287.....E5	R684.....B4	TP105.....A4	TP182.....C5
C17.....C5	C221.....G4	C623.....E2	C704.....E1	L236.....C3	Q213.....E5	R121.....E5	R218.....G2	R288.....F4	R685.....A3	TP106.....A4	TP183.....C5
C18.....C5	C222.....G3	C624.....D2	C705.....E1	L237.....C3	Q214.....E5	R121.....G5	R219.....G2	R289.....E4	SMB.....G1	TP107.....A4	TP184.....C5
C19.....B3	C223.....G4	C625.....D3	C706.....D2	L238.....B3	Q209.....E4	R121.....G5	R220.....G2	R290.....E4	TP108.....D5	TP108.....A4	TP185.....F5
C20.....B4	C224.....G3	C626.....D3	C707.....D2	L239.....B3	Q207.....E4	R121.....G5	R221.....G2	R291.....E4	TP109.....E5	TP108.....A4	TP186.....F5
C21.....B4	C225.....F2	C627.....D3	C708.....B3	L240.....B3	Q208.....E4	R121.....G5	R222.....G2	R292.....E4	TP110.....E4	TP109.....A4	TP187.....C4
C22.....A3	C226.....F4	C628.....D3	C709.....B3	L241.....B3	Q209.....E5	R122.....G5	R223.....G2	R293.....E5	TP111.....E4	TP111.....B4	TP188.....C4
C23.....F3	C227.....F5	C629.....D3	C710.....E5	L242.....B3	Q210.....E5	R123.....A5	R224.....G2	R294.....F3	TP112.....E4	TP112.....B4	TP189.....C4
C24.....G4	C228.....G3	C630.....D3	C711.....F1	L243.....G3	Q211.....E5	R124.....A5	R225.....G3	R295.....F3	TP113.....E3	TP113.....B3	TP190.....C4
C25.....C4	C229.....G3	C631.....D3	C712.....E5	L244.....G3	Q212.....E5	R124.....A5	R226.....F3	R296.....F3	TP114.....E4	TP114.....B3	TP191.....C4
C26.....G5	C230.....G3	C632.....E2	C713.....E5	L245.....G3	Q213.....E5	R124.....A5	R227.....F3	R297.....E4	TP115.....B4	TP115.....C4	TP192.....C4
C27.....G3	C231.....G3	C633.....E2	C714.....E5	L246.....G3	Q214.....E5	R124.....A4	R228.....F3	R298.....C3	TP116.....B3	TP116.....C4	TP193.....C4
C28.....G3	C232.....G3	C634.....E2	C715.....E5	L247.....G3	Q215.....E5	R124.....A4	R229.....F4	R299.....C3	TP117.....A4	TP117.....B4	TP194.....D4
C29.....G3	C233.....F3	C635.....B4	C716.....D5	L248.....B3	Q200.....E5	R125.....A5	R230.....F5	R300.....D5	TP118.....E5	TP118.....B5	TP195.....C5
C30.....G3	C234.....G3	C636.....D1	C717.....E5	L249.....B3	Q201.....E5	R126.....E5	R231.....E5	R301.....D5	TP119.....E4	TP119.....B4	TP196.....C4
C31.....G3	C235.....G3	C637.....E1	C718.....E5	L250.....B3	Q202.....E5	R127.....E5	R232.....F4	R302.....D5	TP120.....E4	X01.....E4	TP197.....D4
C32.....G3	C236.....G3	C638.....D4	C719.....E5	L251.....B3	Q203.....E5	R128.....A2	R233.....G2	R303.....D5	TP121.....D4	X01.....E3	TP198.....D4
C33.....G3	C237.....G3	C639.....D1	C720.....E5	L252.....B3	Q204.....E5	R129.....A2	R234.....G2	R304.....F3	TP122.....D4	Z01.....G5	TP199.....C5
C34.....G2	C238.....G2	C640.....E2	C721.....E5	L253.....G3	Q205.....E2	R130.....A2	R235.....F4	R305.....F3	TP123.....B5	Z102.....D5	TP200.....C5
C35.....G3	C239.....G2	C641.....D3	C722.....E5	L254.....G3	Q206.....E2	R131.....A3	R236.....F4	R306.....F3	TP124.....B5	Z103.....F5	TP201.....C5
C36.....G3	C240.....F2	C642.....D3	C723.....E5	L255.....B3	Q207.....E3	R132.....A3	R237.....F4	R307.....F3	TP125.....B5	Z104.....E5	TP202.....C5
C37.....G3	C241.....G2	C643.....D3	C724.....D2	L256.....B3	Q208.....E3	R133.....A3	R238.....F4	R308.....F3	TP126.....B5	Z105.....E5	TP203.....C5
C38.....G3	C242.....G2	C644.....B3	C725.....D2	L257.....B3	Q209.....E3	R134.....A3	R239.....F4	R309.....F3	TP127.....B5	Z106.....E5	TP204.....C5
C39.....G3	C243.....G2	C645.....D2	C726.....C1	L258.....B3	Q210.....E3	R135.....A3	R240.....F4	R310.....F3	TP128.....B5	Z107.....E5	TP205.....C5
C40.....G3	C244.....G2	C646.....B2	C727.....C1	L259.....B3	Q211.....E3	R136.....A3	R241.....F4	R311.....F3	TP129.....B5	Z108.....E5	TP206.....C5
C41.....G3	C245.....G2	C647.....D2	C728.....C1	L260.....B3	Q212.....E3	R137.....A3	R242.....F4	R312.....F3	TP130.....B5	Z109.....E5	TP207.....C5
C42.....G3	C246.....G2	C648.....D2	C729.....E3	L261.....B3	Q213.....E3	R138.....A3	R243.....F4	R313.....F3	TP131.....B5	Z110.....E5	TP208.....C5
C43.....G3	C247.....G2	C649.....E3	C730.....E3	L262.....B3	Q214.....E3	R139.....A3	R244.....F4	R314.....F3	TP132.....D4	Z111.....E5	TP209.....C5
C44.....G3	C248.....G1	C650.....E4	C731.....E3	L263.....B3	Q215.....E3	R140.....A3	R245.....F4	R315.....F3	TP133.....D4	Z112.....E5	TP210.....C5
C45.....G3	C249.....G1	C651.....E1	C732.....E3	L264.....B3	Q216.....E3	R141.....A3	R246.....G2	R316.....F3	TP134.....D4	Z113.....E5	TP211.....C5
C46.....G3	C250.....G1	C652.....E1	C733.....E3	L265.....B3	Q217.....E3	R142.....A3	R247.....G2	R317.....F3	TP135.....D4	Z114.....E5	TP212.....C5
C47.....G3	C251.....G1	C653.....E1	C734.....E3	L266.....B3	Q218.....E3	R143.....A3	R248.....G2	R318.....F3	TP136.....D4	Z115.....E5	TP213.....C5
C48.....G3	C252.....G1	C654.....E1	C735.....E3	L267.....B3	Q219.....E3	R144.....A3	R249.....G2	R319.....F3	TP137.....D4	Z116.....E5	TP214.....C5
C49.....G3	C253.....G1	C655.....E1	C736.....E3	L268.....B3	Q220.....E3	R145.....A3	R250.....G2	R320.....F3	TP138.....D4	Z117.....E5	TP215.....C5
C50.....G3	C254.....G1	C656.....E1	C737.....E3	L269.....B3	Q221.....E3	R146.....A3	R251.....G2	R321.....F3	TP139.....D4	Z118.....E5	TP216.....C5
C51.....G3	C255.....G1</td										

**SVC. SHEET : 3854VA0075A-S1**  
**3854VA0075A-S2**