



**LG**

# LCD Projection TV **SERVICE MANUAL**

CHASSIS : MB-03CA

**MODEL : RT-48SZ40RB**

**CAUTION**

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



## **CONTENTS**

<b>CONTENTS .....</b>	<b>2</b>
<b>SAFETY PRECAUTIONS .....</b>	<b>3</b>
<b>SERVICING PRECAUTIONS .....</b>	<b>4</b>
<b>CONTROL DESCRIPTIONS .....</b>	<b>6</b>
<b>SPECIFICATIONS .....</b>	<b>10</b>
<b>ADJUSTMENT INSTRUCTIONS .....</b>	<b>14</b>
<b>BLOCK DIAGRAM.....</b>	<b>19</b>
<b>PRINTED CIRCIUT BOARD .....</b>	<b>23</b>
<b>EXPLODED VIEW .....</b>	<b>34</b>
<b>EXPLODED VIEW PARTS LIST .....</b>	<b>35</b>
<b>REPLACEMENT PARTS LIST .....</b>	<b>36</b>
<b>SVC. SHEET .....</b>	

# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  $\Delta$  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.

### 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.

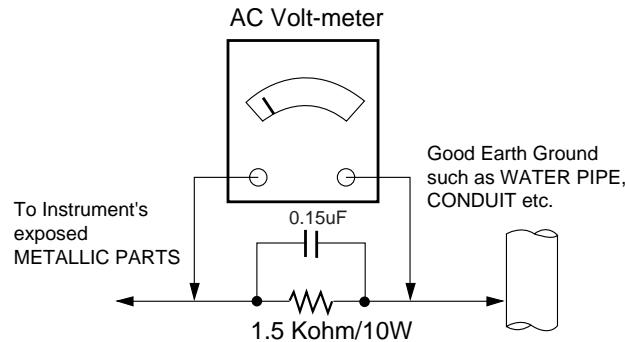
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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



# SERVICING PRECAUTIONS

**CAUTION:** Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

**NOTE:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

## General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
  - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
  - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
  - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
- CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

**CAUTION:** This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.  
Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*

**CAUTION:** Do not connect the test fixture ground strap to any heatsink in this receiver.

## Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect

transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
- CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

## General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wirebristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
  - a. Allow the soldering iron tip to reach normal temperature. (500°F to 600°F)
  - b. Heat the component lead until the solder melts.
  - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
- CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique
  - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
  - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
- CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

### **IC Remove/Replacement**

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

#### *Removal*

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

#### *Replacement*

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

### **"Small-Signal" Discrete Transistor Removal/Replacement**

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

### **Power Output, Transistor Device Removal/Replacement**

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

### **Diode Removal/Replacement**

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

### **Fuse and Conventional Resistor Removal/Replacement**

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

**CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

### **Circuit Board Foil Repair**

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

#### *At IC Connections*

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

#### *At Other Connections*

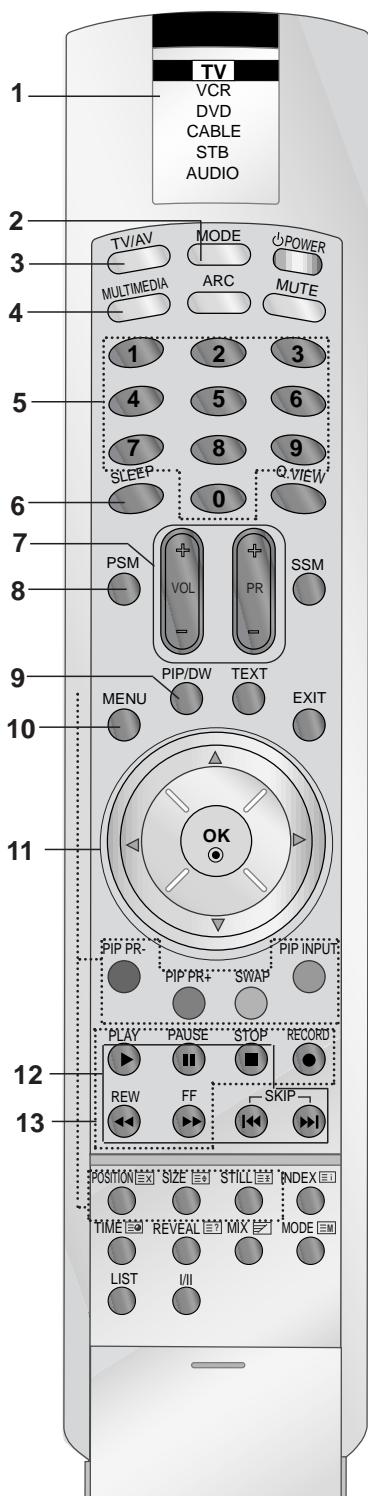
Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

**CAUTION:** Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

# CONTROL DESCRIPTIONS

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. Displays the selected device
2. **MODE**  
selects a LG TV, VCR or DVD function.
3. **TV/AV**  
selects the remote operating mode.  
switches the set on from standby.
4. **MULTIMEDIA**  
selects Component 1/2 or RGB-DTV, RGB-PC modes.
5. **NUMBER BUTTONS**  
switches the set on from standby or directly select a number.
6. **SLEEP**  
sets the sleep timer.
7. **VOL + / - (Volume Up/Down)**  
Increases/decreases sound level.  
**PR + / - (Programme Up/Down)**  
selects a programme.
8. **PSM (Picture Status Memory)**  
recalls your preferred picture setting.
9. **PIP BUTTONS (option)**  
**PIP/DW**  
switches the sub picture on or off.  
selects PIP, POP or DW modes.  
**PIP PR +/-**  
selects a programme for the sub picture.  
**SWAP**  
alternates between main and sub picture.  
**PIP 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.
10. **MENU**  
selects a menu.
11. **OK**  
accepts your selection or displays the current mode.  
▲ / ▼ or ◀ / ▶  
Adjusts menu settings.  
Selects menu item.
12. **DVD BUTTONS**  
control a LG DVD player.
13. **VCR BUTTONS**  
control a LG video cassette recorder.

**14. POWER**

switches the set on from standby or off to standby.

**15. MUTE**

switches the sound on or off.

**16. ARC (Aspect Ratio Control)**

changes the picture format.

**17. Q.VIEW**

returns to the previously viewed programme.

**18. SSM (Sound Status Memory)**

recalls your preferred sound setting.

**19. TELETEXT BUTTONS (option)**

These buttons are used for teletext.

For further details, see the 'Teletext' section.

**20. EXIT**

Clears all on-screen displays and returns to TV viewing from any menu.

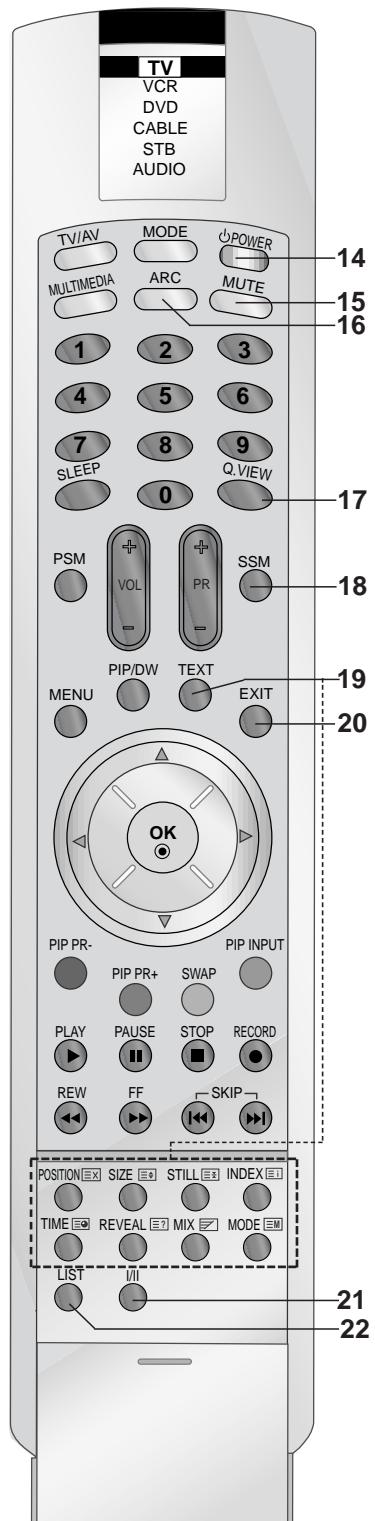
**21. I/II**

selects the language during dual language broadcast.  
selects the sound output (option).

**22. LIST**

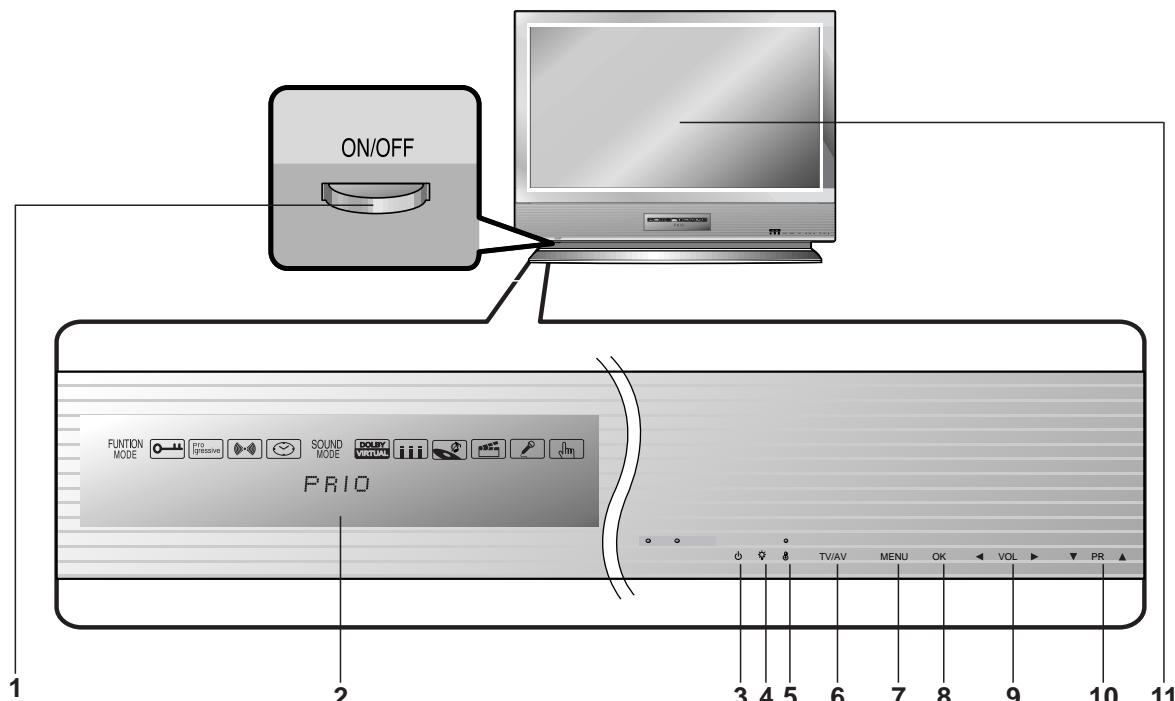
displays the programme table.

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



## Front panel

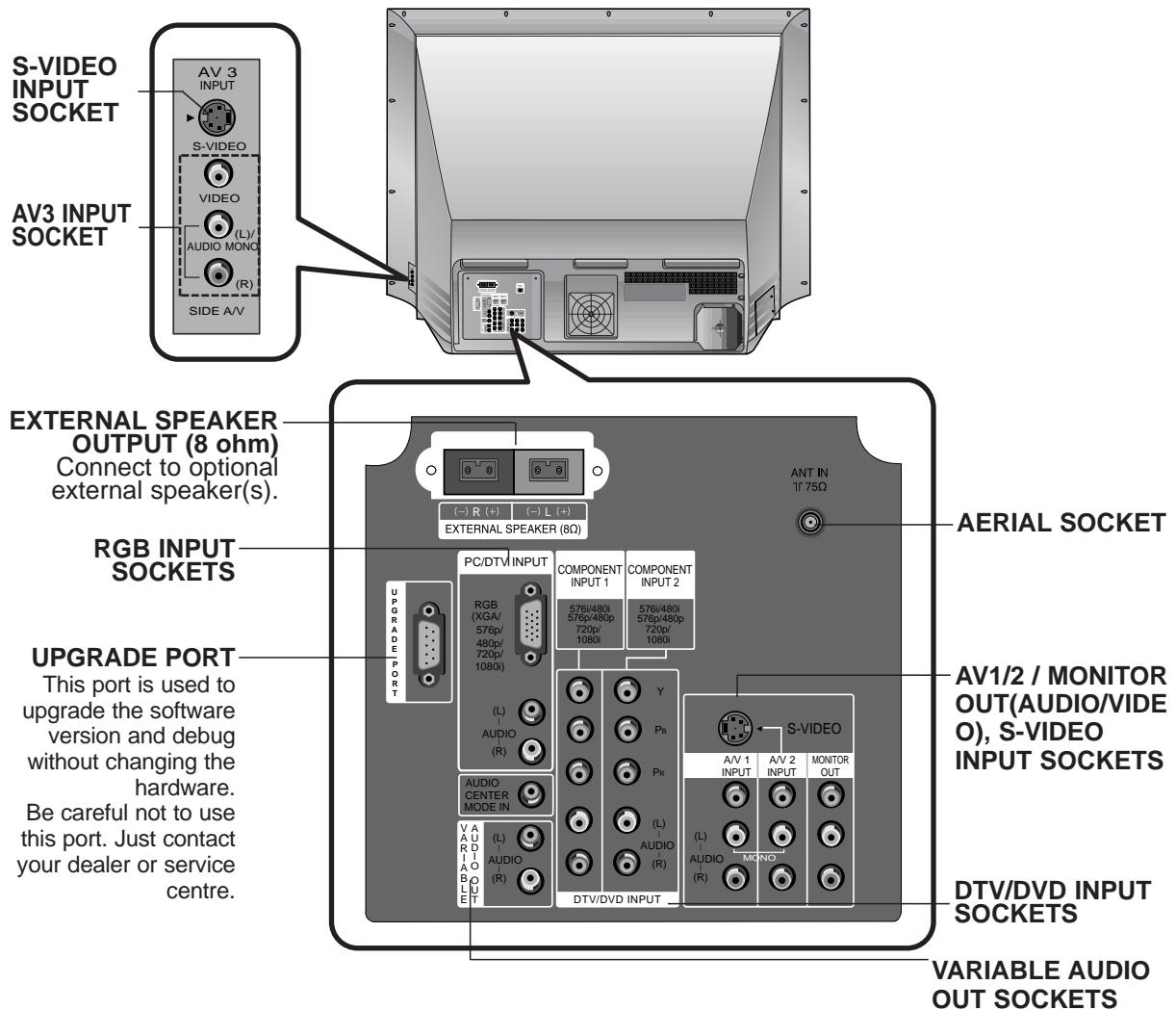
Lamp indicator, operation indicator, and temperature indicator, located below the front panel controls reveal the operating status of the LCD projection TV.



1. **MAIN POWER (ON/OFF)**  
switches the set on or off.
2. **LED (Light Emitting Diode) DISPLAY**
3. **OPERATION INDICATOR** (Refer to p.7)
4. **LAMP INDICATOR** (Refer to p.7)
5. **TEMPERATURE INDICATOR** (Refer to p.7)
6. **TV/AV**  
selects the remote operating mode.  
switches the set on from standby.
7. **MENU**  
selects a menu.
8. **OK**  
accepts your selection or displays the current mode.
9. **◀ / ▶ (Volume Down/Up)**  
adjusts the volume.  
adjusts menu settings.
10. **▲ / ▼ (Programme Up/Down)**  
selects a programme or a menu item.  
switches the set on from standby.
11. **REMOTE CONTROL SENSOR**

*Note : There might be a faint white trace on the center of the screen according to the position. This is normal and is a characteristic of the screen.*

## Rear panel



### •Status Indicators

Operation Indicator	Off	Power cord is not connected.
	Red	Power Cord is connected, unit is on standby.
	Green	On
	Orange (flashing)	Preparing operation in standby.
Lamp Indicator	Orange	Projection lamp is reaching the end of its life and needs to be replaced with a new lamp.
	Green (flashing)	The lamp cover is not closed.
Temperature Indicator	Orange	The set is overheating.
	Red	The set has shut down due to overheating.
	Red (flashing)	The set has shut down, check the cooling fan.

# SPECIFICATIONS

**NOTE :** Specifications and others are subject to change without notice for improvement.

## ■ Scope

This specification can be applied to the LCD Projection(RT-48SZ40RB)

## ■ Test and Inspection Method

- 1) performance:Follow the Standard of LG TV test
  - 2) Standards of Etc requirement  
Safety: Follow the standard of CB  
EMC : Follow the standard of CE
- 
- 1) Temperature :25 ; 5°C
  - 2) Relative Humidity:65 ; 10%
  - 3) PowerVoltage:Standard input voltage(AC 230V ; 10 %, 50Hz)  
But Standard input voltage mark value is marked by model.
  - 4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
  - 5) Follow each drawing or spec for spec and performance of parts,based upon P/N of B.O.M
  - 6) Warm up TV set for more than 30min. before the measurement.

## ■ General Specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Video input applicable system	PAL – B/G, D/K, I, M, N SECAM B/G, D/K, L/L'				
2	AV receiving system	PAL/SECAM NTSC 3.58/ 4.43				except PAL-M/N
3	Available Channel	VHF : E2 ~ E12 UHF : E212 ~ E69 CATV : S1~ S20 HYPER : S21 ~ S41 L/L' VHF : B,C,D (Option)				
4	Input Voltage	AC 230V, 50Hz				
5	Market	EU				
6	Screen size	48 inch				
7	Aspect ratio	16:9 (wide)				
8	Operating Temperature	0		40	deg	
9	Operating Humidity			85	%	
10	Storage Temperature	-20		60	deg	
11	Storage Humidity			85	%	

## ■ Feature and Function

No	Item	Specification				Remark			
		Min	Typ	Max	Unit				
1	REMOCON	LG Code							
2	RGB Input	1	Separate			D-Sub 15 Pin			
3	RGB Audio (L, R) Input	1	L/R						
4	Component Audio (R, L) Input	2	Y, P <sub>B</sub> , P <sub>R</sub>						
5	Component Input	2	L/R						
6	AV Input	4	Bottom : Full Scart (AV1) 1 Half Scart 9AV2/S-video2 Half Scart(AV3)						
			Top : S-Video (AV4) A/V Input (AV4)						
7	TV out	1	1Rear			Scart1 Out			
8	Monitor out	1	1Rear			Scart2 Out			
9	Serial Port	1							
10	Speak Out	Left/Right							
11	Local key	Power, Menu, ok, Volume (◀, ▶), Channel (▲, ▼)							
12	Picture, EZ Video mode	Dynamic/ Standard/ Mild/ Game/ User							
13	Picture, User Control	Contrast/ Brightness/ Colour/ Sharpness/ Tint							
14	Display mode		PC : 16:9/ 4:3/ User						
			CVBS : 4:3/ 16:9/ Zoom/ Auto/ 14:9						
15	Sound, EZ Sound mode	Dolby Virtual/ Flat/ Music/ Movie/ Speech							
16	Sound Stereo/ Dual	A2 : B/ G, D/ K, NICAM : B/ G, D/ K, I, L/ L'							
17	PIP/ POP Mode	O							
18	SSC (Split Screen) Mode	O							
19	Teletext	Top/ Flop							
20	Timer	Sleep Timer/ Auto Sleep							
21	OSD Language	EU 17 Nation							
22	Index	Off/ Dark/ Normal/ Bright							

## ■ Power

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Power ON/OFF operation	10000			times	
2	Starting Voltage (AC INPUT)	-20			%	At Room Temperature
3	Starting Voltage (AC INPUT)	-15			%	At -10 °C
4	DC Voltage, Ballast	360	380	400	V	
5	DC Voltage, Audio AMP	28	32	36	V	
6	DC Voltage, 3.3V, stand-by	3.15	3.3	3.45	V	
7	DC Voltage, Analog 3.3V	3.15	3.3	3.45	V	
8	DC Voltage, Analog 2.5V	2.438	2.5	2.600	V	

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
9	DC Voltage, Digital, 5V	4.875	5	5.125	V	
10	DC Voltage, Turning voltage	29	31	33	V	
11	DC Voltage, LCD Driver, 5V	4.5	5.0	5.5	V	
12	DC Voltage, LCD Driver, 17.5V	17	17.5	18	V	
13	DC Voltage 3.3, SUB MICOM	3.15	3.3	3.45	V	
14	DC Voltage 2.5V, SUB MICOM	2.438	2.5	2.600	V	
15	DC Voltage, FAN	11.5	12	12.5	V	

### ■ External Interface

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Video Input Level	0.85	a1	1.15	Vpp	
2.	Video Input Frequency Response	3			MHz	
3.	Video output S/N	40			dB	
4.	S-Video Input Level (Y)	0.85	1	1.15	Vpp	
5.	S-Video Input Level (C-Burst)	0.256	0.286	0.316	Vpp	
6.	Component Video Input Level (Y, C <sub>B</sub> / P <sub>B</sub> , C <sub>R</sub> / P <sub>R</sub> )	0.6	0.7	0.8	Vpp	75 ohm (480I/P, 576I, 720P, 1080I)
7.	R/G/B Video Input Level	0.6	0.7	0.8	Vpp	75 ohm
8.	Audio Input S/N	40			dB	
9.	Audio Input Distortion			2	%	
10.	Audio Input Dynamic Range	2			V	
11.	Audio Input Level	0.47	0.63	0.79	Vrms	
12.	Audio Input Frequencyl Response	0.05		10	kHz	

### ■ Component Video Input (Y, P<sub>B</sub>, P<sub>R</sub>)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)	Pixel clock	
1.	640x480	15.75	60		SDTV, DVD 480I
2.	640x480	15.73	59.94		SDTV, DVD 480I
3.	704x480	31.47	59.94		EDTV 480P
4.	720x576	15.625	50		SDTV, DVD 576I
5.	720x576	31.250	50		EDRV 576P
6.	1280x720	45.00	60.00		HDTV 720P (60Hz)
7.	1280x720	37.50	50		HDTV 720P (50Hz)
8.	1920x1080	33.75	60.00		HDTV 1080I (60Hz)
9.	1920x1080	28.125	50		HDTV 1080I (50Hz)

## ■ Option

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Volume Curve		0			0 : Standard 1 : Non-Standard (Southeast Asia,Central America)
2.	Text Top		1			0 : Support FLOP 1 : Support All (FLOP + TOP)
3.	I_II SVC		0			0 : Do not save DUAL When converting Channel 1 : Save DUAL when Converting Channel
4.	Lamp_Type		1			0 : OSRAM 1 : PHILIPS
5.	C_Mute		0			0 : Not Ready to Over-Modulation in DK Mono 1 : Ready to Over-Modulation in DK Mono
6.	system		2			BG/i/DK/LL'
7.	Text Language		0			0 : west EU 1 : East EU 1 2 : East EU 2 3 : Turkey EU 4 : Cyrillic 1 5 : Cyrillic 2 6 : Cyrillic 3 7 : Turk GRE 1 8 : Turk GRE 2 9 : Turk GRE 3 10 : Arab FRA 11 : Arab ENG 12 : Arab HEB 1 13 : Arab HEB 2 14 : FARS ENG 15 : FARS FRA 16 : FARS All

# ADJUSTMENT INSTRUCTIONS

## 1. Application Object

This instruction is for the application to the LCD Projection

## 2. Notes

- (1) The power source insulation of this LCD Projection is not charging type and you may not use the transformer for insulation. But you'd better adjust the set after operating it with insulation transformer between power supply cable and input part of the set for protecting the adjusting equipments.
- (2) The adjustment must be performed under the correct sequence.
- (3) The adjustment must be performed in the circumstance of 25+-5°C of temperature and 65; 10% of relative humidity if there is no specific designation.
- (4) The input voltage of the receiver must keep 230V, 50Hz in adjusting.
- (5) The set must be operated for 5 minutes preliminarily before adjustment if there is no specific designation.  
The preliminary operation must be performed after receiving 100% white pattern, but reception of the moving picture may also be possible in unavoidable case.

## 3. Composition of Adjustment Mode

- (1) All adjustment mode are entered by pressing the ADJ key on the remote control, after adjustment press the ADJ key to come out.
- (2) Below picture is screen composition when press the first ADJ key.
- (3) Select menu to adjust with using (CH+(▲), CH-(▼)) key above screen and press Volume+(▶)key to adjust on the wanting menu.

RT52SZ30RB [V\*.\*]  
RGB Alignment  
62352  
Uniformity Adj  
Gamma Adjust  
AD9883 Adjust  
  
Sub Micom Ver. \*\*  
Main Micom Ver. \*\*

<The first screen of adjustment mode>

- (4) Adjust the value of adjustment with using the volume +◀, volume -▶ key.
- (5) Press the ADJ key to come out after adjustment.
- (6) ex.) Composition of each adjustment mode.

RGB Alignment  
9.DXOUTB  
10.H\_positon



- 1). RGB Alignment: This is the sub adjustment item by selected Adjust key.
- 2) ▲, ▶ (Vol +/-): This is the key to change the data.
- 3) ▲, ▼ (CH +/-): This is the key to change the sub menu.

## 4. LCD adjustment

### 4-1. NRS adjustment

[When the LCD panel load data on regular pixel using high speed charge/ discharge with sample & holder, the drain width of TFT gradually decreases and the non-resistance increases, and comes out regular noise on screen (shows vertical line by 12 pixel)]

#### (1) Required Test Equipments

- 1) PC Pattern generator; 16 Gray Pattern
- 2) Fixation stand
- 3) Remote control for adjustment
- 4) Circuit thing Jig for adjustment (Except Driver Board Assy)

#### (2) Equipment composition : Refer to <Fig 2>

#### (3) Preparation for Adjustment

- 1) Connect PC PATTERN GENERATOR to JIG SET as shown <Fig 2>. (Except drive part of a circuit block)
- 2) Select 16 Gray pattern of PC PATTERN GENERATOR

#### (4) Adjustment Sequence

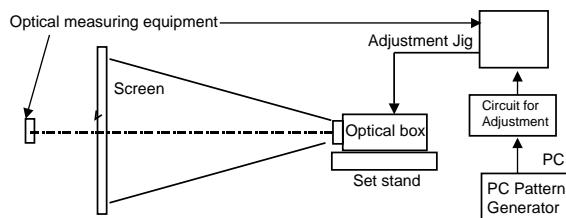
- 1) Turn on power supply in the JIG for adjustment.
- 2) Press the INPUT key to select RGB\_PC mode.
- 3) Press the ADJ key on remote control for adjustment to enter the adjustment mode.
- 4) Select the '62352' and press the ▶ key. Then select 6. RNRSH, 9.GNRSH, 11.BNRSH of ADJUST MODE to adjust.
- 5) Let's decrease vertical line Noise by using Volume button. (Input a R, G, B input signal, then adjust it individually)
- 6) When finishing the adjustment, get out of adjustment mode by pressing Adjust key.

## 4-2. VCOM ADJUSTMENT

### (1) Required Test Equipments

- 1) PC PATTERN GENERATOR ; Pattern Generator which can generate each R, G, B signal and can observe the FLICKER best (ex : me Character Pattern)
- 2) <Fig.2> Equipment composition
- 3) Remote control
- 4) Circuit thing Jig for Adjustment (Except Driver Board Assy of adjustment model)

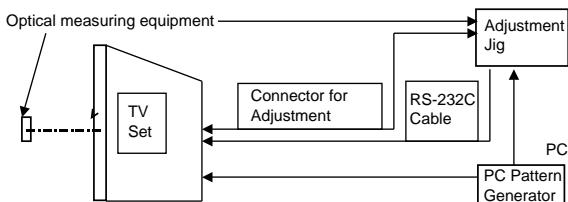
### (2) Equipment Composition



<Fig 1.Adjustment of circuit>

### (3) Preparation for Adjustment

- 1) Connect the PC PATTERN GENERATOR, circuit for adjustment and adjustment JIG as shown <Fig 2>.
- 2) Adjust output pattern of PC PATTERN GENERATOR to possible display and then turn on the power.



<Fig 2.TV set status Adjustment>

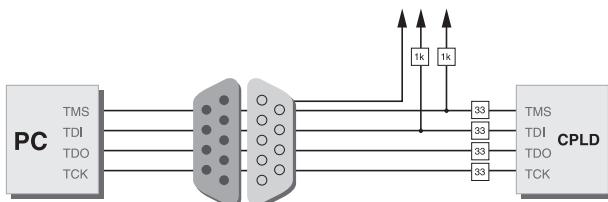
#### (4) Adjustment Sequence

- 1) Turn on the adjustment Jig
- 2) Select RGB\_PC by pressing input Select Key on Remote control.
- 3) Enter to adjustment mode by pressing Adjust key on Remote control.
- 4) Select the '62352', then ready to adjust 4. RVCOM, 7. GVCOM, 10.BVCOM
- 5) Let's decrease flicker by using Volume key  
(Input a R, G, B input signal, then adjust it individually)
- 6) When finishing the adjustment, get out of adjustment mode by pressing Adjust key.

## 5. CPLD Download Work

### (1) Required Test Equipments & Preparation for Adjustment

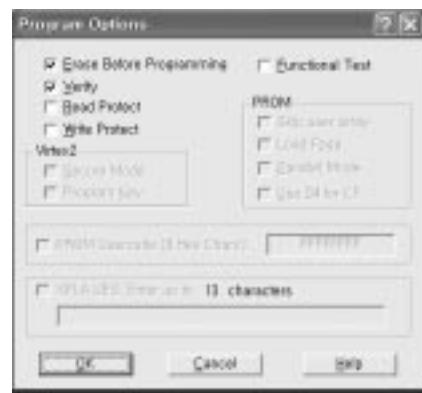
- 1) Connect the PC and memory JIG as shown <fig3>.
- 2) Turn on JIG MAIN POWER SW.
- 3) After turn on the PC and monitor, operate the device programming.



<Fig 3.How to connect the MEMORY JIG and PC>

### (2) Adjustment Sequence

- 1) After program running, displayed [OPTION MODE SELECTION] window.  
Check the "Load configuration File(.cdf, .pdr)" in this window and click the finish button
- 2) When the screen displays the open window, select the suitable file(\*.cdf) according to model.
- 3) IC figure is change to green by clicking it.
- 4) Select the program of operations.
- 5) Check the [Erase before programming] and [Verify] menu as shown <Fig4> and press the OK button.
- f) At this time, the download starts. The download finished after 10 seconds.



<Fig 4. Program Options>

## 6. H/V Position Adjustment

### (1) Required Test Equipments

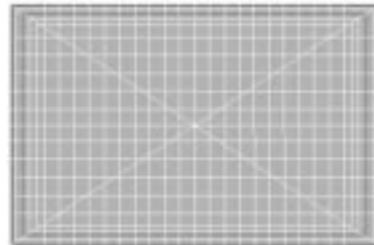
A remote control of adjustment

### (2) Preparation for Adjustment

- 1) Turn TVset on and press EYE key on the remote control.
- 2) 11th screen - Select the pattern that has 11th white small square/ diagonal, and the red big square.

### (3) Adjustment Sequence

Adjust data with using the up/down/left/right key on the remote control



<Fig 6. Eye Pattern-Tilt/ keystone & H.V Position adjustment>

## 7. Screen position adjustment

### (1) Required Test Equipments

A remote control of adjustment

### (2) Preparation for Adjustment

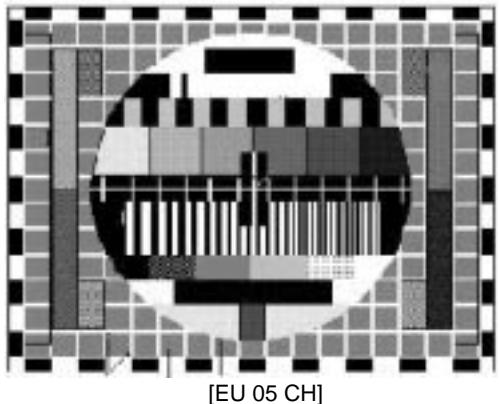
- 1) Connect the power source with TV Set and turn TVset on
- 2) Do Heat Run for 5 minutes and over before adjustment.

### (3) Horizontal Position Adjustment

- 1) Press ADJ key on the remote control to enter the adjustment mode
- 2) Select the RGB Alignment of the adjustment menu.
- 3) Select H-position with ▶ key.
- 4) Adjust data with using the left/right key on the remote control in order to be left/right symmetry screen.

### (4). Vertical Position Adjustment

- 1) Select V-position with channel key.
- 2) Change the data to symmetrized upper and down of screen (refer to Fig6) and then press the Volume key on Remote control to get out of adjustment mode.



## 8. Component Offset Adjustment

### (1) Required Test Equipments :

A remote control for adjustment, 801GF

### (2) Preparation for Adjustment

- 1) Connect a power source with TV Set and turn TV set on.
- 2) Do Heat-Run for 5 minutes and over before adjustment.
- 3) Receive the Component 1 or 2.
- 4) Receive the 720P/60Hz, HozTVBar Pattern of 801GF



<Fig 7. 720P HozTVBar Pattern>

### (3) Offset Adjustment

- 1) Press Adjust key on the remote control to enter the adjustment mode after more than 10 seconds of receiving the signals.
- 2) Press "4.AD9883 Adjust" to adjust.
- 3) When the OSD of "AD9883 Adjust End" appeared and disappears, The adjustment is completed

### (4) Component & RGB Mode White Balance passivity adjustment

- 1) After inputting the 16 Gray pattern (RGB or Component), check the White Balance status of Low Level (2-6 Gray Level).
- 2) After Pressing the IN-START key of remote control, select the AD9883 and press the ▶ key. - Red Offset, Blue Offset is able to adjust.
- 3) After selecting the adjustment mode with the channel key, adjust Red Offset, Blue Offset value with the volume key to adjust passively white Balance in Low Level.  
adjustment limit : Red Offset - +/-2 step  
Blue Offset - +/-4step

## 9. White Balance & Gamma Adjustment

### (1) Required Test Equipments

- 1) CA100 : 1EA  
-> Measure colour of projecting screen center  
[CA-110(name of model) is possible to measure White Balance and Gamma - leave it 20Cm from screen center]

Follow a measurement machine manual to set CA-100 and CA-110 measurement machine.]

- 2) pattern Generator : 1EA -> 16 step Gray Pattern, 64 step Gray Pattern
- 3) SET Fixation Stand : 1EA
- 4) Remote control : 1EA
- 5) Circuit thing Jig for adjustment (Except Drive Board Assy of adjustment model)  
--- Programmed Digital Board so that the VDP Test Pattern can output white signal by 1 level from 0 to 255 level.

### (2) Equipment composition : Follow <Fig 2>

Adjust at same condition of equipment composition diagram.

### (3) Preparation for Adjustment

Compose the equipment follow Fig.2 and place the set on the fixation stand.

- 1) Select the VDP Test Pattern signal to R1, G1, B1.
- 2) Press the Adjust key to select 62352 and then select RVREF, GVREF, BVREF in adjust mode
- 3) Adjust the luminance of CA100 to be below 0.75Cd by volume key.(Range : 196~ 202)
- 4) Exit adjustment mode by pressing Adjust key.
- 5) Press the IN-START key on the remote control and select the 7050 RGB Set of adjustment mode and then press the ▶ key.
- 6) Check the data value of R contrast, Gcontrast, B contrast is 515, Otherwise set the data 515 by using volume key.

### (4) Adjustment Sequence

- 1) Output 255,255,255 signal of VDP TEST PATTERN, then display maximum WHITE PATTERN on screen.
- 2) Gamma Adjust Mode is display as below when select Gamma adjust by pressing ADJ key on remote control.

#### Gamma Adjust

R:1	G:2	B:3
80	100	100
234	216	216
453	411	387
-----		
724	690	780

\*First column : R adjustment data display

\*Second column : G adjustment data display

\*Third column : B adjustment data display

- 3) Change the 16 Step RGB data to select white balance x:283, y:297(D9300K).[48inch - X:269, Y:294;11000K]
- 4) Measure the luminance with changed data.
- 5) Set the every Gamma data of 16 step to 2.2 on the basis of measured luminance data in 3)clause. (Max luminance \*(n1/16)\*\*2.2)  
--- Max luminance : measured luminance data n1 : every step unit when separating signal level to 16 step
- 6) Output the 240, 240, 240 (15th data in max white output signal level) in the VDP Test Pattern, change the 15th RGB data value to come out white valance x=283, y=297(D9300K) and measured step luminance in 5)clause.
- 7) Output the 224, 224, 224 (14th data in max white output signal level) in the VDP Test Pattern, change the 14th RGB data value to come out white valance x=283, y=294 and measured step luminance in 5)clause.
- 8) As shown above, output the VDP Test Pattern signal (208/192/176/160/144/128/112/96/80/64/48/32/16) and change the RGB data value of each step to come out white balance x=283, y=294 and measured luminance in 3)clause.

## 10. White Uniformity Adjustment

### (1) Required Test Equipments

- 1) Uniformity measuring equipment : Equipment which can measure chromaticity in the whole screen
- 2) Set stand : 1EA
- 3) Remote controller for adjustment : 1EA
- 4) Circuit thing Jig for Adjustment (Except Driver Board Assy of adjustment model)
  - Programmed Digital Board so that the VDP Test Pattern can output white signal by 1level form 0 to 255 level.

### (2) Equipment composition

Compose the equipment as Fig.2

### (3) Preparation for Adjustment

- 1) Composite the equipment as shown Fig.2, and place the set on fixation stand.
- 2) After inputting company channel 13, adjust colour uniformity like Horizontal/ Vertical position adjustment of input signal part adjustment by using remote control for adjustment.
- 3) After pressing IN\_START key on remote control for adjustment, select the adjustment mode 7050 Uniformity.  
<Resister Explanation about uniformity adjustment>
  1. RamCtrl : s/w saving uniformity write order (Do not adjust)
  2. CSHP : Horizontal start point designation --- adjustable
  3. CSVp : Vertical start point designation --- adjustable
  4. CEHP : Horizontal END point designation --- adjustable
  5. CEVP : Vertical END point 6.designation --- adjustable
  6. Mode : uniformity mode select --- adjustable if need

\*\*\* 0 : 221point & 3level ---- default value  
\*\*\* 1 : 221point & 4level  
\*\*\* 2 : 825point & 3level  
\*\*\* 3 : 825point & 4level

7. KHH : Upper 2byte of horizontal line correction coefficient -- Change according to CSHP, CEHP value.
8. KHL : Upper 2byte of vertical line correction coefficient -- Change according to CSHP, CEHP value.  
  
\*\* How to calculate KHH, KHL value  
LCD panel size = 1280 x 720  
Correction Point = 221 point  
--> 17 horizontal points x 13 vertical points  
(16 horizontal segments x 12 vertical points)

- H Coefficient(KHH, KHL)  
--> Calculation method (CEHP-CSHP=1280, Horizontal segment value =16)

H coefficient = 1/(number of pixel intervals between setting in the horizontal direction)

Hcoeff = 1/((1280/16)-1) = 0.012658227

hex (0.012658227 x 2<sup>16</sup>) = 0 x 033D, Hcoeff (hex) = 0 x 033D + 1 = 0 x 33E

9. KVH : Upper 2byte of vertical line correction coefficient -- Change according to CSVp, CEVP value.
10. KVL : Upper 2byte of vertical line correction coefficient -- Change according to CSVp, CEVP value.

- V Coefficient(KVH, KVL)  
Calculation method (CEVP-CSVP=720, Vertical segment value =12)

V coefficient = 1/(number of pixel intervals between setting in the vertical direction)

Vcoeff = 1/((720/12)-1) = 0.016949152

hex (0.016949152 x 2<sup>16</sup>) = 0 x 0456, Vcoeff (hex) = 0 x 0456 + 1 = 0 x 0457

11. RL1H : Upper 9bit of MID2 brightness correction coefficient in R MIN.  
--- Change according to RMIN and RMID2 value.
12. RL1L : Lower 9bit of MID2 brightness correction coefficient in R MIN.  
--- Change according to RMIN and RMID2 value.
13. RL2H : Upper 9bit of MID1 brightness correction coefficient in R MID2.  
--- Change according to RMID2 and RMID1 value.
14. RL2L : Lower 9bit of MID1 brightness correction coefficient in R MID2.  
--- Change according to RMID2 and RMID1 value.
15. RL3H : Upper 9bit of MAX brightness correction coefficient in R MID1.  
--- Change according to RMID1 and RMAX value.  
(use it while adjusting 4 coefficient)
16. RL3L : Lower 9bit of MAX brightness correction coefficient in R MID1.  
--- Change according to RMID1 and RMAX value.  
(use it while adjusting 4 coefficient)

#### <L Coefficient Calculation Method>

Using 3coefficient Level

Assume that the value of R/G/B MIN, MID2,MID1 is 192, 448, 704.

R/G/B MIN = 192  
R/G/B MID2 = 448  
R/G/B MID1 = 704

- L Coefficient(RL1H~BL3L)  
- Calculation method (L1)

L1 coefficient = 1/(brightness level(MID2) - brightness level(MIN))  
L1 coeff = 1/(448 - 192) = 1 / 256 = 0.00390625  
L1 coeff(hex) = hex(0.00390625 x 2<sup>18</sup>) = 0 x 0400  
-> L1H(high 9bit) = b'000000010                    L1L(low 9bit) = b'000000000

- calculate L2, L3 same with L1

L2 coefficient = 1/(brightness level(MID1) - brightness level(MID2))

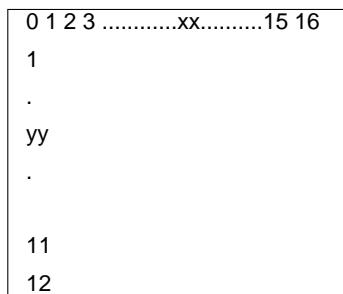
L3 coefficient = 1/(brightness level(MAX) - brightness level(MID1))  
: case of 4 brightness Level

17. GL1H : Upper 9bit of MID2 brightness correction coefficient in G MIN.  
--- Change according to GMIN and GMID2 value.
18. GL1L : Lower 9bit of MID2 brightness correction coefficient in G MIN.  
--- Change according to GMIN and GMID2 value.
19. GL2H : Upper 9bit of MID1 brightness correction coefficient in G MID2.  
--- Change according to GMID2 and GMID1 value.
20. GL2L : Lower 9bit of MID1 brightness correction coefficient in G MID2.  
--- Change according to GMID2 and GMID1 value.
21. GL3H : Upper 9bit of MAX brightness correction coefficient in G MID1.  
--- Change according to GMID1 and GMAX value.  
(use it while adjusting 4 coefficient)
22. GL3L : Lower 9bit of MAX brightness correction coefficient

- in G MID1.  
 --- Change according to GMID1 and GMAX value.  
 (use it while adjusting 4 coefficient)  
 23. BL1H : Upper 9bit of MID2 brightness correction coefficient in B MIN.  
 --- Change according to BMIN and BMID2 value.  
 24. BL1L : Lower 9bit of MID2 brightness correction coefficient in B MIN.  
 --- Change according to BMIN and BMID2 value.  
 25. BL2H : Upper 9bit of MID1 brightness correction coefficient in B MID2.  
 --- Change according to BMID2 and BMID1 value.  
 26. BL2L : Lower 9bit of MID1 brightness correction coefficient in B MID2.  
 --- Change according to BMID2 and BMID1 value.  
 27. BL3H : Upper 9bit of MAX brightness correction coefficient in B MID1.  
 --- Change according to BMID1 and BMAX value.  
 (use it while adjusting 4 coefficient)  
 28. BL3L : Lower 9bit of MAX brightness correction coefficient in B MID1.  
 --- Change according to BMID1 and BMAX value.  
 (use it while adjusting 4 coefficient)  
 29. RLMIN : Setting up the MINIUM Level of R --- Set under 200  
 30. RLMID2 : Setting up the MIDDLE 2nd Level of R ---Middle level when 3coefficient  
 31. RLMID1 : Setting up the MIDDLE 1st Level of R --- Max level when 3coefficient  
 32. RLMAX : Setting up the MAX Level of R  
 33. GLMIN : Setting up the MINIUM Level of G --- Set under 200  
 34. GLMID2 : Setting up the MIDDLE 2nd Level of G ---Middle level when 3coefficient  
 35. GLMID1 : Setting up the MIDDLE 1st Level of G --- Max level when 3coefficient  
 36. GLMAX : Setting up the MAX Level of G  
 37. BLMIN : Setting up the MINIUM Level of B --- Set under 200  
 38. BLMID2 : Setting up the MIDDLE 2nd Level of B --- Middle level when 3coefficient  
 39. BLMID1 : Setting up the MIDDLE 1st Level of B --- Max level when 3coefficient  
 40. BLMAX : Setting up the MAX Level of B  
 41. HVSCAN : Setting up the scan direction while adjusting uniformity - Do not adjust  
 42. Test Mode : uniformity adjustment test - Do not adjust

#### (4) Adjustment Sequence

- 1) Adjust the screen coordinates as shown below.



<Screen division diagram for uniformity adjustment>

- 2) Output the VDP TEST PATTERN signal correspond to the Max value.  
 Read the white coordinates and communicate 3 line with ET7050 IC through measurement equipment of optics.

- Adjust screen coordinates data to adjust the color uniformity of max point.  
 At this time, make sure that deviation is +5~-5% and standard is color coordinate of center.  
 3) Output the VDP TEST PATTERN signal correspond to the MID value.  
 Read the white coordinates and communicate 3 line with ET7050 IC through measurement equipment of optics.  
 Adjust screen coordinates data to adjust the color uniformity of mid point.  
 At this time, make sure that deviation is +5~-5% and standard is color coordinate of center.  
 4) Output the VDP TEST PATTERN signal correspond to the MIN value.  
 Read the white coordinate and communicate with ET7050 IC through measurement equipment of optics.  
 Adjust screen coordinates data to adjust the color uniformity of miner point.  
 At this time, make sure that deviation is +5~-5% and standard is color coordinate of center.  
 5) White the miner, middle, maximum data for each point to confront to each MICOM address.

## 11. Brightness Adjustment of Main/Sub Screen

Operate this adjustment when the brightness of Main/Sub screen is different.

- (1) Receive RF 06Ch. to Main/Sub screen in twin picture.
- (2) Let the screen clearly.
- (3) Check the "US06CH" with naked eyes in 06Ch. pattern and if there is difference, adjust like this.  
   - The field and the letters are distinguished.
- (4) Adjusting Main screen
  - 1) Press the "IN Start" key on R/C for adjustment to select VPC3230\_Main.
  - 2) Adjust to Luma Contrast of adjustment item with Channel key. (initial value 32)
- (5) Adjusting Sub screen
  - 1) Press the "IN Start" key on R/C for adjustment to select VPC3230\_Sub.
  - 2) Adjust to Luma Contrast of adjustment item with +/- key. (initial value 32)

## 12. Lamp Replace

Use it when the Lamp time is '0'.

At the same time press the 'OK' key and 'Mute' key during 5 seconds.

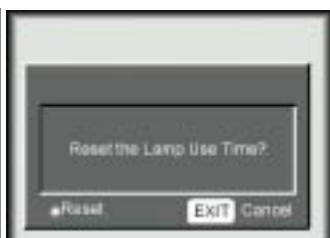
Displaying the OSD as <Fig.8>, press the Volume +(▶)

Displaying the OSD as <Fig.9>, press the 'OK' key to reset the lamp use time.

Press the IN-START key on R/C for adjustment to select Lamp replace and adjust with volume key.



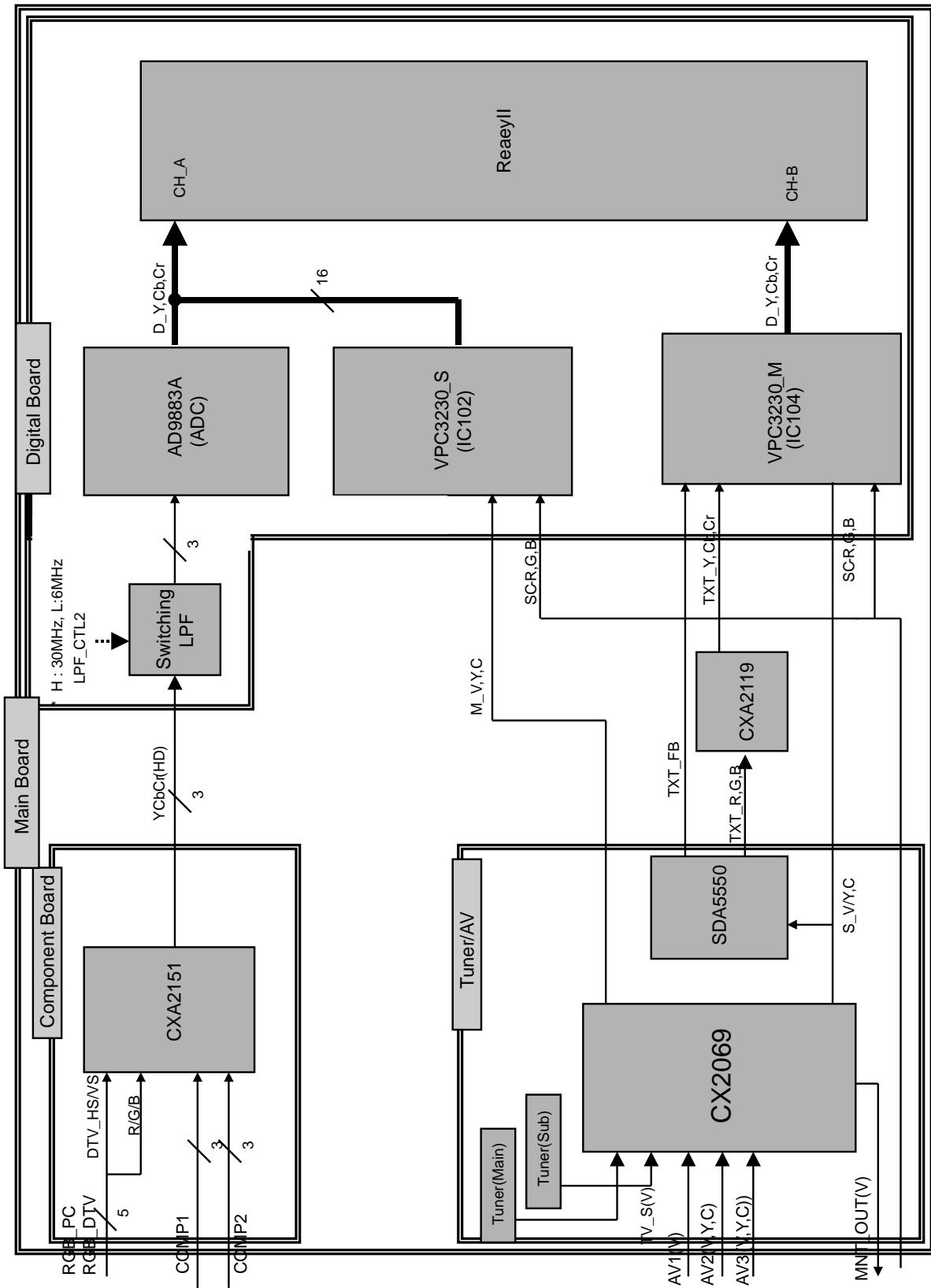
<Fig8. Lamp Use Time Reset Menu>



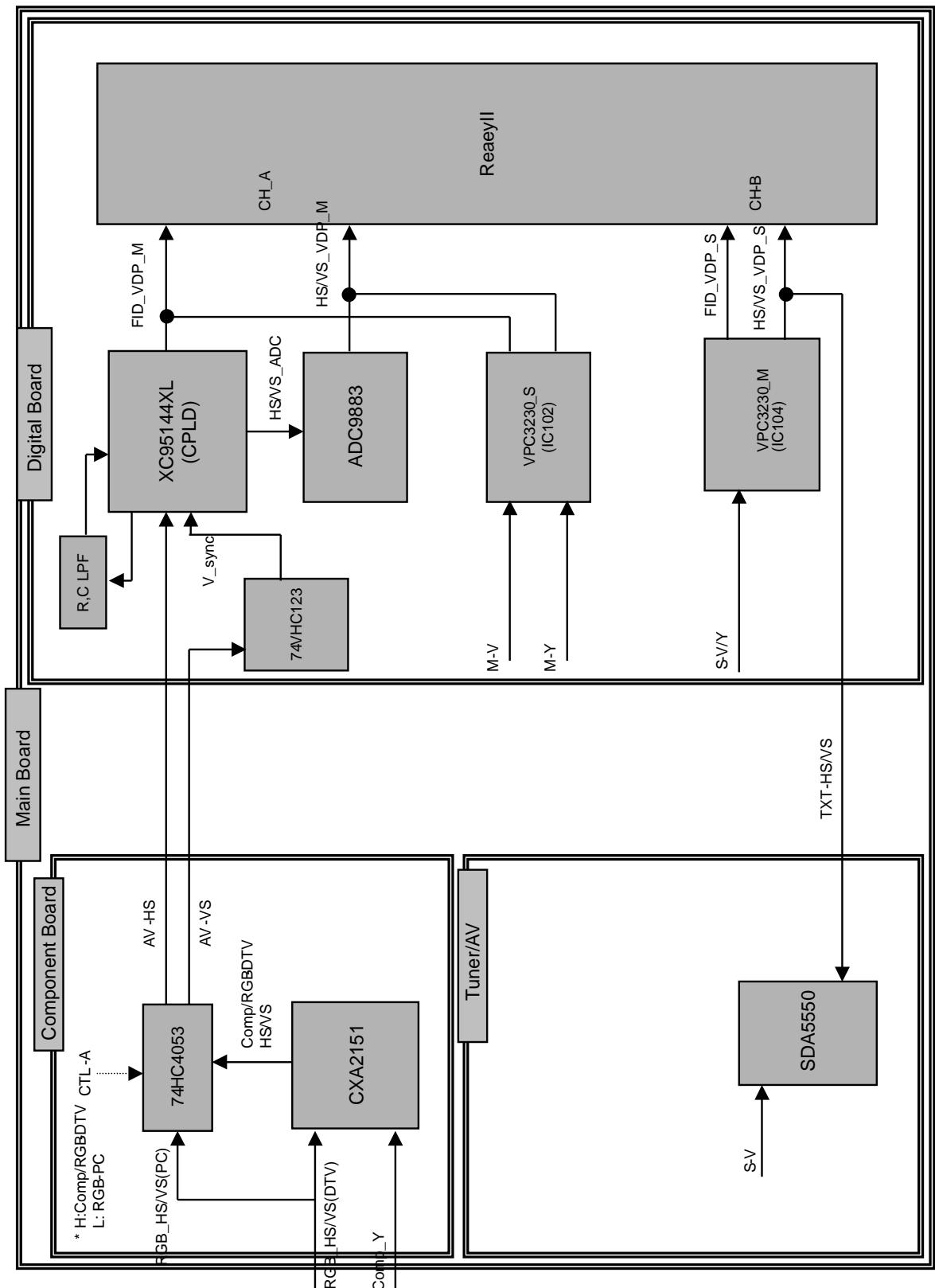
<Fig9. Reset Confirm>

# BLOCK DIAGRAM

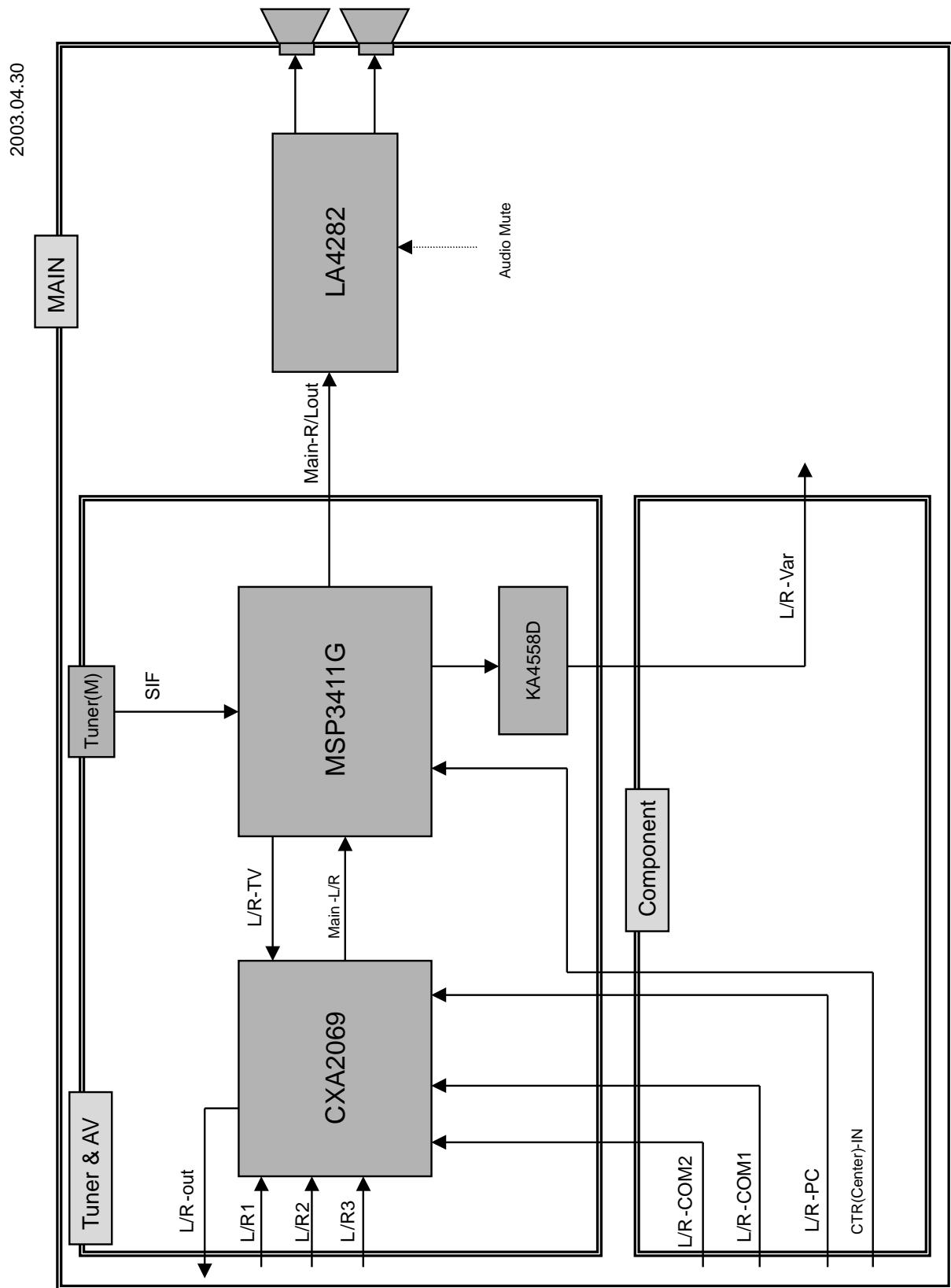
## 1. Video Input Path



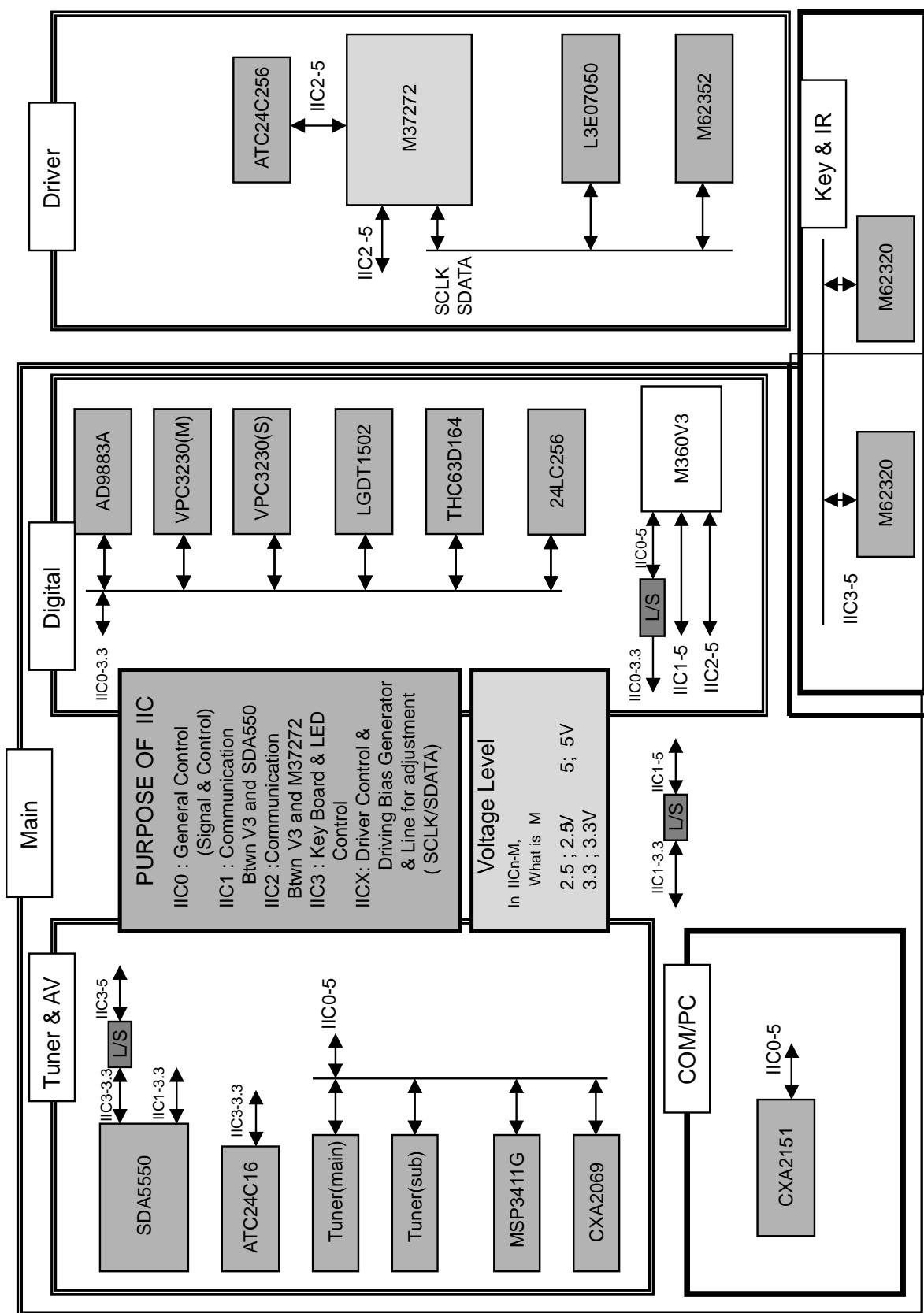
## 2. Syns I/O Path



### 3. Audio Input Path

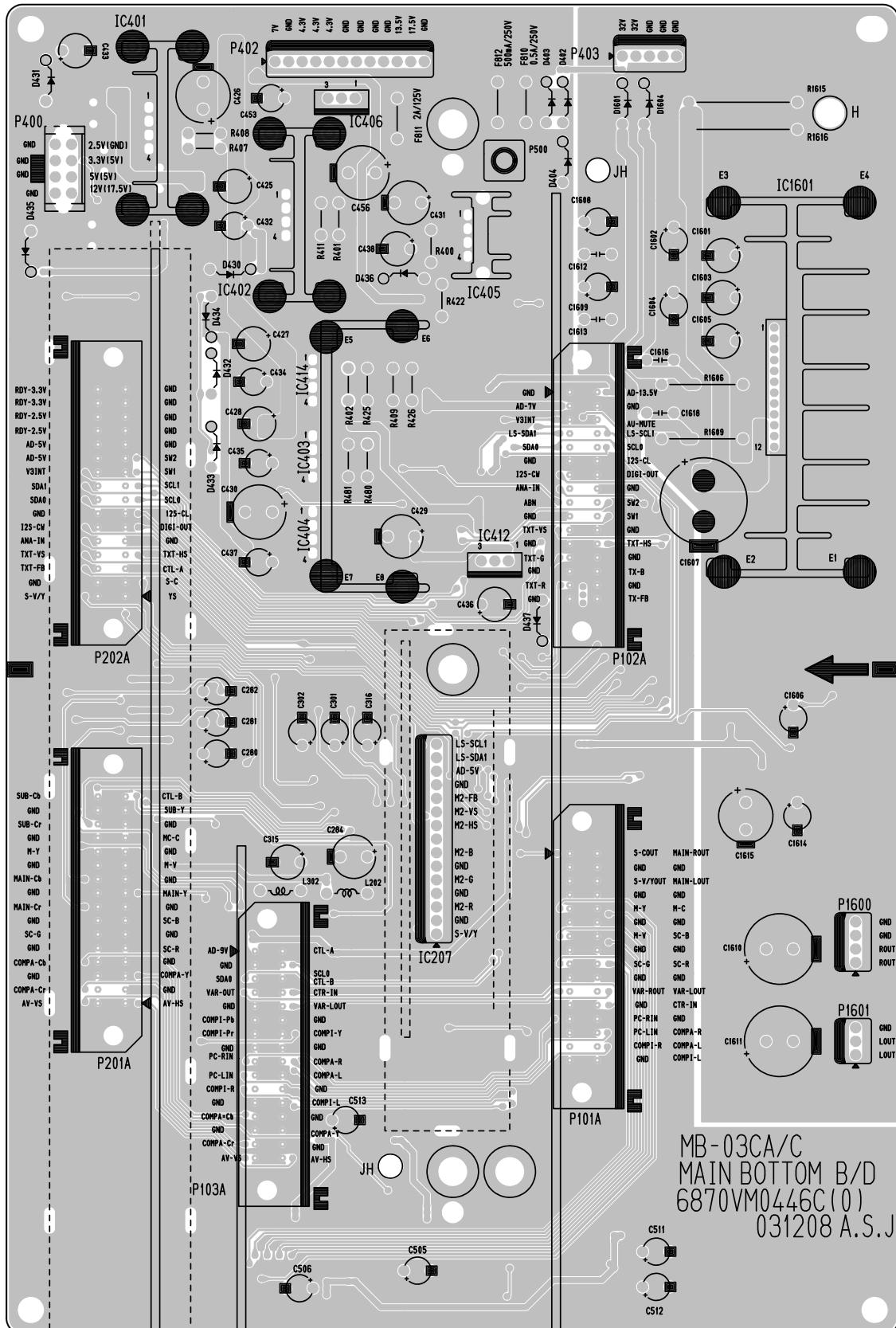


#### 4. Control Signal Connection Diagram- IIC

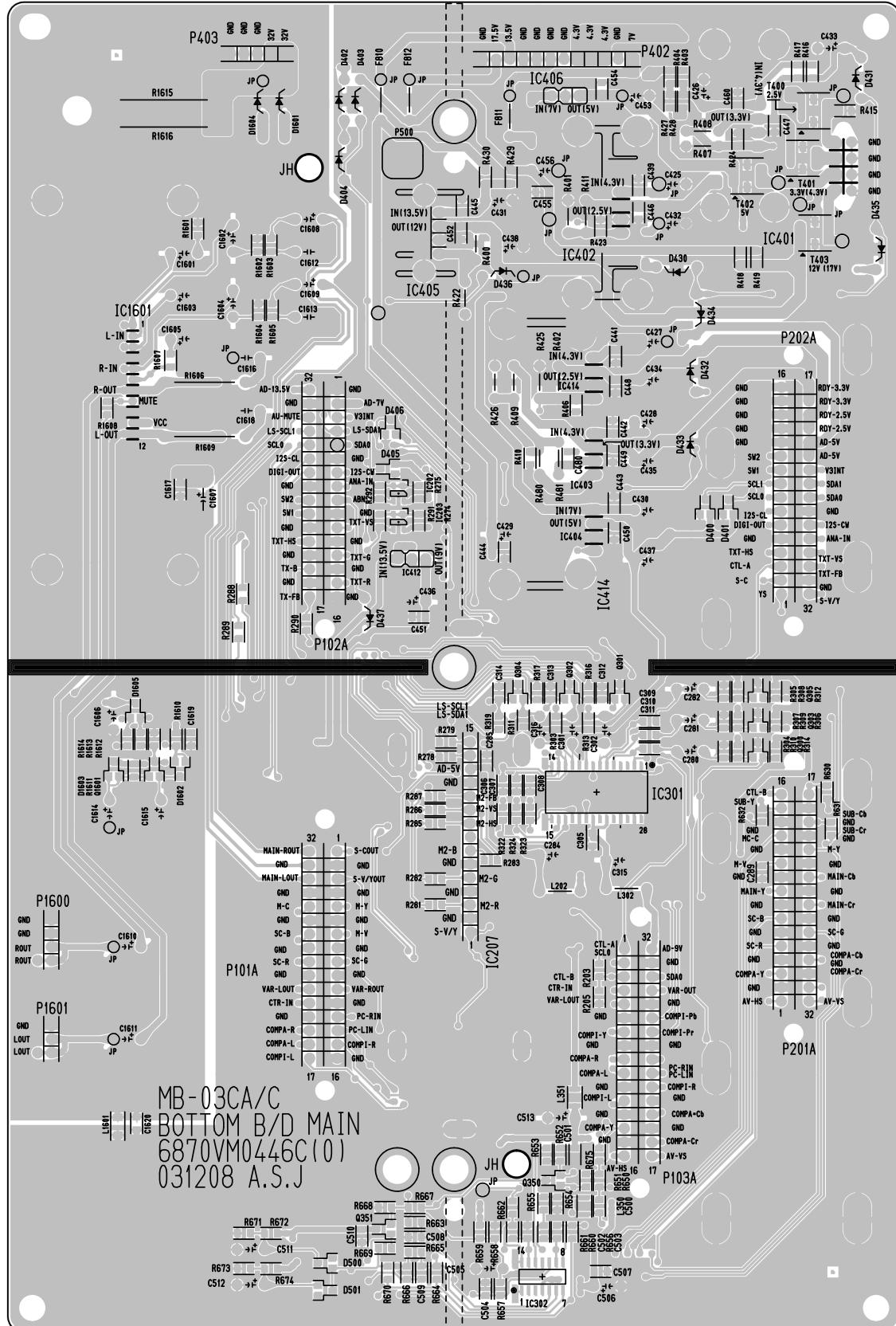


# PRINTED CIRCUIT BOARD

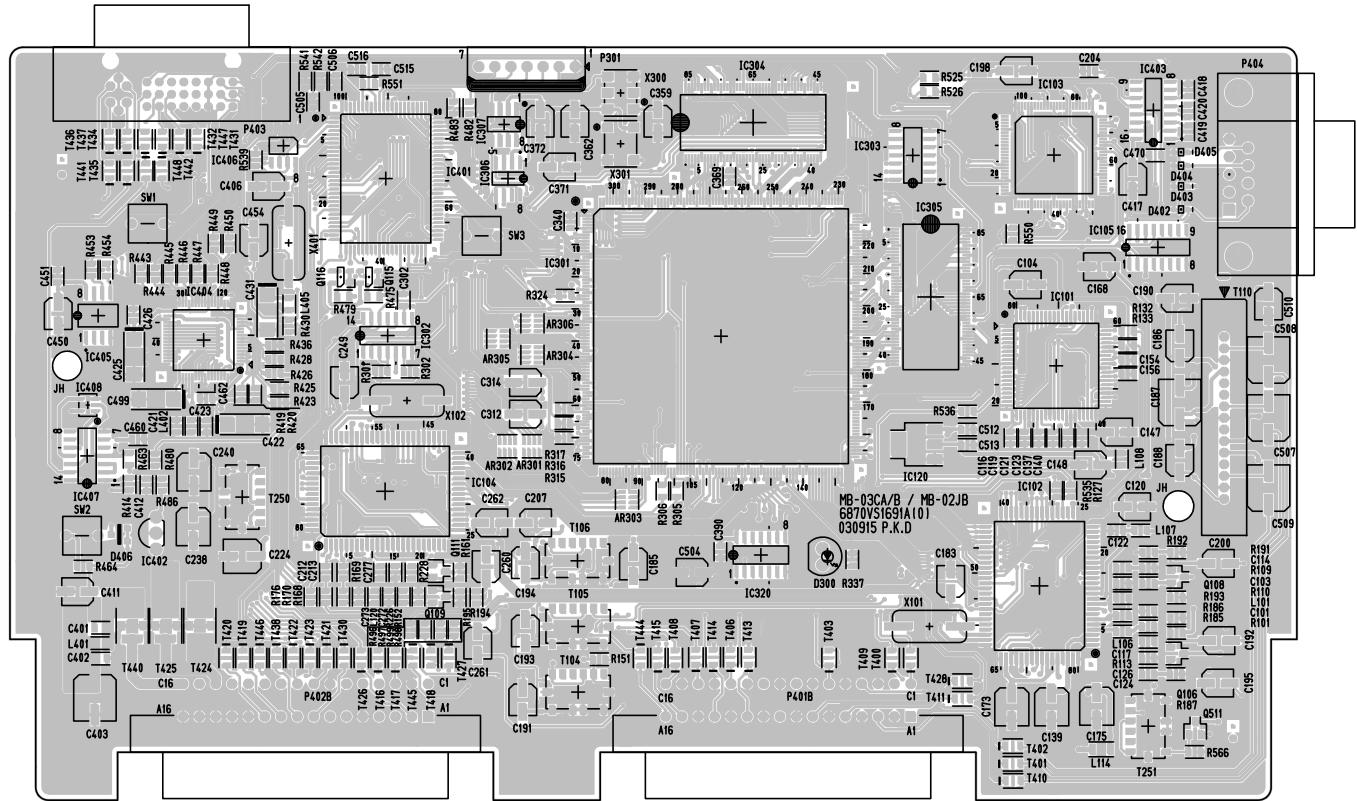
## MAIN (TOP)



## MAIN (BOTTOM)



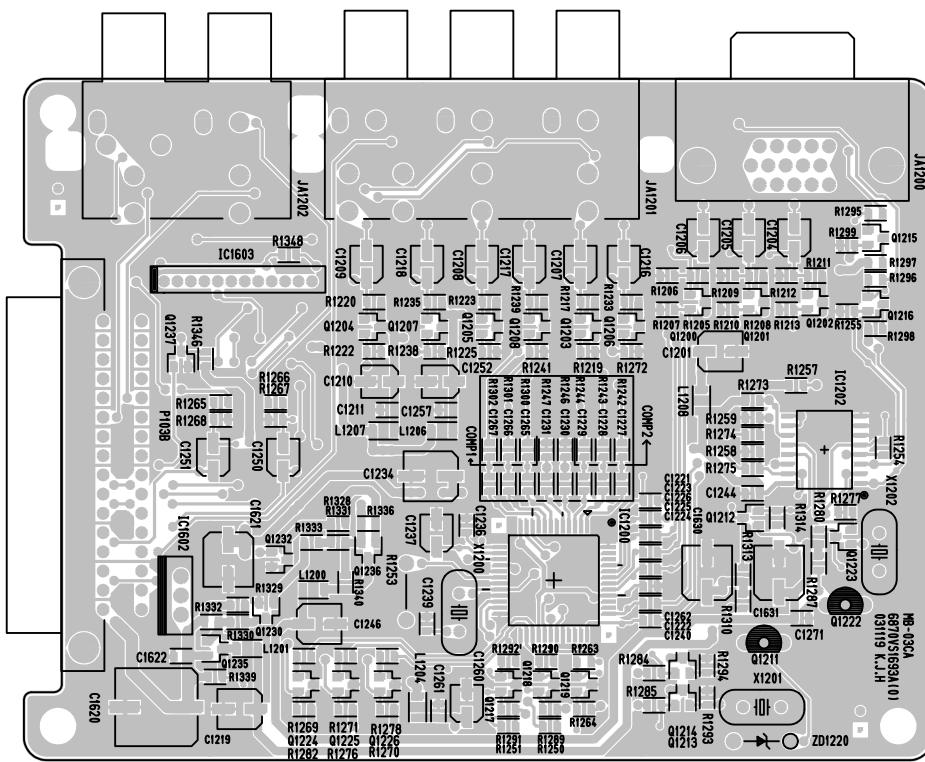
## DIGITAL(TOP)



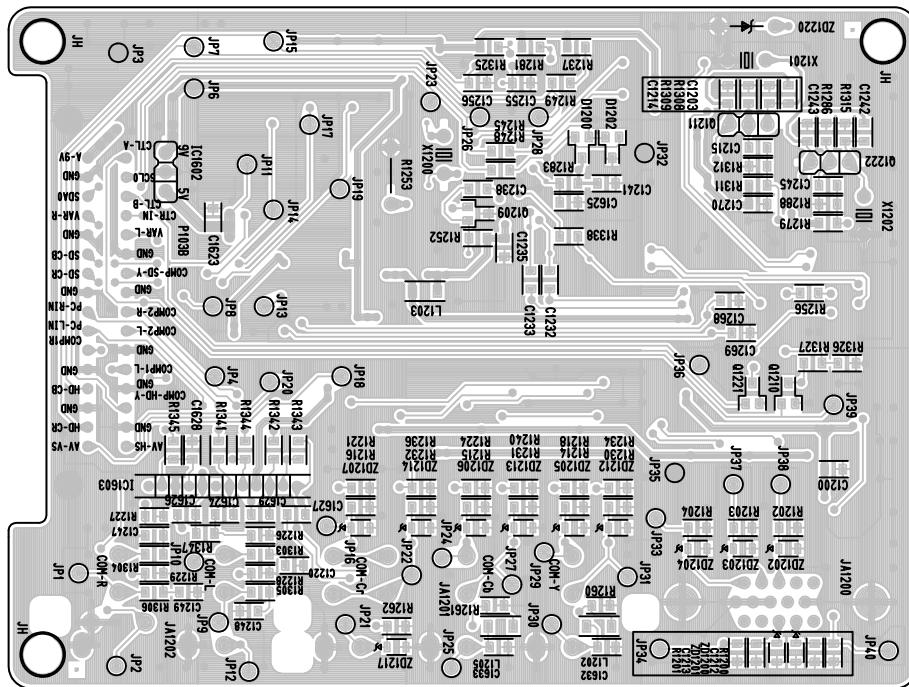
## DIGITAL(BOTTOM)



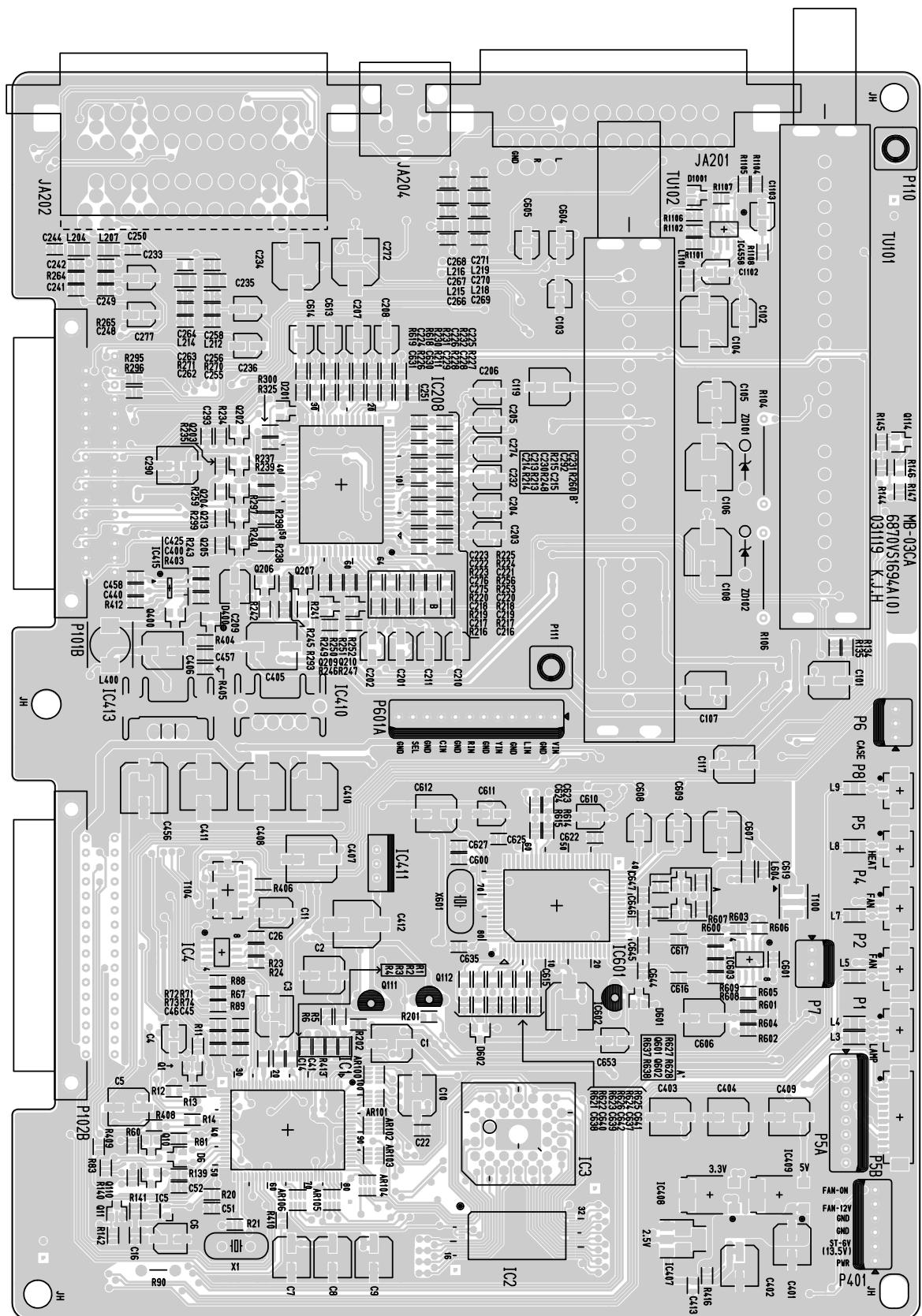
## COMPONENT(TOP)



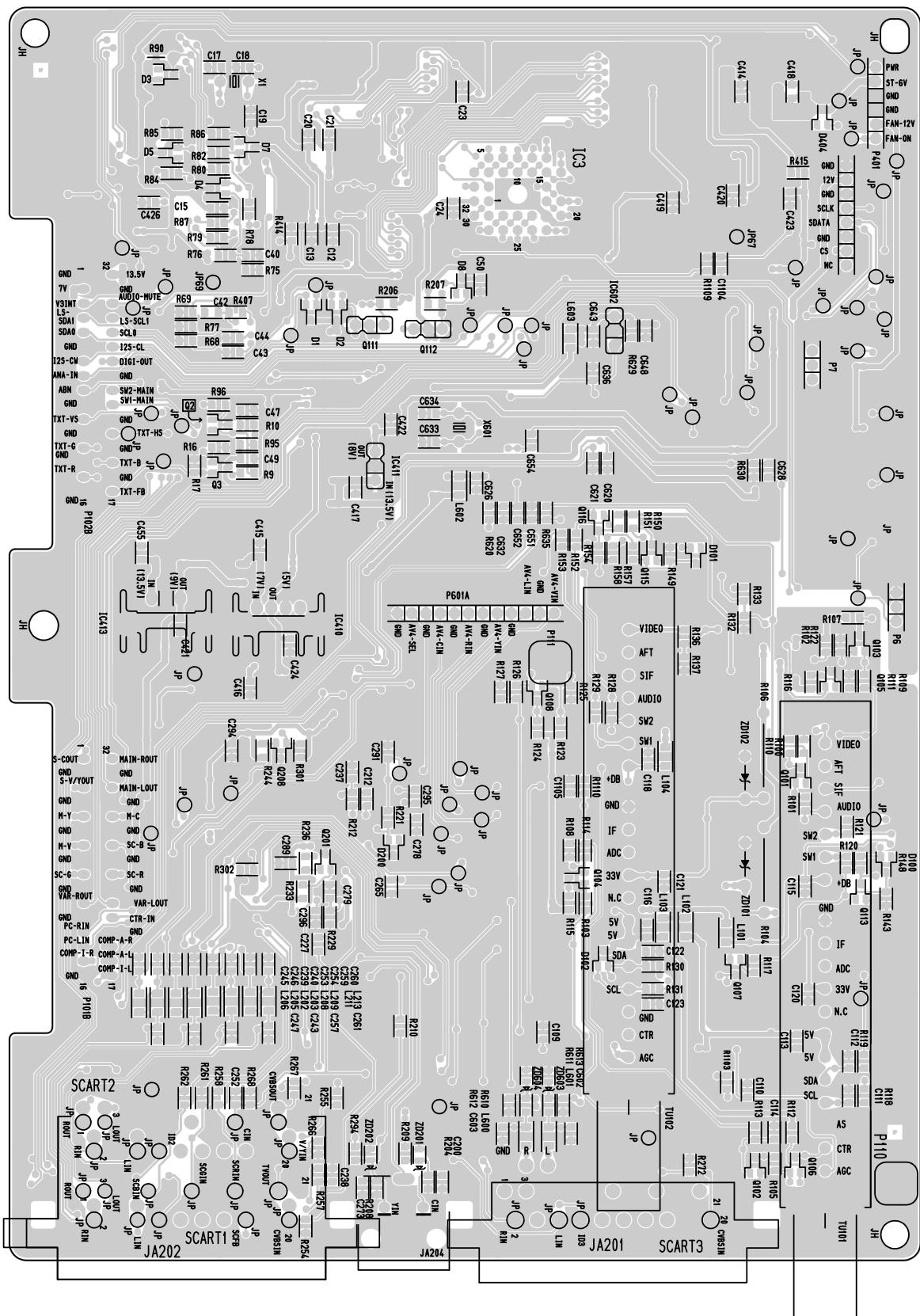
## COMPONENT(BOTTOM)



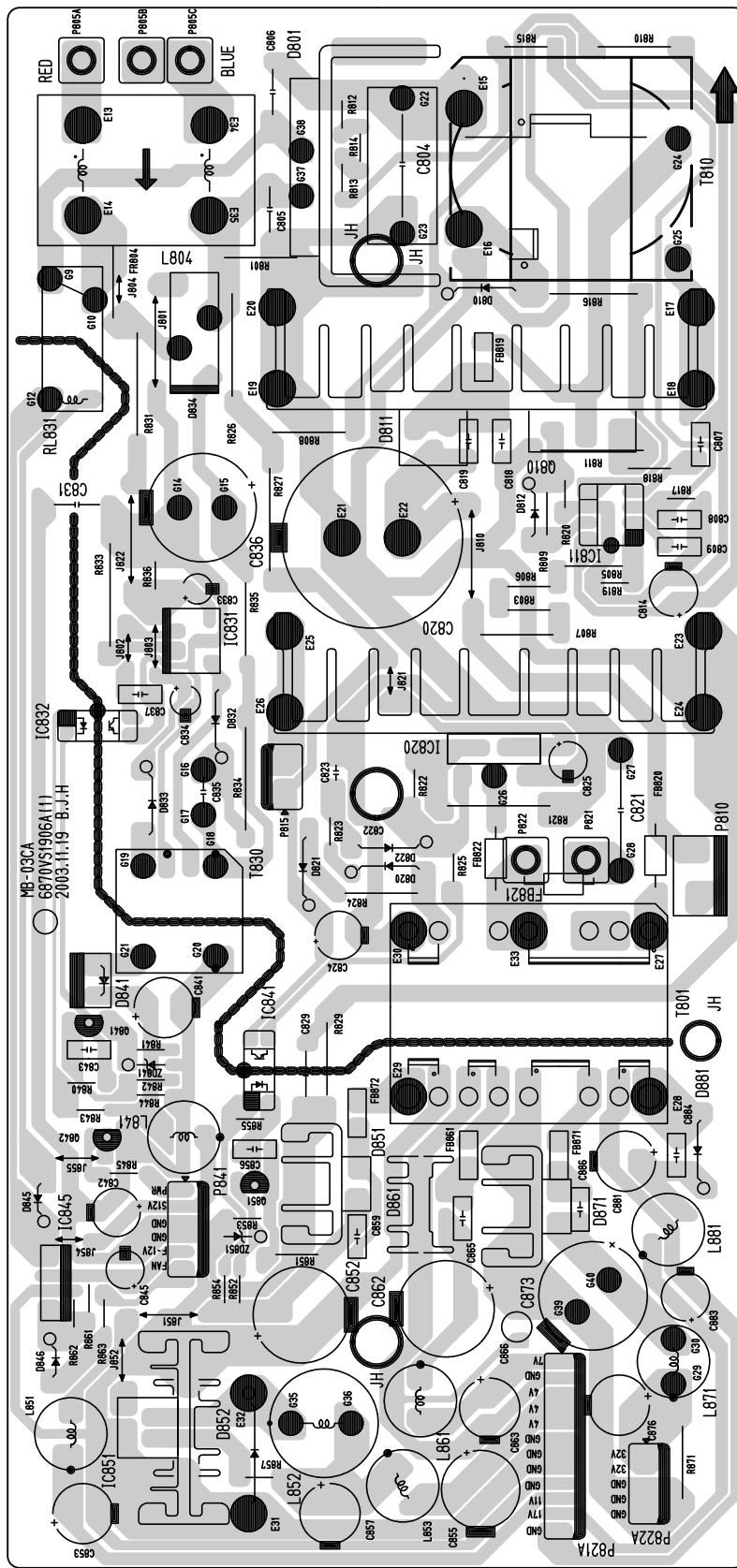
## TUNER



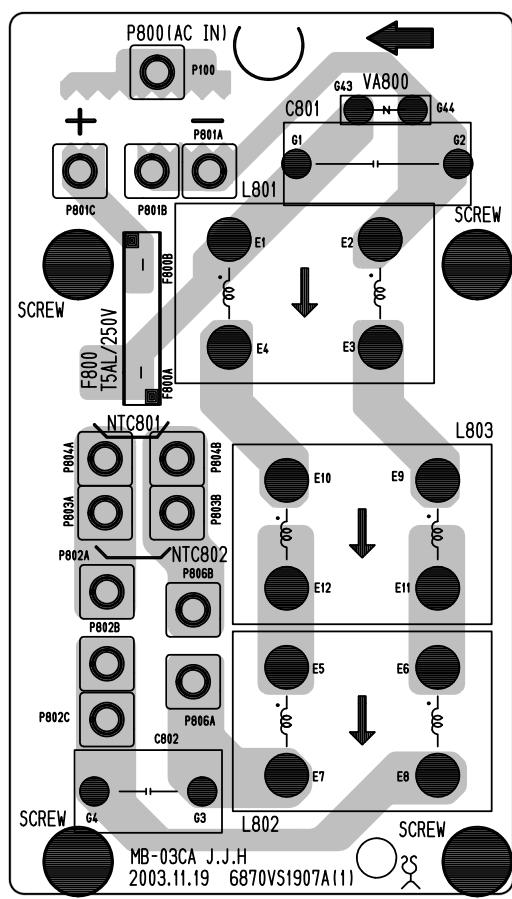
## TUNER(BOTTOM)



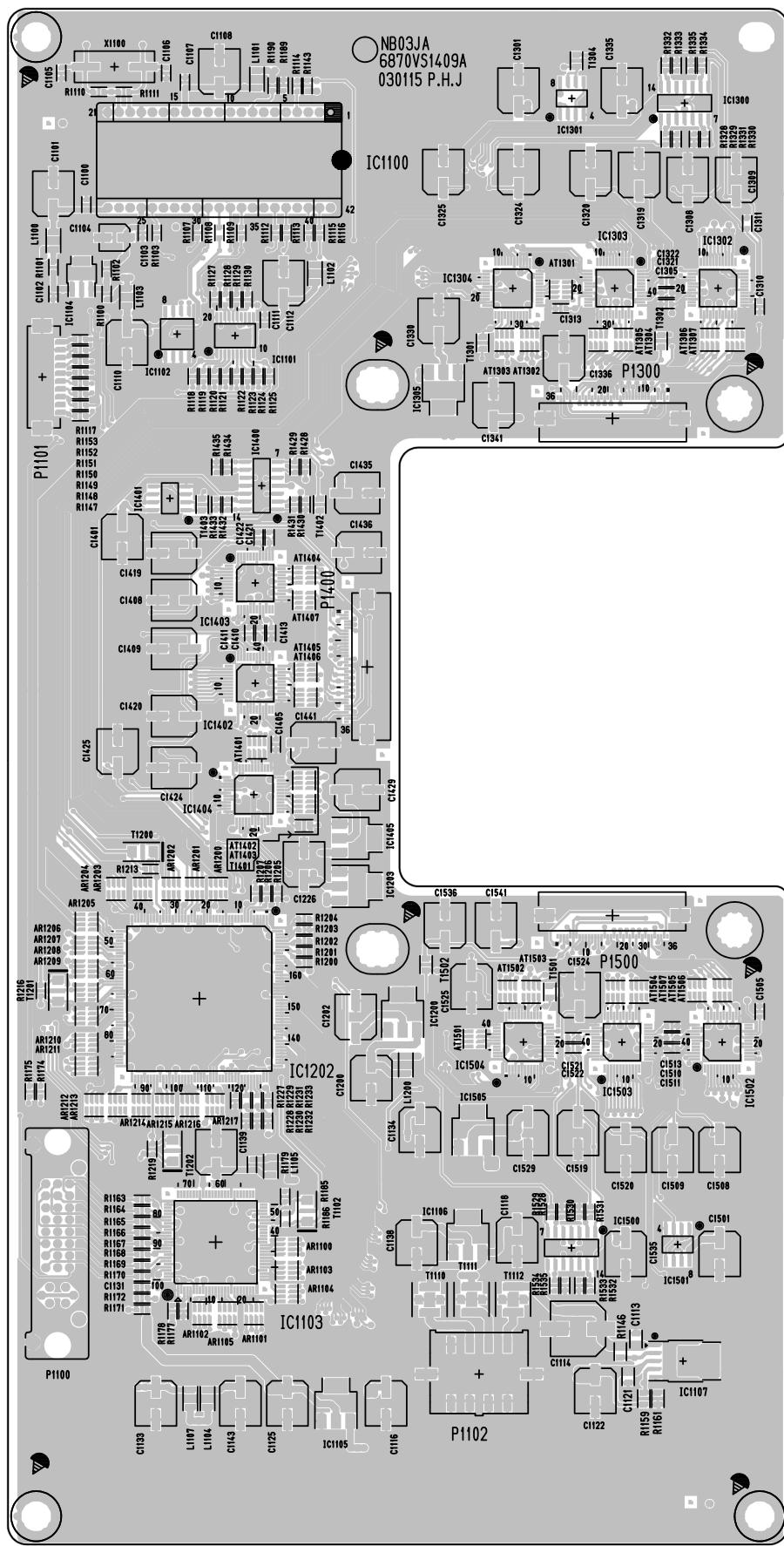
## SMPS



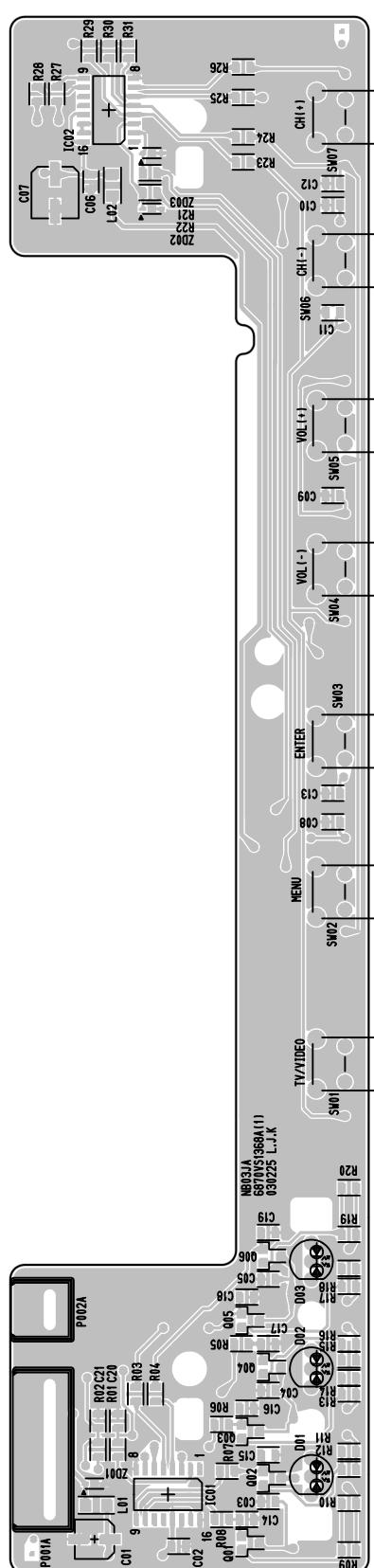
## AC INPUT



## DRIVER(TOP)

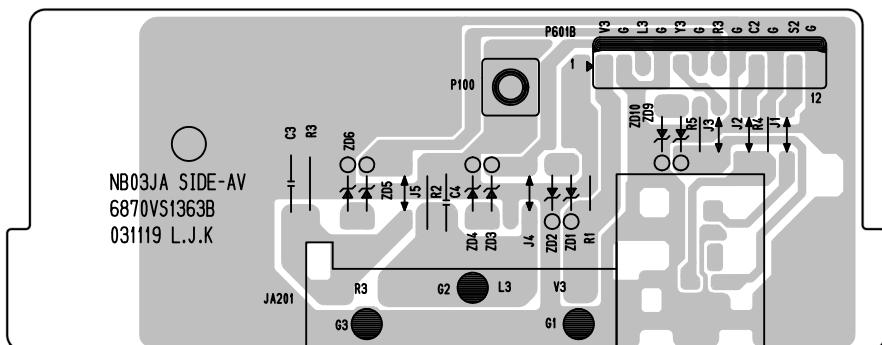


## CONTROL(TOP)

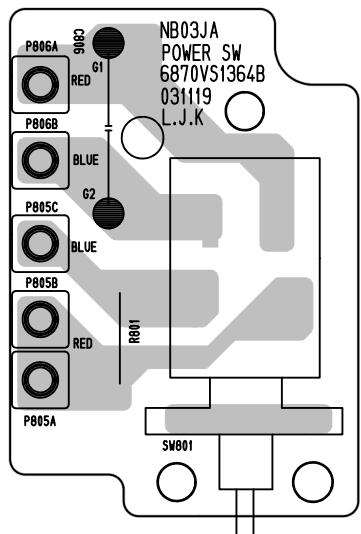




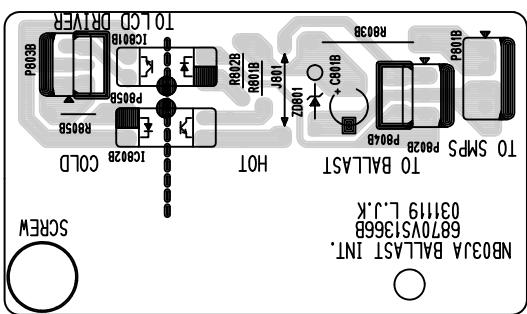
## SIDE A/V



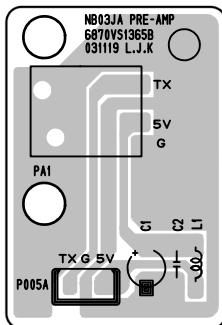
## POWER S/W



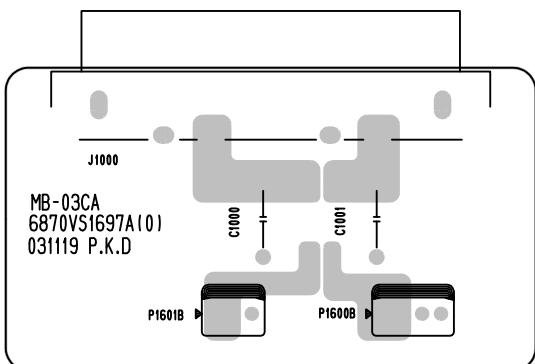
## BALLAST



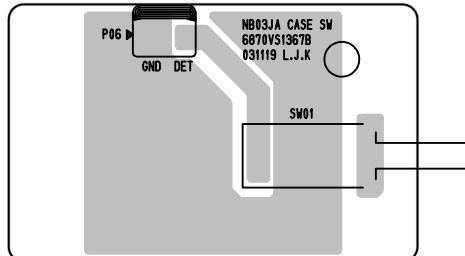
## PRE-AMP



## SPEAKER

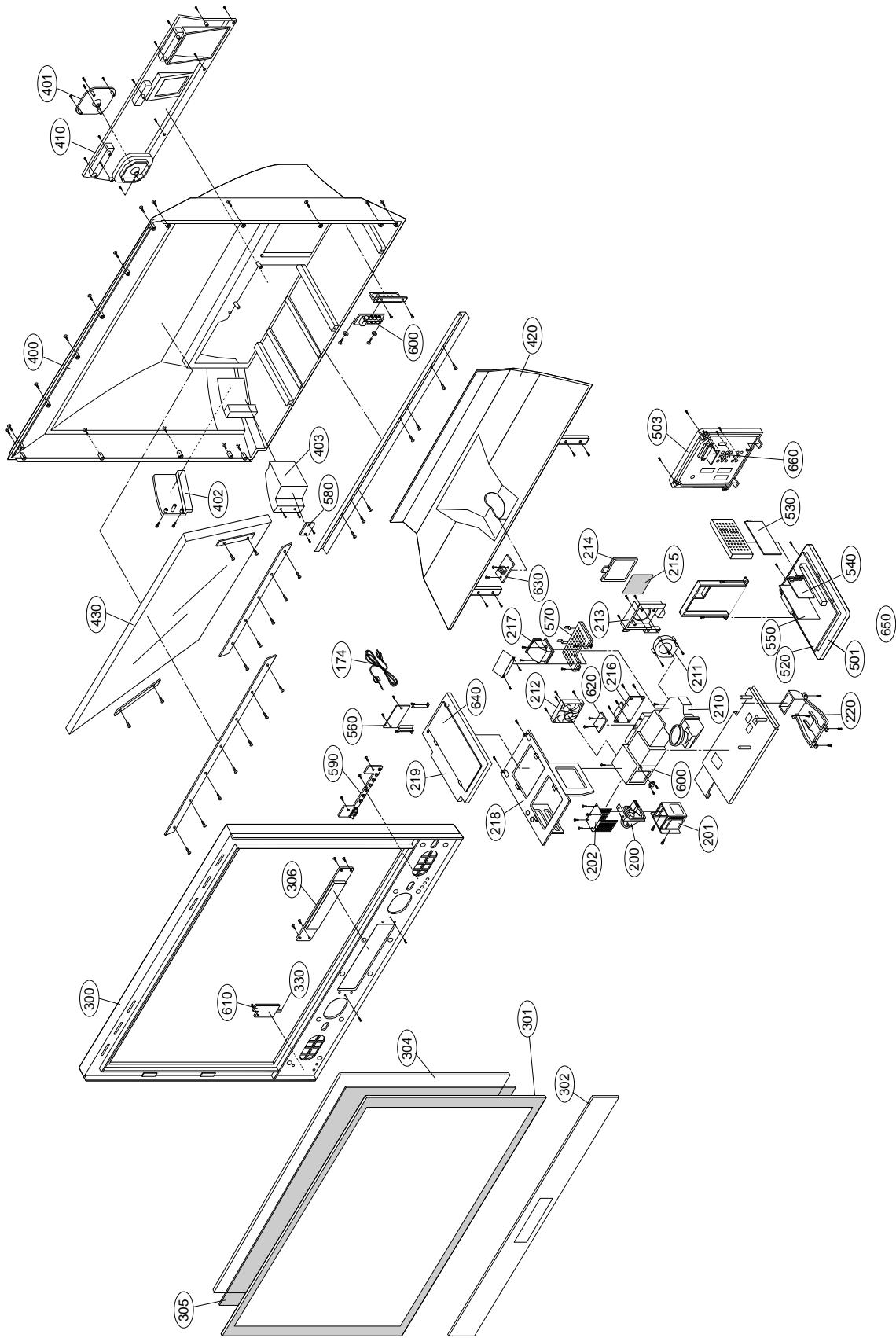


## CASE S/W



# **MEMO**

## EXPLODED VIEW



# EXPLODED VIEW PARTS LIST

No.	Part No.	Description
174	6410VUH004A	POWER CORD, UL/CSA3000MM 3P HUG BLACK VOLEX CSA 3000MM HUG BLACK 500MH 7A
201	4810V00710A	BRACKET, NON RN-48SZ40 NON NON LAMP
202	4980V00620A	SUPPORTER, NON AL LAMP COVER RN-48SZ40H
210	3680V00067A	LENS, RICOH OPTICAL ENGINE RN-48SZ40 .
211	5900V11001D	FAN,DC, B1232S12B2-LG DONGYANG 120*120*30 12V 950+-10 RPM 8-14V 300MM
212	5900V09005A	FAN,DC G9225S12B2-RG DONGYANG 92*92*25 12V/140MA 1650+-10 RPM 8-14V 600MM
213	4810V00717A	BRACKET, SUPPORTER RN-48SZ40 NB03JA ABS, AF-303S FAN
214	3550V00281A	COVER, NON RN-48SZ40 ABS, AF-303S INLET FAN
215	4850V00012M	CUSHION, FILTER 109*109*2 POLYURETHAN RN-48SZ40
216	6913V00002B	BALLAST, EUC-100L/100V PHILIPS RN48SZ40H FOR LAMP CABLE 280MM
217	4810V00718B	BRACKET, NON RN-48SZ40H NB03JA PP LAMP HOUSE
218	4980V00671A	SUPPORTER, SMPS SECC RN-48SZ40 SMPS CHASSIS
219	3210V00166A	FRAME, HIPS 40AF RN-48SZ40 MAIN CHASSIS
220	4810V00714A	BRACKET, DUCT RN-48SZ40 NB03JA ABS, AF-303S COMBO GUIDE
300	3091V00475A	CABINET ASSEMBLY, RN-48SZ40 STEREO NB03JA MIDDLE
301	3211V00107B	FRAME ASSEMBLY, ASSY RZ-48SZ40RB TOTAL
302	3508V00399D	DECORATION, FRONT ACRYL MIRROR HALF RT-48SZ40RB
304	3351V00006A	SCREEN ASSEMBLY, TOPPAN NON RN-48SZ40H 1094*617*3.15 GAIN 4.7
305	3790V00702B	FILTER(MECH), RZ-48SZ40RB LG LOGO
306	3720V00237C	PANEL, ASSY RZ-48SZ40RB VFD 16ML09HA1 MD PJT
310	5020V00751A	BUTTON, CONTROL RN-48SZ40 ABS, HF-380 7KEY .
330	5020V00655A	BUTTON, POWER RN-52SZ10H ABS 1 KEY SET
400	3809V00324E	BACK COVER ASSEMBLY, RZ-48SZ40RB NON UPPER
402	3550V00278C	COVER, LAMP RZ-48SZ40RB ABS, AF-303S SIDE
403	3110V00257A	CASE, NON RN48SZ40H PC-ABS LAMP DUCT
410	3809V00325F	BACK COVER ASSEMBLY, RT-48SZ40RB NON LOWER
420	3550V00277A	COVER, MIDDLE RN-48SZ40 ABS, AF-303S DUST
430	5018V00054A	MIRROR, LCD SSC(SAMSUNG CORNING) NON LCD48 MIRROR ..
501	3210V00165B	FRAME, ABS, AF-303S RN-48SZ40H MAIN CHASSIS
503	4810V00713H	BRACKET, REAR AV RT-48SZ40/41RB MB03CA ABS, AF-303S FOR AUSTRALIA
520	6871VMMMS11A	PWB(PCB) ASSEMBLY,MAIN MB-03CA RT-48SZ40RB AUS MAIN BOTTOM M/I
530	6871VSMX90E	PWB(PCB) ASSEMBLY,SUB DIGITAL MB03CA RT-48SZ40RB AUS DIGITAL M/I
540	6871VSMX91C	PWB(PCB) ASSEMBLY,SUB MB03CA RT-48SZ40RB AUS COMP M/I
550	6871VSMX92D	PWB(PCB) ASSEMBLY,SUB TUNER MB03CA RT-48SZ40RB AUS TUNER M/I
560	6871VPMA38E	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA RT-48SZ40RB AUS ACINPUT M/I
570	6871VSMX89A	PWB(PCB) ASSEMBLY,SUB MB03CA RZ-48SZ40RB DRIVER MAIN ASSY
580	6871VSME03C	PWB(PCB) ASSEMBLY,SUB S/W MB03CA RZ-48SZ40RB CASE S/W
590	6871VSME01A	PWB(PCB) ASSEMBLY,SUB NB03JA CONTROL RN-48SZ40H
600	6871VSNA02B	PWB(PCB) ASSEMBLY,SUB MB03CA RT-48SZ40RB AUS SIDE-AV M/I
610	6912V00006B	LAMP,HIGH PRESSURE MECURY UHP100W 1.3 PHILIPS 100V 1A RN48SZ40H CABLE 160MM,130MM
610	6871VSN222B	PWB(PCB) ASSEMBLY,SUB PSW MB03CA RZ-48SZ40RB POWER S/W
620	6871VSME02C	PWB(PCB) ASSEMBLY,SUB INTER MB03CA RZ-48SZ40RB BALLAST INT
630	6871VSN221C	PWB(PCB) ASSEMBLY,SUB P/AMP MB03CA RZ-48SZ40RB PRE-AMP
640	6871VPMA36G	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA RT-48SZ40RB AUS SMPS M/I
660	6871VSNA01A	PWB(PCB) ASSEMBLY,SUB SPK MB03CA SUB PCB ASSY

## REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
<b>IC</b>					
IC01	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP	IC401	0ICTMMI038B	COPY M306V3FGFP MITSUBISHI 100P QFP
IC02	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP I/O	IC401	0ISH052100C	PQ05RD21 4SIP ST REGULATOR -
IC1	0ISM555000A	SDA5550 MQFP100 BK MICOM TXT MC006A	IC402	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC101	0IMCRAD002A	AD9883AKST-110 ANALOG DEVICE 80P TQFP	IC403	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
IC102	0IIT323000E	VPC3230D C5 80P QFP	IC403	0IMCRKE006B	KIA278R33PI KEC TO-220IS 4P
IC103	0IMCRXL003A	XC95144XL-10TQ100C 3.3V XILINX TQFP 100P	IC404	0IMCRTI019A	TFP410 TEXAS INSTRUMENT 64P TQFP
IC104	0IIT323000E	VPC3230D C5 80P QFP	IC404	0ISH052100C	PQ05RD21 4SIP ST REGULATOR
IC105	0IFA741230A	DM74LS123MX 16SOP TP	IC405	0IMP242560A	24LC256-I/SM 8P,SOP TP
IC1101	0IMI623520B	M62352GP 20P SSOP TP 8BITS 12CH D/A	IC406	0IKE780500Q	KIA7805API 3P TO-220 ST
IC1102	0IAL242561B	AT24C256W-10SI-2.7V 8P	IC407	0IPRPFA007A	RC1117S25T FAIRCHILD SOT-223
IC1103	0IPRPTI001A	TFP401PZP TEXAS INSTRUMENT 100,TQFP	IC407	0IPH741400E	74HC14D 14SOP TP
IC1104	0IKE704200J	KIA7042AF SOT-89 TP	IC408	0IMCRKE008A	KIA78D33F KEC 3P DPAK
IC1105	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC409	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK
IC1106	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC410	0ISH052100C	PQ05RD21 4SIP ST REGULATOR
IC1107	0IPRPSH001A	PQ20WZ1U SHARP 5P SC63	IC411	0IKE780800J	KIA7808API 3 ST REGULATOR .
IC120	0ISJ111733A	EZ1117CST-3.3 3P,SOT-223	IC412	0IKE780900M	KIA7809API TO220 ST 3P 9V
IC1200	0IMCRSO008A	CXA2151Q SONY 48P QFP	IC413	0IKE780900M	KIA7809API TO220 ST 3P 9V
IC1200	0IPRPFA007A	RC1117S25T FAIRCHILD SOT-223	IC414	0ISH302122A	PQ30RV21 TO-220
IC1202	0IMCRSB010A	L3E07050K0A SEIKO EPSON 176QFP	IC415	0ITK118100B	TK11840L 8P SOT23L
IC1202	0IMO744053B	MC74HC4053DW 16SOP 3*2CH.MUX	IC4558	0ISS455880A	KA4558D 8SOP OP AMP
IC1203	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC5	0IMX811000A	MAX811REUT-T 128QFP
IC1300	0IMO324000C	LM324D SO-14 TP OP AMP	IC601	0IMCRMN001C	MSP3411G QA B8 V3 MICRONAS 80P QFP
IC1301	0IMCRET001A	EL2244CS-T13 ELANTEC 8P SO	IC602	0IFA753307A	KA75330ZTA(KA7533ZTA) 3P,TO-92 TP
IC1302	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC603	0ISS455880A	KA4558D 8SOP OP AMP
IC1303	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC801B	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1304	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	IC802B	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1305	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC811	0IMCRON002A	MC33262P ON SEMI 8P DIP ST
IC1400	0IMO324000C	LM324D SO-14 TP OP AMP	IC820	0ISK666813A	STR-F6668B(LF1352) 5PIN
IC1401	0IMCRET001A	EL2244CS-T13 ELANTEC 8P SO	IC831	0ISK615311B	STR-G6153T(LF1101) 5PIN
IC1402	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC832	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1403	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC841	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1404	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	IC845	0ISS781200H	KA78R12 4P,TO-220F
IC1405	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC851	0IMO257633A	LM2576TV-3.3 5PIN ST
IC1500	0IMO324000C	LM324D SO-14 TP OP AMP	Q111	0IFA270000A	2N7000TA TO-92, 3P TP
IC1501	0IMCRET001A	EL2244CS-T13 ELANTEC 8P SO	Q112	0IFA270000A	2N7000TA TO-92, 3P TP
<b>TRANSISTOR</b>					
IC1502	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC202	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC1503	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC203	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC1504	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	Q01	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC1505	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	Q02	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC1601	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP	Q03	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC1602	0IKE780500Q	KIA7805API 3P TO-220 ST	Q04	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC1603	0ISA722200A	LA7222 (1280 AUDIO)	Q05	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC208	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W	Q06	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC301	0ICTMLG003C	LGDT1502M LG IC 304P QFP	Q10	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC302	0ITI740000Q	SN74LVC00AD 14SOP	Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC303	0ITI740000Q	SN74LVC00AD 14SOP	Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC304	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P TSOP	Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC305	0IMMRHY033A	HY57V643220C(LT-6 HYNIX 86P TSOP	Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC306	0IIC271600A	MK2716STR 8P,SOP TP	Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC320	0IPH741400E	74HC14D 14SOP TP	Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC4	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P SOIC	Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q207	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q208	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q109	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q210	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q213	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q3	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q301	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q302	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q304	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q400	0TRKE80038A	KTC3552T-RTK KEC R/TP SOT-23F 50V 3A
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q501	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q510	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q511	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR	Q601	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q116	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q602	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q116	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR	Q810	0TF283700AA	2SK2837 BK TOSHIBA 500V 20A TO3P
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q841	0TR945009AA	KSC945C-Y SAMSUNG TP TO92 50V 150MA
Q1201	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q842	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
Q1202	0TR387500AA	CHIP 2SC3875S(ALY) KEC	Q851	0TR945009AA	KSC945C-Y SAMSUNG TP TO92 50V 150MA
Q1203	0TR387500AA	CHIP 2SC3875S(ALY) KEC	<b>DIODE</b>		
Q1204	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D01	0DL200000CA	LED,SAM5670(DL-2LRG) BK Y-GREEN -
Q1205	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D02	0DL200000CA	LED,SAM5670(DL-2LRG) BK Y-GREEN -
Q1206	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D03	0DL200000CA	LED,SAM5670(DL-2LRG) BK Y-GREEN -
Q1207	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1208	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D100	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1209	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D1001	0DD226239AA	CHIP KDS226 SOT-23
Q1210	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA	D101	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1211	0TR127009AA	KTA1270-Y(KTA562TM) KEC TP TO92 50V 100MA	D102	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1212	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1200	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1213	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1202	0DD181009AB	KDS181 TP KEC - 85V - 300MA
Q1214	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1602	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1215	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1603	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1216	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D1605	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1217	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D2	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1218	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D200	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1219	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D201	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1221	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA	D3	0DD226239AA	CHIP KDS226 SOT-23
Q1222	0TR127009AA	KTA1270-Y(KTA562TM) KEC TP TO92 50V 100MA	D300	0DL112100AA	LED,SR3411(DL-11S2RN1) BK RED
Q1223	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D4	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1230	0TR387500AA	CHIP 2SC3875S(ALY) KEC	D400	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q1232	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA	D400	0DD226239AA	CHIP KDS226 SOT-23
Q1235	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D401	0DD226239AA	CHIP KDS226 SOT-23
Q1236	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D402	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
Q1237	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA	D402	0DD414809ED	1N4148 TP GRANDE
Q1601	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D403	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
Q2	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D403	0DD414809ED	1N4148 TP GRANDE
Q201	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D404	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
Q202	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D404	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
Q203	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D404	0DD414809ED	1N4148 TP GRANDE
Q204	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D405	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
Q205	0TR150400BA	CHIP 2SA1504S(ASY) KEC	D405	0DD226239AA	CHIP KDS226 SOT-23
Q206	0TR150400BA	CHIP 2SA1504S(ASY) KEC			

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;	CO : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
D406	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1001	181-120K	2200PF 4KV M E FMTW LEAD 4.5
D406	0DD226239AA	CHIP KDS226 SOT-23	C101	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
D410	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTECH	C104	0CE226SF6DC	22UF MVG 16V M SMD R/TP
D411	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTECH	C105	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
D431	0DD414809ED	1N4148 TP GRANDE	C106	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
D432	0DD414809ED	1N4148 TP GRANDE	C107	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
D433	0DD414809ED	1N4148 TP GRANDE	C108	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
D434	0DD414809ED	1N4148 TP GRANDE	C11	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
D435	0DD414809ED	1N4148 TP GRANDE	C1100	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
D437	0DD414809ED	1N4148 TP GRANDE	C1101	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D5	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1102	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
D6	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1102	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
D601	0DD226239AA	CHIP KDS226 SOT-23	C1103	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
D602	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1103	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
D7	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1104	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
D8	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP	C1105	0CC180CKH1A	18PF 1608 50V 2% R/TP NP0
D801	0DD606000AA	RBV606 BK NA 600V 6A 150A NA 10UA	C1106	0CC180CKH1A	18PF 1608 50V 2% R/TP NP0
D810	0DD100009AM	EU1ZV(1) TP SANKEN	C1107	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
D820	0DD100009AM	EU1ZV(1) TP SANKEN	C1108	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D821	0DD100009AM	EU1ZV(1) TP SANKEN	C1110	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D822	0DD100009AM	EU1ZV(1) TP SANKEN	C1111	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
D832	0DR010009AA	EG01C TP - 1000V 0.5A 10A 100NSEC 50UA	C1112	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D833	0DD100009AM	EU1ZV(1) TP SANKEN	C1114	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) SMD
D834	0DD260000BB	BRIDGE D2SBA60(STK) SHINDENKEN	C1116	0CE107SF6DC	1000UF MVG 16V M SMD R/TP
D841	0DD120000BB	FML-G12S	C1118	0CE107SF6DC	1000UF MVG 16V M SMD R/TP
D845	0DD414809ED	1N4148 TP GRANDE	C1122	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D851	0DD120000BB	FML-G12S	C1125	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D852	0DR460009AA	RK46 TP DO-214AC 60V 3.5A 70A 100SEC 3MA	C1133	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D871	0DD120000BB	FML-G12S	C1134	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
D881	0DD100009AP	EG1ZV(1) TP TP SANKEN	C1138	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
Q810	0DR260001AA	FMG-26S ST TO220 600V 6A 50A 100NSEC 0.005A	C1139	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
ZD01	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A	C114	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
ZD02	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A	C1143	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
ZD03	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A	C119	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
ZD1	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C120	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
ZD10	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1200	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
ZD2	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1201	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
ZD3	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1202	0CE107SF6DC	1000UF MVG 16V M SMD R/TP
ZD4	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1204	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
ZD5	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1205	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
ZD6	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1206	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
ZD841	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1207	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
ZD851	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1208	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
ZD9	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA	C1209	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
<b>CAPACITOR</b>			C1210	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C01	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD	C1216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C07	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C1217	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1	0CE476DF618	47UF STD 16V M FL TP5	C1218	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C1219	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C10	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C1226	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1000	181-120K	2200PF 4KV M E FMTW LEAD 4.5	C1234	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
			C1237	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD

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

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C124	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C1511	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1246	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD	C1513	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C125	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C1519	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1250	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C1520	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1251	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C1521	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1252	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C1522	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C126	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C1524	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1260	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C1525	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C127	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C1529	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1301	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1535	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1305	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1536	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1308	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1541	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1309	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C158	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1310	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C159	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1311	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1601	0CE107DH618	100UF STD 25V M FL TP5
C1313	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1602	0CE106DK618	10UF STD 50V M FL TP5
C1319	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1603	0CE107DH618	1000UF STD 25V M FL TP5
C1320	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1604	0CE106DK618	10UF STD 50V M FL TP5
C1321	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1605	0CE107DH618	1000UF STD 25V M FL TP5
C1322	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1606	0CE106DF618	10UF STD 16V M FL TP5
C1324	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1607	0CE108DK61A	10000UF STD 50V M FL TP7.5
C1325	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1608	0CE106DF618	10UF STD 16V M FL TP5
C1330	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1609	0CE106DF618	10UF STD 16V M FL TP5
C1335	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1610	0CE108DJ618	10000UF STD 35V M FL TP5
C1336	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1611	0CE108DJ618	10000UF STD 35V M FL TP5
C1341	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1612	0CQ6821N509	0.0068UF D 100V 10% PE TP5
C136	0CK823DK56A	82000PF 2012 50V 10% R/TP X7R	C1613	0CQ6821N509	0.0068UF D 100V 10% PE TP5
C139	0CE476SF6DC	47UF MVG 16V M SMD R/TP	C1614	0CE226DF618	22UF STD 16V M FL TP5
C1401	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1615	0CE108DF618	10000UF STD 16V M FL TP5
C1405	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1616	0CQ1041N509	0.1UF D 100V 10% PE TP5
C1408	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1618	0CQ1041N509	0.1UF D 100V 10% PE TP5
C1409	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1620	0CE477VF6DC	4700UF MV 16V 20% R/TP(SMD) SMD
C1410	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1621	0CE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C1411	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1624	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1413	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1626	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1419	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1627	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1420	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C1629	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1421	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1630	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1422	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C1631	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1424	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C168	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1425	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C172	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1429	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C173	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1435	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C175	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1436	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C183	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1441	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C185	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C147	0CE226SF6DC	22UF MVG 16V M SMD R/TP	C186	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C148	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C187	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C1501	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C188	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1505	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C190	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1508	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C191	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1509	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD	C192	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1510	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R	C193	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD

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;	CO : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C194	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C314	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C195	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C315	OCE107DF618	1000UF STD 16V M FL TP5
C198	OCE226SF6DC	22UF MVG 16V M SMD R/TP	C359	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C2	0CN1030F679	10000P 16V M Y TA52	C362	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C2	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C371	OCE336SC6DC	33UF MVG 6.3V M SMD R/TP
C200	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C372	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C201	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C401	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C202	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C402	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C203	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C403	OCE107SF6DC	1000UF MVG 16V M SMD R/TP
C204	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C403	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C205	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C404	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C206	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C405	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C207	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C406	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C207	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C406	OCE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C208	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C407	OCE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C209	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD	C408	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD
C210	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C409	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C211	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C410	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD
C211	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C411	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C212	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C411	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD
C212	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C412	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD
C213	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C417	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C214	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C426	OCE477DD618	4700UF STD 10V M FL TP5
C215	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C427	OCE227BF618	2200UF KME 16V M FL TP5
C215	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C428	OCE227DD618	2200UF STD 10V M FL TP5
C216	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C429	OCE227BH618	2200UF KME 25V M FL TP5
C216	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C430	OCE477DF618	4700UF STD 16V 20% FL TP 5
C217	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C433	OCE107DD618	1000UF STD 10V M FL TP5
C219	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C434	OCE107BF618	1000UF KME 16V M FL TP5
C220	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C435	OCE107DD618	1000UF STD 10V M FL TP5
C224	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C436	OCE107DF618	1000UF STD 16V M FL TP5
C224	OCE476SF6DC	47UF MVG 16V M SMD R/TP	C437	OCE107DD618	1000UF STD 10V M FL TP5
C225	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C450	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C226	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C453	OCE107BF618	1000UF KME 16V M FL TP5
C227	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C456	OCE477DH618	4700UF STD 25V M FL TP5
C232	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C456	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD
C232	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C5	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C234	OCE227VF6DC	2200UF MV 16V 20% R/TP(SMD) SMD	C507	OCE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C235	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C508	OCE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C236	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C509	OCE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C237	OCK224DF56A	220000PF 2012 16V 10% R/TP X7R	C510	OCE226SF6DC	22UF MVG 16V M SMD R/TP
C238	OCE476SF6DC	47UF MVG 16V M SMD R/TP	C515	OCK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C240	OCE476SF6DC	47UF MVG 16V M SMD R/TP	C6	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C249	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C606	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C260	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C607	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD
C261	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C608	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C262	OCE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C609	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C274	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C610	OCE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C284	OCE227BH618	220UF KME 25V M FL TP5	C611	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C290	OCE107VF6DC	1000UF MV 16V 20% R/TP(SMD) SMD	C612	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C3	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD			
C312	OCE226SF6DC	22UF MVG 16V M SMD R/TP			

			<p style="text-align: center;">For Capacitor &amp; Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CC, CX, CK, CN : Ceramic</td><td style="width: 33%;">RD : Carbon Film</td></tr> <tr> <td>CQ : Polyester</td><td>RS : Metal Oxide Film</td></tr> <tr> <td>CE : Electrolytic</td><td>RN : Metal Film</td></tr> <tr> <td></td><td>RF : Fusible</td></tr> </table>			CC, CX, CK, CN : Ceramic	RD : Carbon Film	CQ : Polyester	RS : Metal Oxide Film	CE : Electrolytic	RN : Metal Film		RF : Fusible
CC, CX, CK, CN : Ceramic	RD : Carbon Film												
CQ : Polyester	RS : Metal Oxide Film												
CE : Electrolytic	RN : Metal Film												
	RF : Fusible												
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION								
<b>COIL &amp; TRANSFORMER</b>													
C613	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	L1	OLA0102K119	INDUCTOR,10UH K 2.3*3.4 TP								
C614	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	L1100	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C615	OCE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD	L1101	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C653	OCE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD	L1102	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C7	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	L1103	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C8	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	L1104	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C801	OCQZVBK002B	A.C 275V 0.15UF K (S=22.5)	L1105	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C801B	OCE106BK618	10UF KME 50V M FL TP5	L1107	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C802	OCQZVBK002A	A.C 275V 0.1UF M (S=15)	L1200	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH LQH1C4R7M04								
C804	OCF1050W470	1UF 0 500V 5% BULK M/PP NI	L202	OLA0102K119	INDUCTOR,10UH K 2.3*3.4 TP								
C805	OCK10202510	1000P 2KV K B S	L841	150-C02F	COIL,CHOKE82UH PHY TURN								
C806	OCK10202510	1000P 2KV K B S	L851	150-C02F	COIL,CHOKE82UH PHY TURN								
C806	OCQZVBK002C	A.C 275V 0.22UF K (S=22.5)	L852	6170VZ0005A	TRANSFORMER,IRON-15 120UH LM2576,ND00GA								
C808	OCQ1021N519	0.001U 100V K POLY NI TP	L853	150-C02F	COIL,82UH PHY TURN								
C809	181-007J	MPE ECQ-V1H564JL3(TR), 50V 0.56UF J	L861	150-C02F	COIL,82UH PHY TURN								
C814	OCE107BK618	100UF KME 50V M FL TP5	L871	150-C02F	COIL,82UH PHY TURN								
C818	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5	L881	150-C02F	COIL,82UH PHY TURN								
C820	181-001K	CE 450V 220UF M LUG(105)	T801	6170VMCA03D	TRANSFORMER,EER4942 1200UH STR-F6669								
C821	181-014Y	MPP 1.6KV 0.0015UF J	T810	6170VMCA37B	TRANSFORMER,PQ3535 310UH MC33262								
C822	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5	T830	6170VS0001B	TRANSFORMER,EE1927 2200UH BULK								
C825	OCE107BK618	100UF KME 50V M FL TP5	<b>CONNECTOR</b>										
C829	181-120K	2200PF 4KV M E FMTW LEAD 4.5	JA1200	6630VGA001B	68114-1522 KOR 15PIN 2.29MM ANGLE SN								
C831	181-035U	DE1B3KX471KA5B 470PF 250V 10%	P101A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)								
C833	OCE226BK618	22UF KME 50V M FL TP5	P102A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)								
C834	OCE476BK618	47UF KME 50V M FL TP5	P103A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)								
C835	181-010K	PP 0.01UF 630V 5% FM 7.5MM	P1300	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE								
C836	OCE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK	P1400	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE								
C837	OCK1030K945	0.01UF 50V Z F TR	P1500	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE								
C841	OCE108BF618	1000UF KME 16V M FL TP5	P201A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)								
C842	OCE107BF618	100UF KME 16V M FL TP5	P202A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)								
C843	OCK1040K945	0.1UF 50V Z F TR	P404	6630VGA004A	68107-0922 MOLEX 9PIN 2.77MM ANGLE GOLD								
C845	OCE476BK618	47UF KME 50V M FL TP5	P805	6631V23001G	2P 10.0MM 700MM H-H UL1617								
C852	OCE228BH61A	2200UF KME 25V M FL TP7.5	<b>RESISTOR</b>										
C853	OCE108BF618	1000UF KME 16V M FL TP5	AR100	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C855	OCE228BF618	2200UF KME 16V M FL TP5	AR101	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C856	OCK1040K945	0.1UF 50V Z F TR	AR102	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C857	OCE108BF618	1000UF KME 16V M FL TP5	AR103	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C859	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	AR104	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C862	OCE228BH61A	2200UF KME 25V M FL TP7.5	AR105	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C863	OCE108BF618	1000UF KME 16V M FL TP5	AR106	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%								
C865	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	AR1100	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C866	OCE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP	AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C873	OCE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK	AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C876	OCE337DK618	330UF STD 50V M FL TP5	AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C881	OCE477BJ618	470UF KME TYPE 35V 20% FL TP 5	AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C883	OCE227BH618	220UF KME 25V M FL TP5	AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C884	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	AR1200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C886	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	AR1201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24								
C9	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD											

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;	CO : Polyester CE : Electrolytic	RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
AR1202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R812	0RN3903F409	390K 1/6W 1% TA52
AR1203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R813	0RN3903F409	390K 1/6W 1% TA52
AR1204	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R814	0RN3903F409	390K 1/6W 1% TA52
AR1205	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R815	0RD1203F609	120K OHM 1/6 W 5.00% TA52
AR1206	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R816	0RD2202F609	22K OHM 1/6 W 5% TA52
AR1207	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R817	0RD1202F609	12K OHM 1/6 W 5% TA52
AR1208	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R818	0RD2200F609	220 OHM 1/6 W 5.00% TA52
AR1209	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R819	0RN1002F409	10K OHM 1/6 W 1.00% TA52
AR1210	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R820	0RN1002F409	10K OHM 1/6 W 1.00% TA52
AR1211	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R821	180-A01M	0.22 OHM 2 W 5% TA62
AR1212	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R822	0RD1001F609	1K OHM 1/6 W 5% TA52
AR1213	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R823	0RD2701F609	2.7K OHM 1/6 W 5% TA52
AR1214	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R824	0RD0332H609	33 OHM 1/2 W 5.00% TA52
AR1215	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R825	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR1216	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R826	0RS2202K607	22K OHM 2 W 5.00% TA62
AR1217	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R827	0RS1202K607	12K OHM 2 W 5.00% TA62
AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R829	0RKZVTA001D	10M OHM 1/2 W 5% TA52 UL PILKOR
AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R831	0RS8202K607	82K OHM 2 W 5.00% TA62
AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R833	0RS0161K607	1.6 OHM 2 W 5.00% TA62
AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R834	0RS1203K607	120K OHM 2 W 5.00% TA62
AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R835	0RF0221H609	2.2 OHM 1/2 W 5.00% TA52
AR306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R840	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
D812	0RD0302F609	30 OHM 1/6 W 5.00% TA52	R841	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R1	0RD0752F609	75 OHM 1/6 W 5.00% TA52	R842	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R104	0RD1000H609	100 OHM 1/2 W 5.00% TA52	R843	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R106	0RD1000H609	100 OHM 1/2 W 5.00% TA52	R844	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R1105	0RH9101D622	9.1K OHM 1 / 10 W 2012 5.00% D	R845	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R1253	0RN1002F409	10K OHM 1/6 W 1.00% TA52	R851	0RD2401F609	2.4K OHM 1/6 W 5.00% TA52
R1606	0RF0331H609	3.3 OHM 1/2 W 5.00% TA52	R852	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R1609	0RF0331H609	3.3 OHM 1/2 W 5.00% TA52	R853	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R1615	0RS2201K607	2.2K OHM 2 W 5.00% TA62	R854	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R1616	0RS2201K607	2.2K OHM 2 W 5.00% TA62	R855	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2	0RD4703F609	470K OHM 1/6 W 5.00% TA52	R857	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R3	0RD4703F609	470K OHM 1/6 W 5.00% TA52	R871	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R4	0RD0752F609	75 OHM 1/6 W 5.00% TA52	R90	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
R402	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52	<b>SWITCH</b>		
R409	0RN3302F409	33K OHM 1/6 W 1.00% TA52	SW01	140-275E	SPBS222EP011 POSTEC NON DC50V 0.3A
R425	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52	SW01	140-315A	TACT SKHV17910B LG C&D NON 12V
R426	0RD0102F609	10 OHM 1/6 W 5% TA52	SW02	140-315A	TACT SKHV17910B LG C&D NON 12V
R5	0RD0752F609	75 OHM 1/6 W 5.00% TA52	SW03	140-315A	TACT SKHV17910B LG C&D NON 12V
R801	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR	SW04	140-315A	TACT SKHV17910B LG C&D NON 12V
R801B	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52	SW05	140-315A	TACT SKHV17910B LG C&D NON 12V
R802B	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	SW06	140-315A	TACT SKHV17910B LG C&D NON 12V
R803	0RN3903G409	390K OHM 1/4 W 1% TA52	SW07	140-315A	TACT SKHV17910B LG C&D NON 12V
R803B	0RD0562H609	56 OHM 1/2 W 5.00% TA52	SW2	140-313A	TACT 2LEAD 100G(TA) LG C&D NON 5V 0.001A
R805	0RN3303G409	330K OHM 1/4 W 1.00% TA52	SW801	140-289A	POWER SDDF3PASP013 LG C&D UL/C
R805B	0RD3300F609	330 OHM 1/6 W 5.00% TA52	<b>FILTER &amp; CRYSTAL</b>		
R806	0RN3903G409	390K OHM 1/4 W 1% TA52	AT1301	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
R807	0RN3903G409	390K OHM 1/4 W 1% TA52	AT1302	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
R808	0RD8201H609	8.2K OHM 1/2 W 5.00% TA52	AT1303	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
R809	0RD0302F609	30 OHM 1/6 W 5.00% TA52			
R811	180-A01B	RW ROUND G 2W 0.11 K TA31(63)			

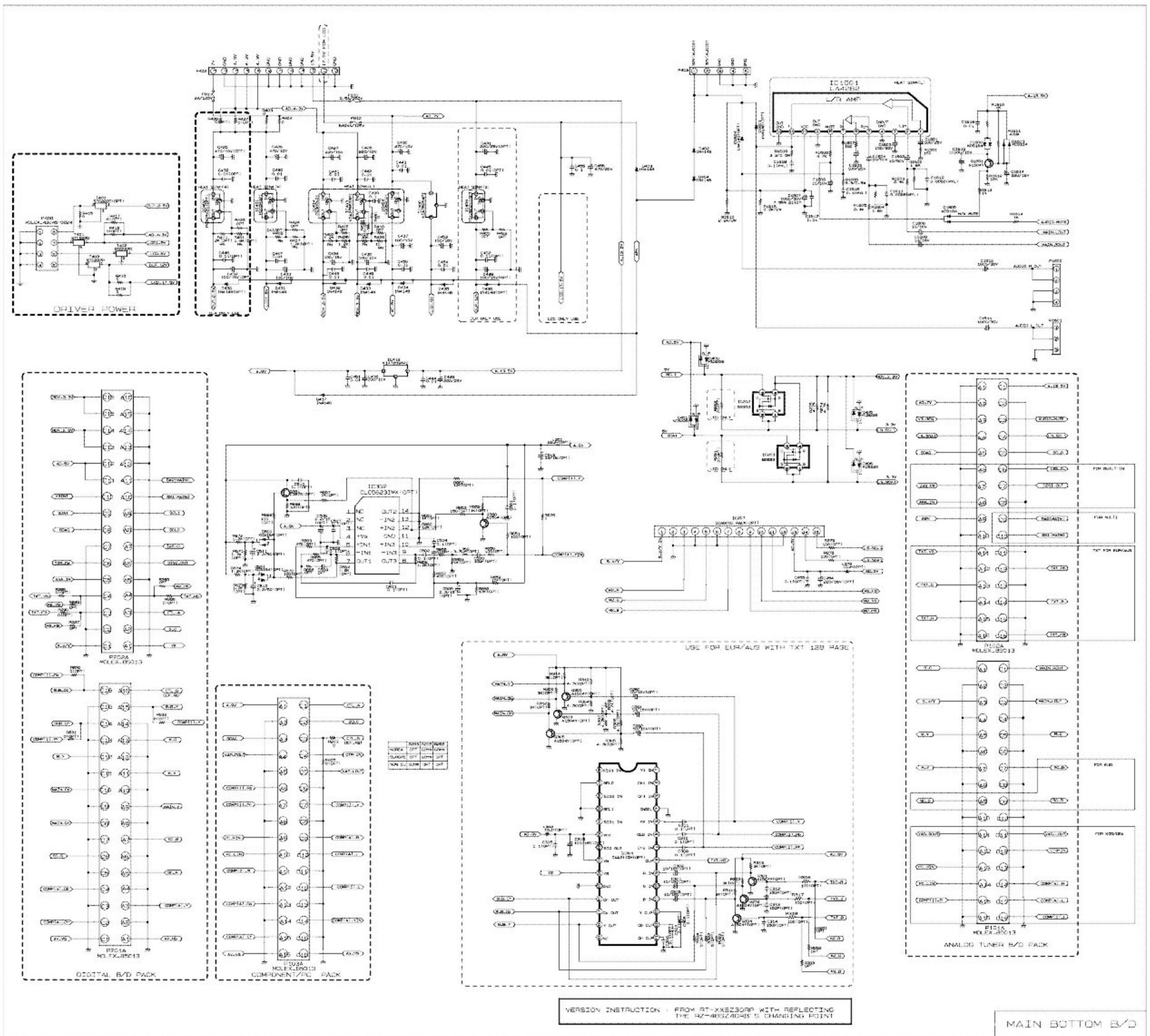
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
AT1304	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T402	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1305	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T402	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF
AT1306	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T403	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1307	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T403	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF
AT1401	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T406	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1402	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T407	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1403	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T408	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1404	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T409	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1405	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T410	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1406	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T411	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1407	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T414	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1501	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T415	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1502	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T416	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1503	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T417	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1504	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T418	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1505	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T419	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1506	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T420	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
AT1507	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM	T421	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
F1000	6200VJS001B	ZJYS1R5-2PL(T) TDK R/TP 50VOLT 2A	T422	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
FB819	125-123A	FERRITE BFD3565R2F(TAPING)	T423	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
FB820	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM	T424	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF
FB821	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM	T425	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF
FB822	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM	T426	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
FB861	125-123A	FERRITE BFD3565R2F(TAPING)	T427	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
FB871	125-123A	FERRITE BFD3565R2F(TAPING)	T428	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
FB872	125-123A	FERRITE BFD3565R2F(TAPING)	T430	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
L801	150-F06T	SQE3535 20MH PHY TURN	T431	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
L802	150-F06T	SQE3535 20MH PHY TURN	T432	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
L803	150-F06T	SQE3535 20MH PHY TURN	T438	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
L804	150-F06T	SQE3535 20MH PHY TURN	T440	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF
T110	0IZZVF0022C	AFM730F6M00X3(AF9397A) SIP 15P ST	T444	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
T1102	6200JB8009Q	SCR470R220 NIIGATA R/TP RN52NZ10H	T445	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
T1110	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF	T446	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA
T1111	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF	X1	156-A01L	CRYSTAL,HC49U 6.000MHZ 30PPM 16PF BK
T1112	6200VJT006A	STC22D NIIGATA 50VOLT 4A 2200PF	X101	6202VDT002E	CRYSTAL,SX-1SMD 2025000HZ 30PPM 16PF TP
T1301	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X102	6202VDT002E	CRYSTAL,SX-1SMD 2025000HZ 30PPM 16PF TP
T1302	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X1100	6202VDT002D	CRYSTAL,SX-1SMD 8.0MHZ 30PPM 16PF TP
T1303	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X1201	156-A01B	CRYSTAL,HC49U 3.579545MHZ 30PPM 16PF BK
T1304	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X1202	156-A01E	CRYSTAL,HC49U 4.000MHZ 30PPM 15PF BK
T1401	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X401	6212AB2015D	CRYSTAL,HC-49/SM 16MHZ +/- 50 PPM 16PF T/R
T1402	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	X601	156-A02M	CRYSTAL,HC49U 18.432MHZ 30PPM 10PF BK
T1403	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	<b>JACK</b>		
T1404	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	J1000	6612JH003EA	UST-AG-013 UGCOM 2P SPK TERMINAL
T1501	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	JA1201	6613V00013L	PMJ021-13 A/V 3X3(MONO 6P+S/W 2P)
T1502	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	JA1202	6612VJH006B	PJ6061D HORIZONTAL 2*3 6P
T1503	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	JA201	6613V00010B	PMJ016B A/V 3P + S-VHS (RD WH YL)
T1504	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK	JA202	6612JH003FA	PPJ136A PARK ELEC. RN-52SZ10H
T250	6200C000035	TH355LSK-K5220=P3 TOKO BK 6MHZ 4FW TYPE	JA204	380-404A	PHSJ-9504 HOSIDEN .
T251	6200C000035	TH355LSK-K5220=P3 TOKO BK 6MHZ 4FW TYPE	P101B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
T400	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA	P102B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
T401	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 25V 200MA	P103B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM

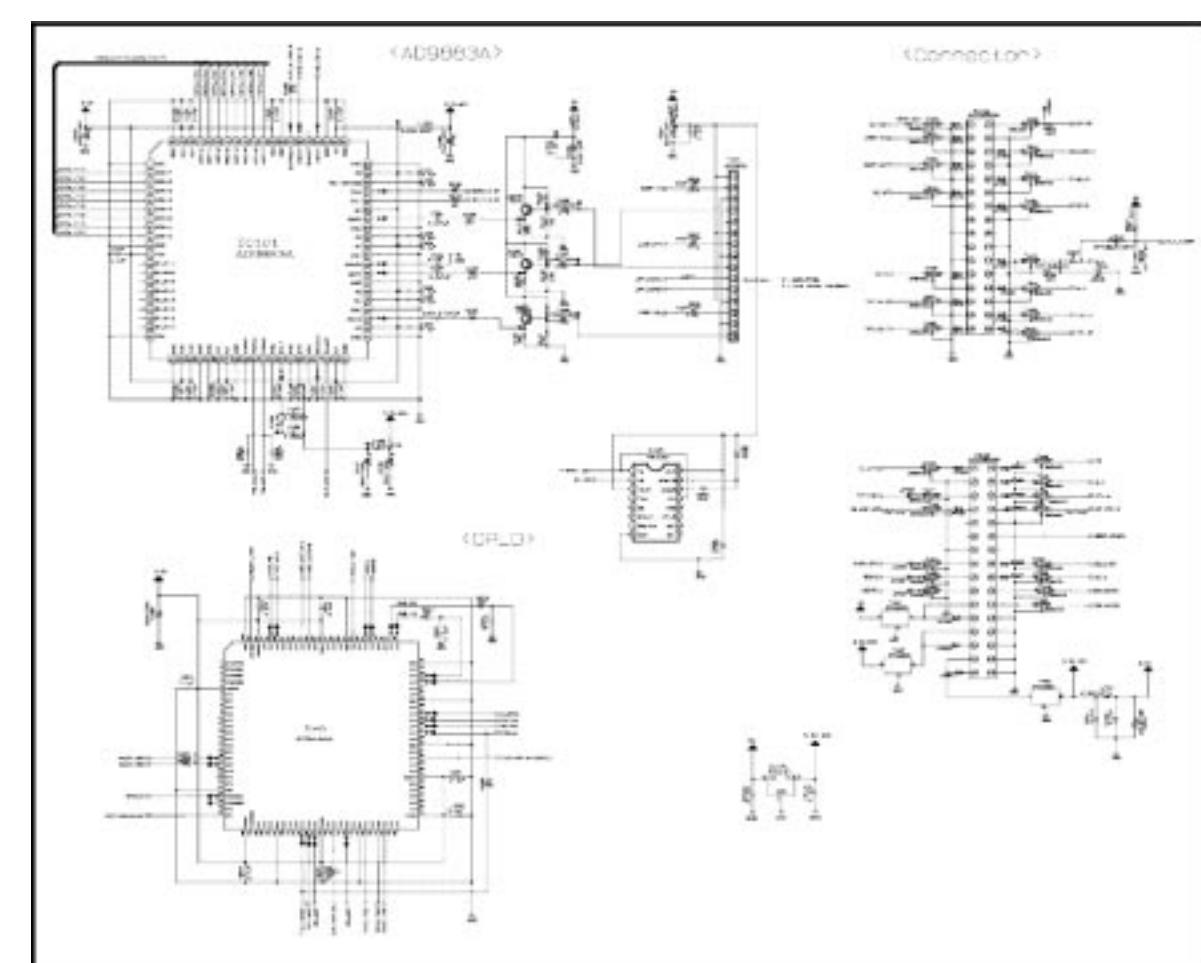
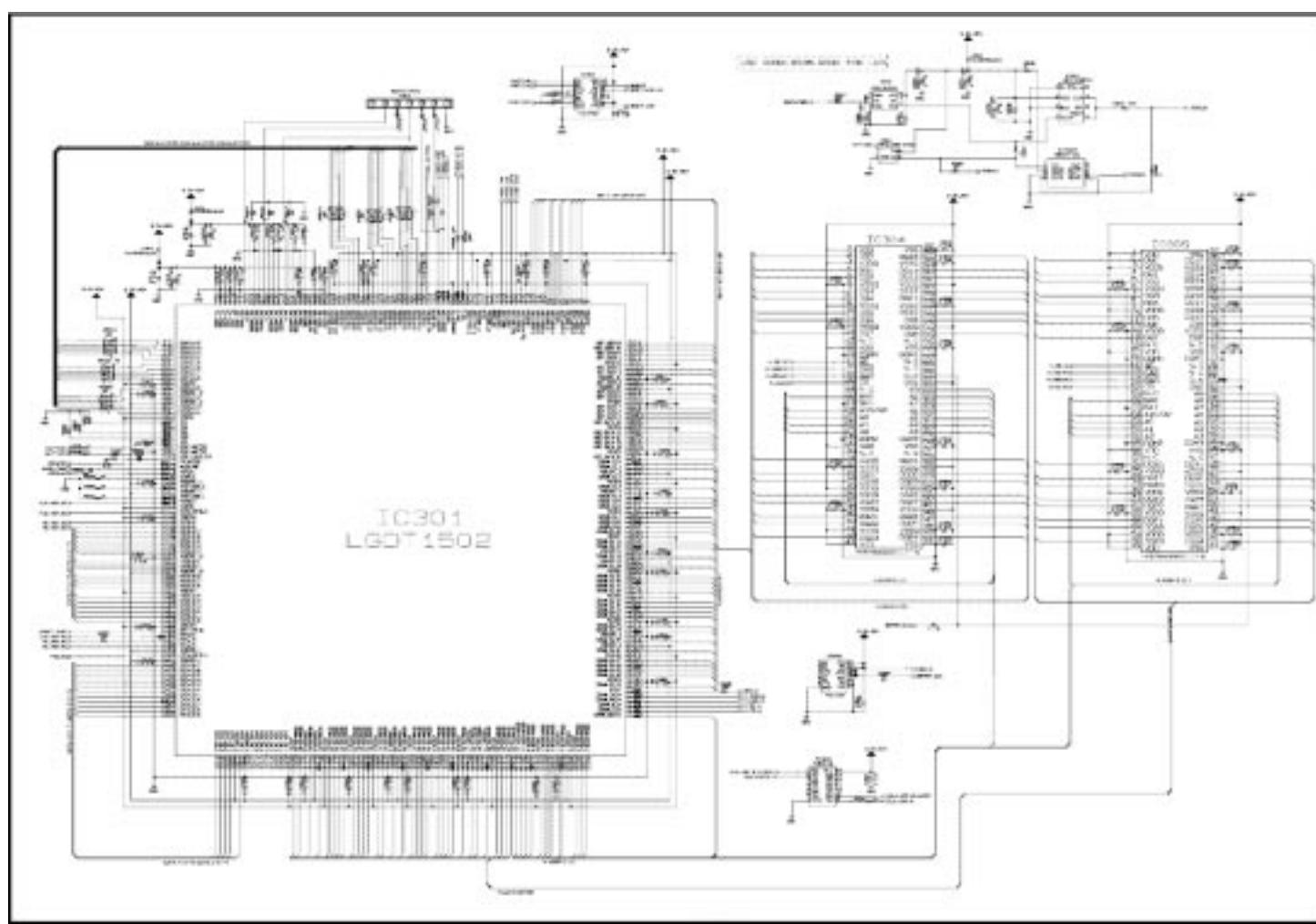
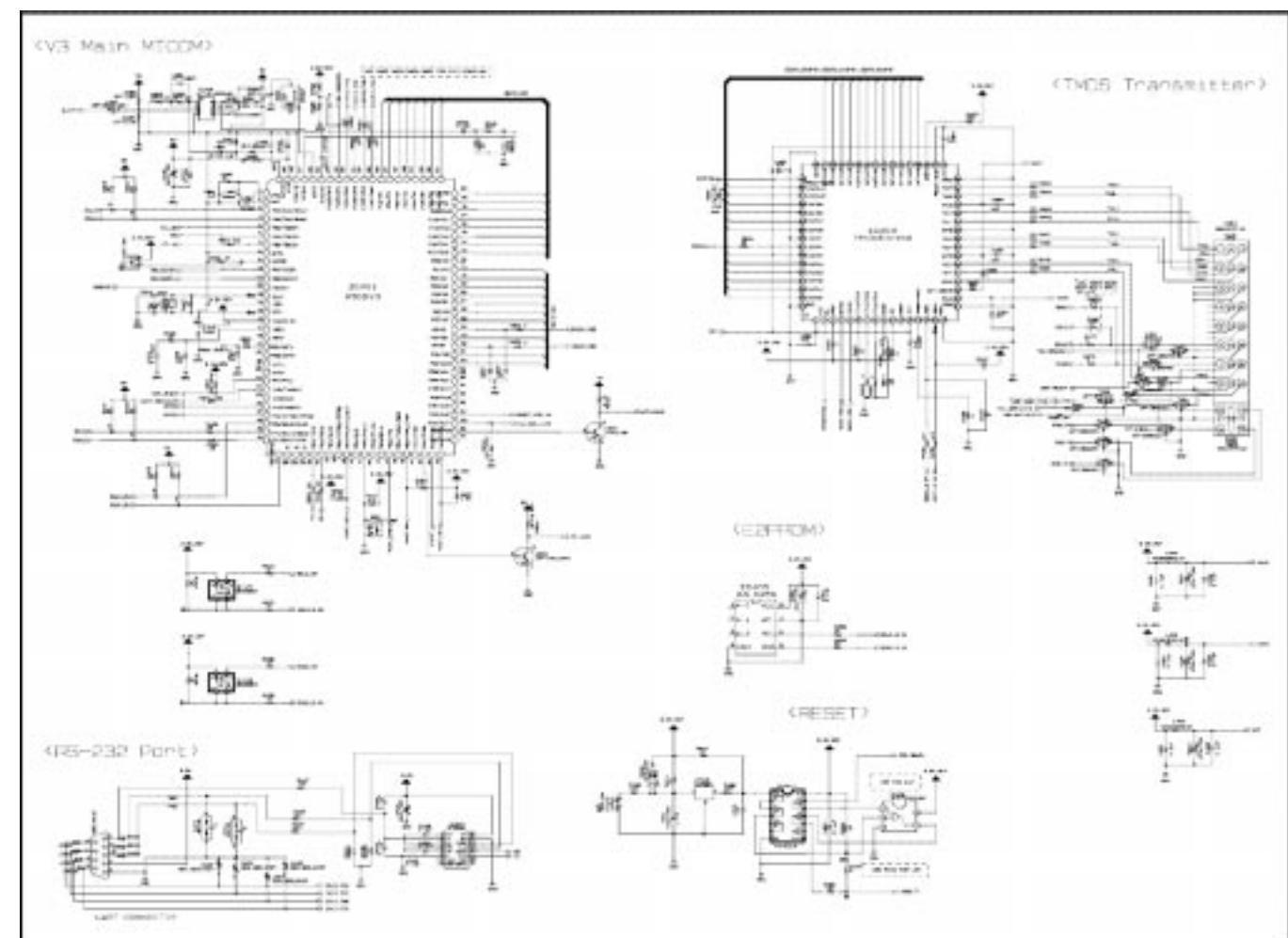
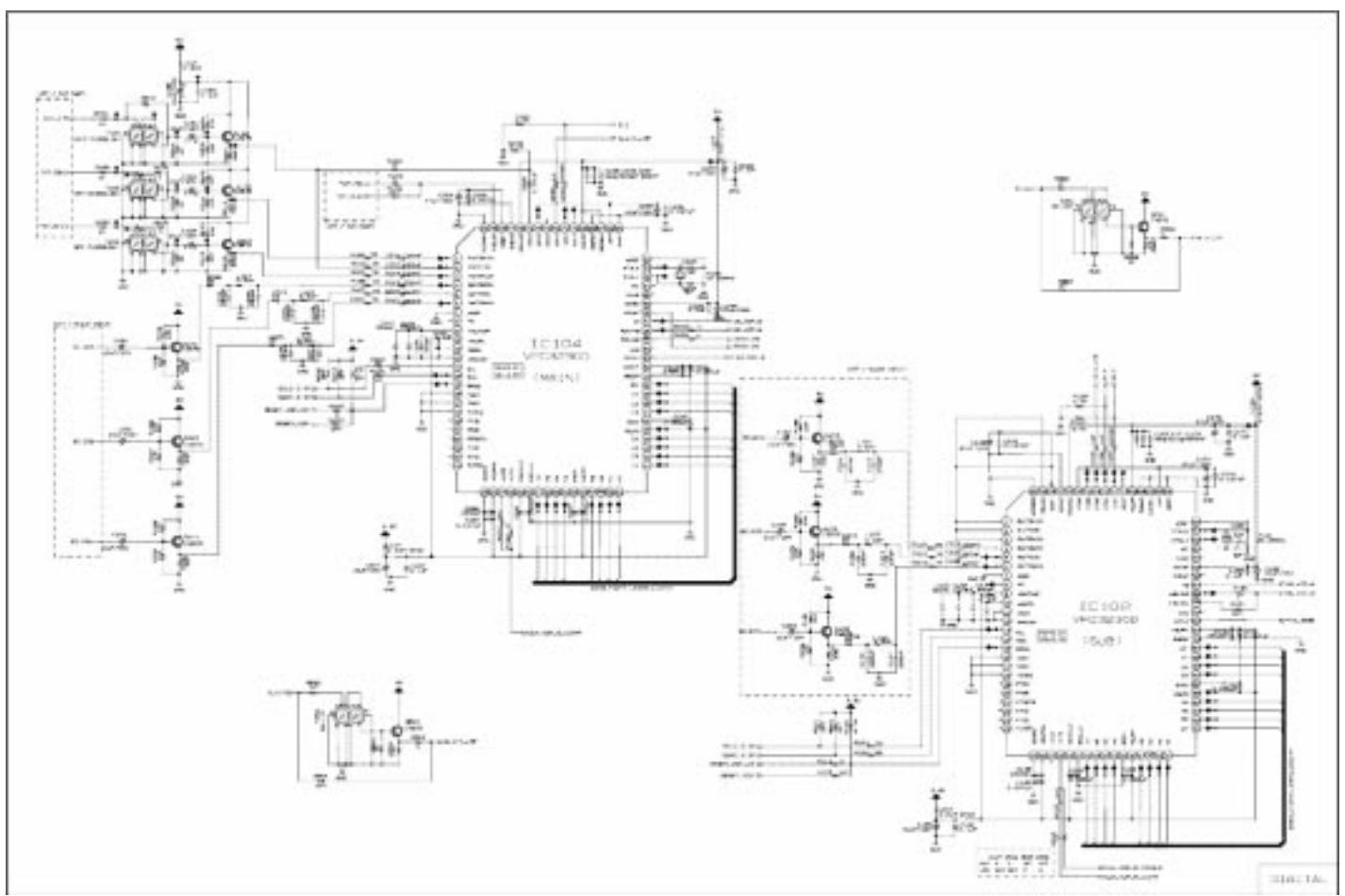
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
P1100	6612BBBHN7A	74320-3004 MOLEX DVI INTERACED 30PIN			
P401B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM			
P402B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM			
P403	6612BBBHN6A	440062-1 AMP DVI INTERACED RIGHT ANGLE			
<b>ACCESSORIES</b>					
A1	3828VA0447T	MANUAL,OWNERS MB03CA AP 116T TX 395A			
A2	6710V00116T	REMOTE CONTROLLER,MB03CA RT-48SZ40RB			
A3	172-050V	CABLE,COAXIAL(UL1365,2.5C-2V 100M/M)			
<b>MISCELLANEOUS</b>					
F800	0FS5001B51D	FUSE,SLOW BLOW 5000MA 250 V 5.2X20			
IC3	6620VF3201A	SOCKET(CIRC),IC 822473-3 AMP 32PIN 2.54MM			
NTC801	163-048D	THERMISTOR,NTC KL15L2R5 +/- 15% 125V			
NTC802	163-048D	THERMISTOR,NTC KL15L2R5 +/- 15% 125V			
PA1	6726VH0001A	REMOTE CONTROLLER RECEIVER,TSOP1238RF1			
TU101	6700MF0001C	TUNER,TAUD-Z240D MULTI FS 4SYS,2IN1			
TU102	6700MF0001D	TUNER,TAFD-Z241P FS 4SYS,2 IN 1, SUB			
VA800	164-003K	VARISTOR,SVC621D-14A ILJIN 620V 0%			
X300	6204B60001B	OSCILLATOR,VCXO 27MHZ +/- 100 PPM 3.3V			

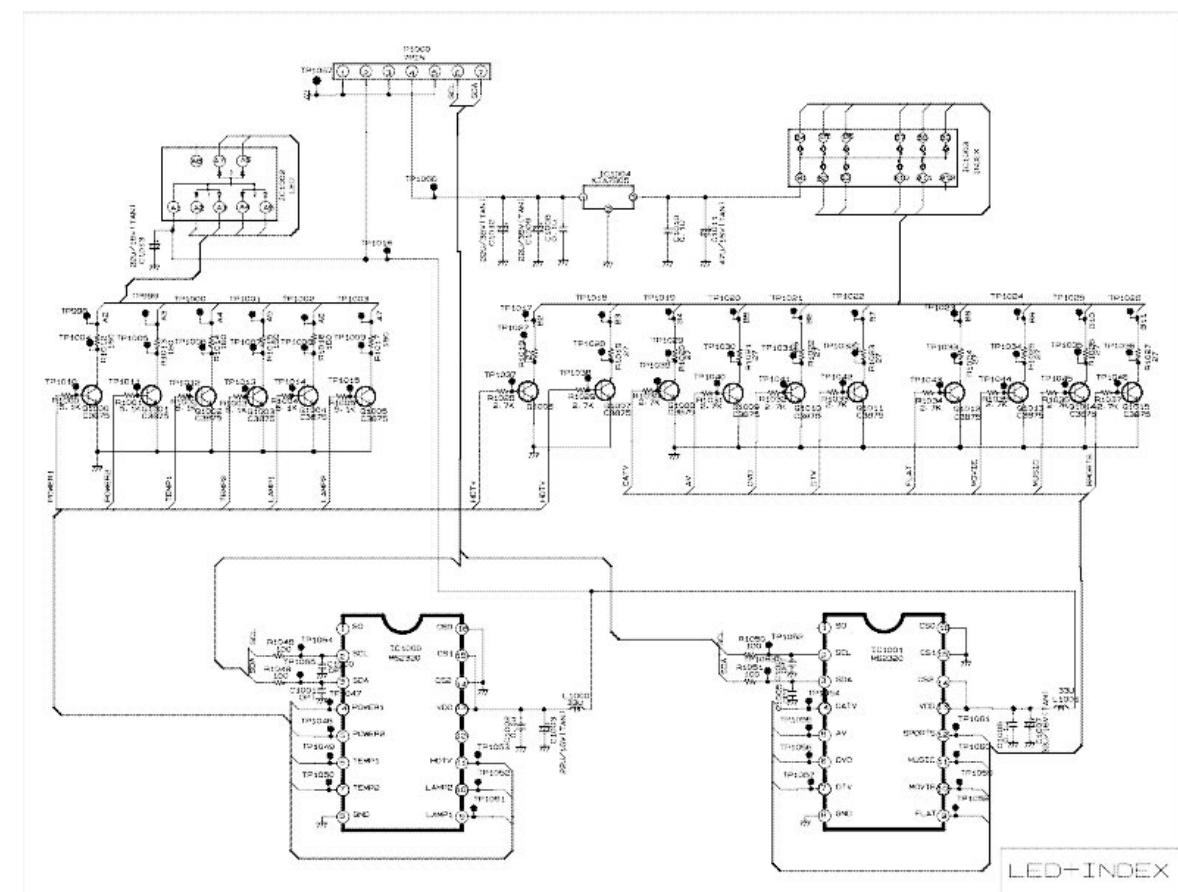
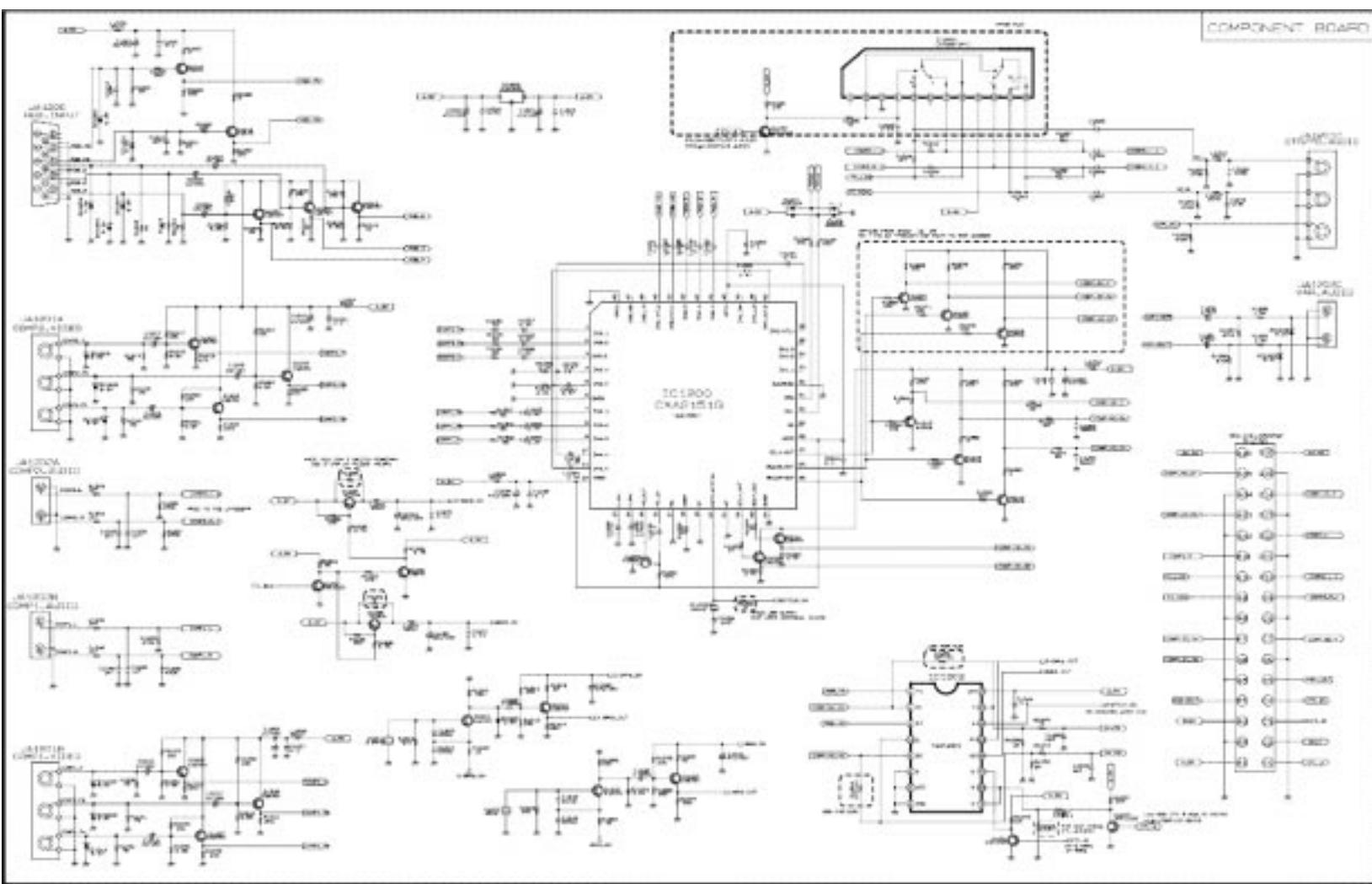
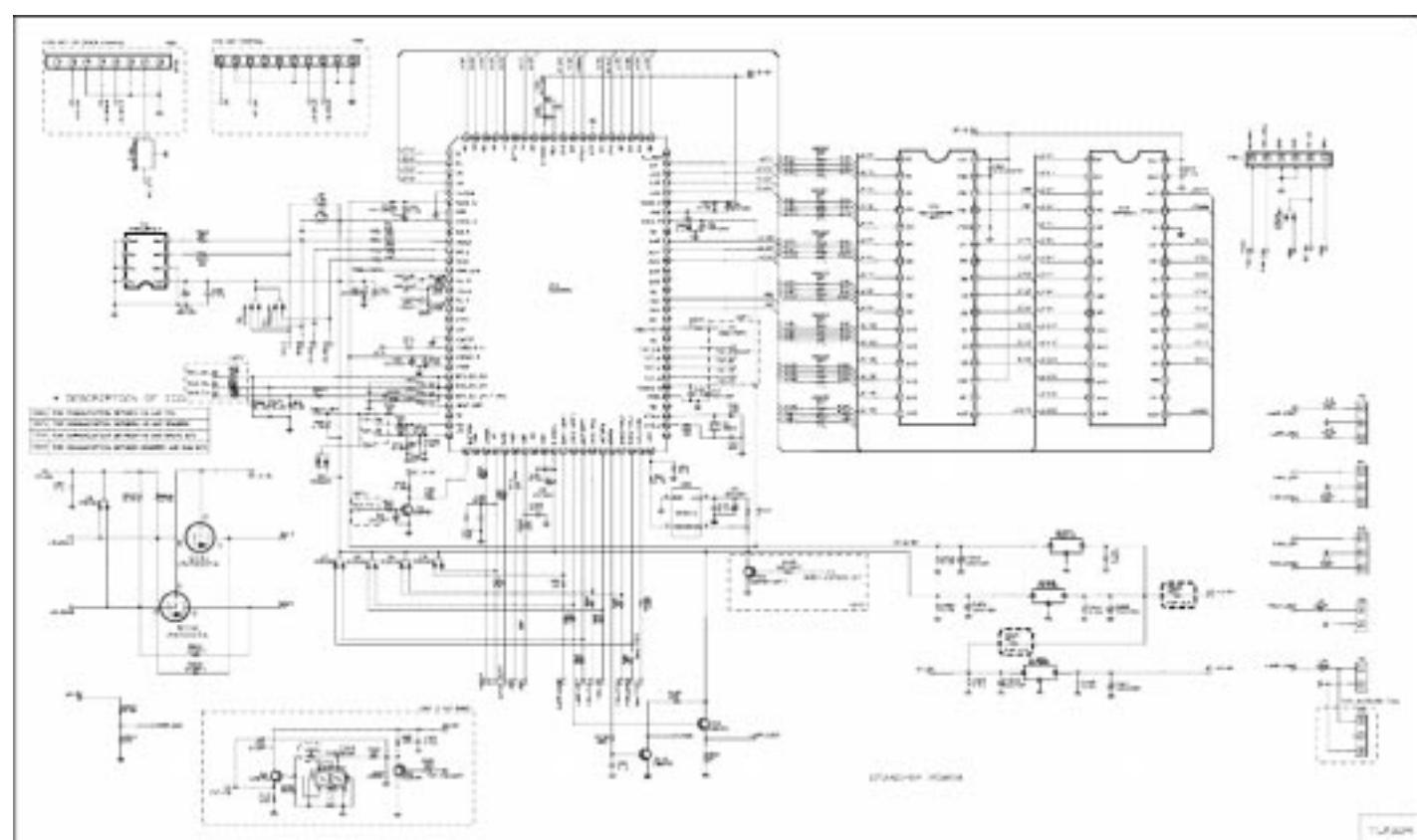
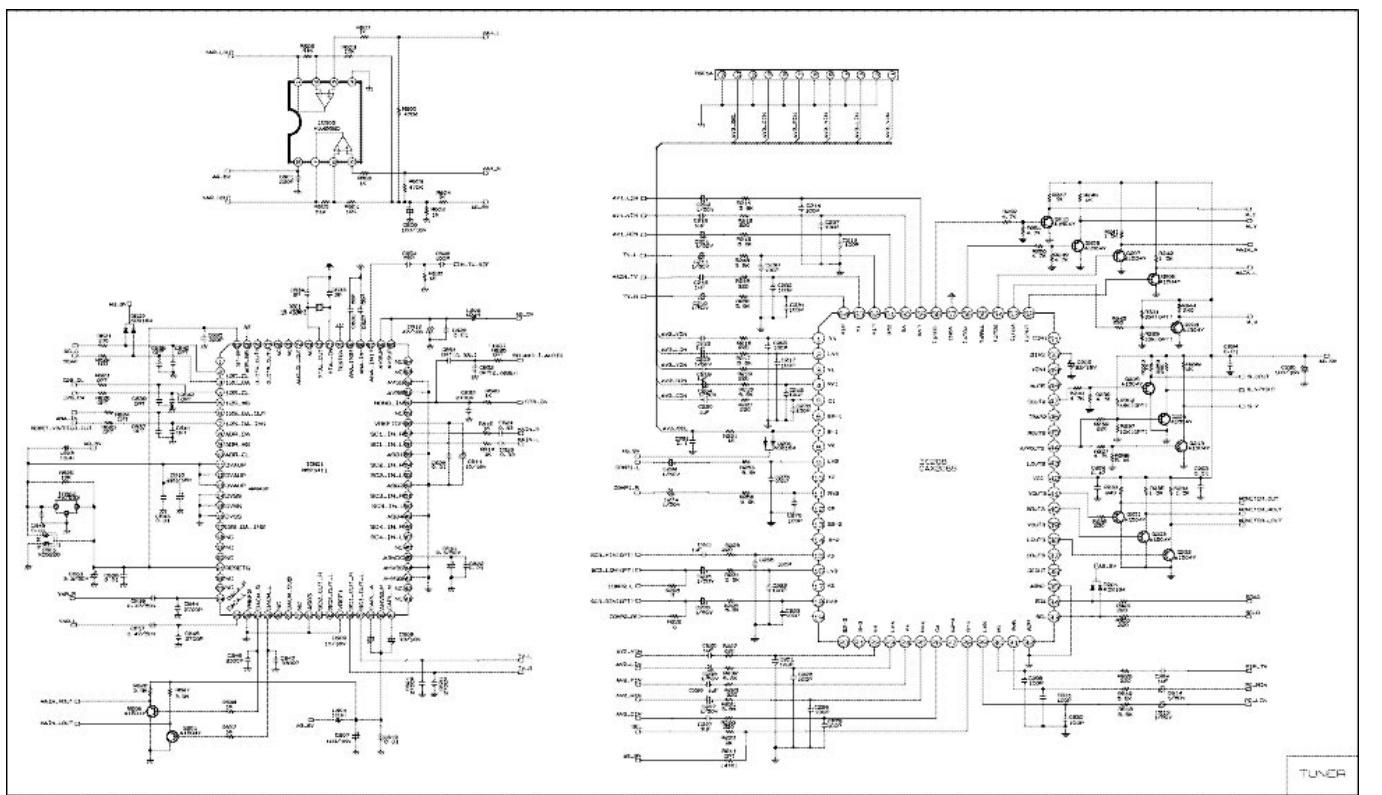


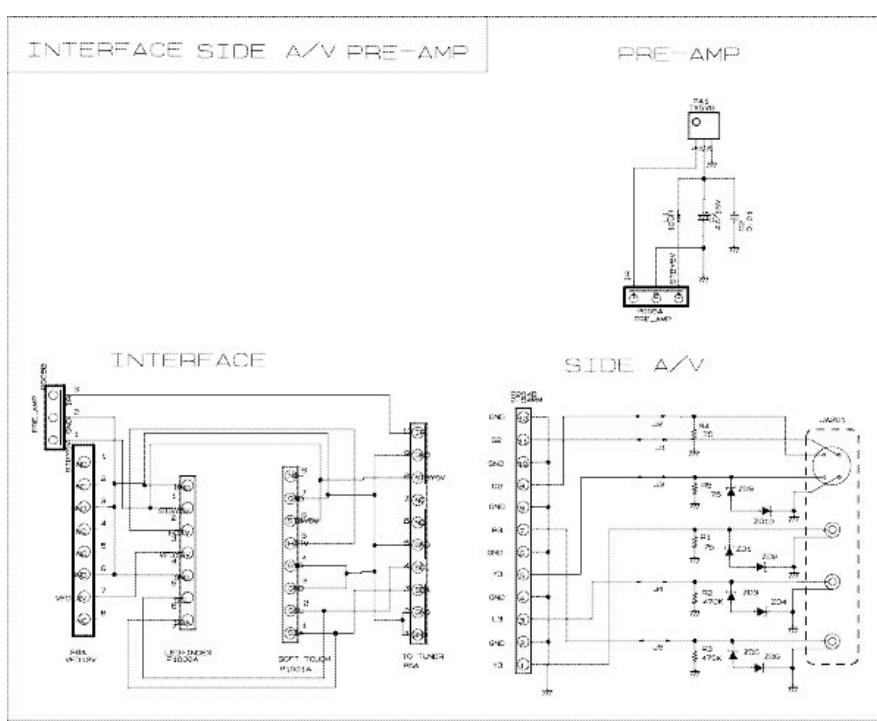
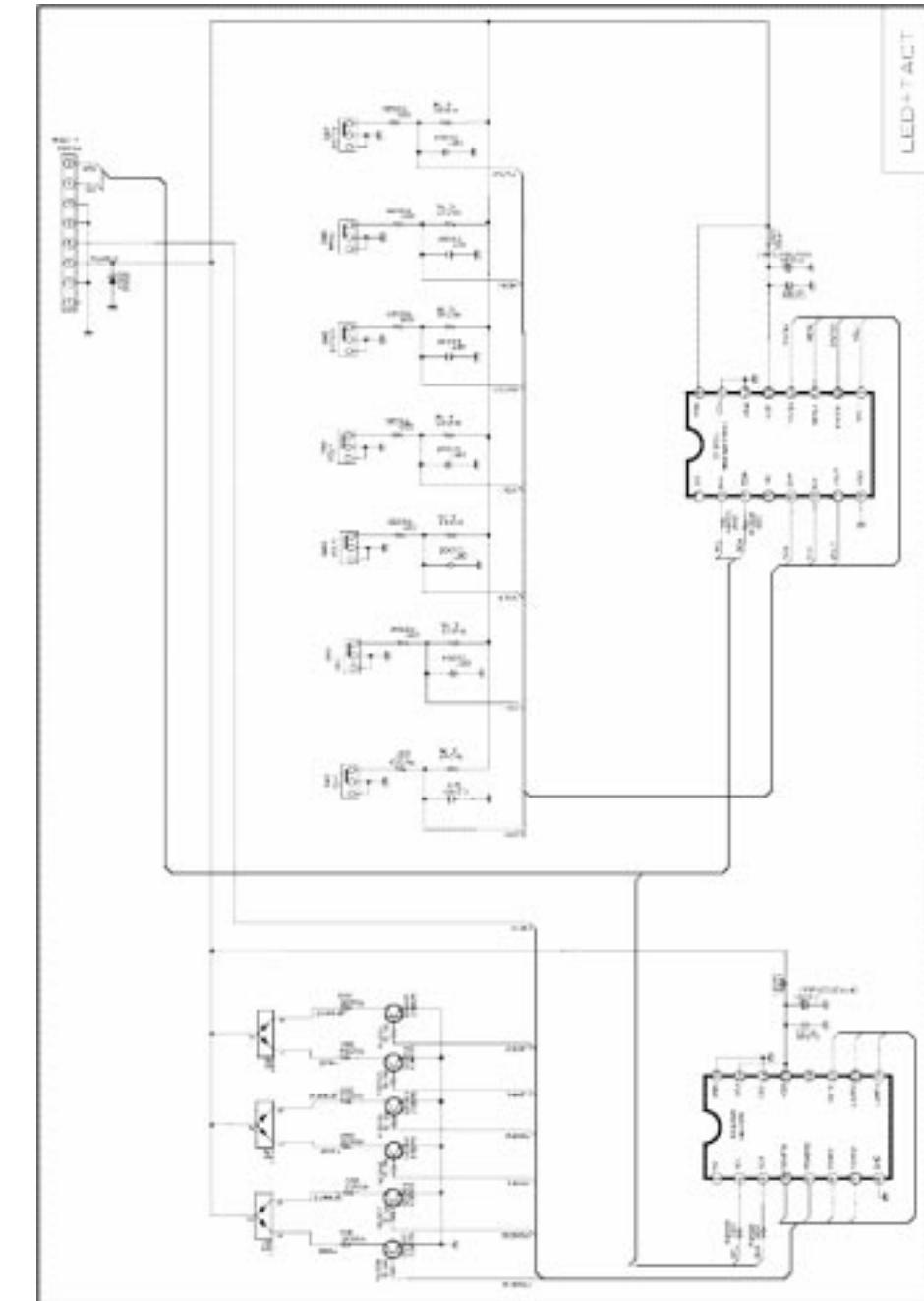
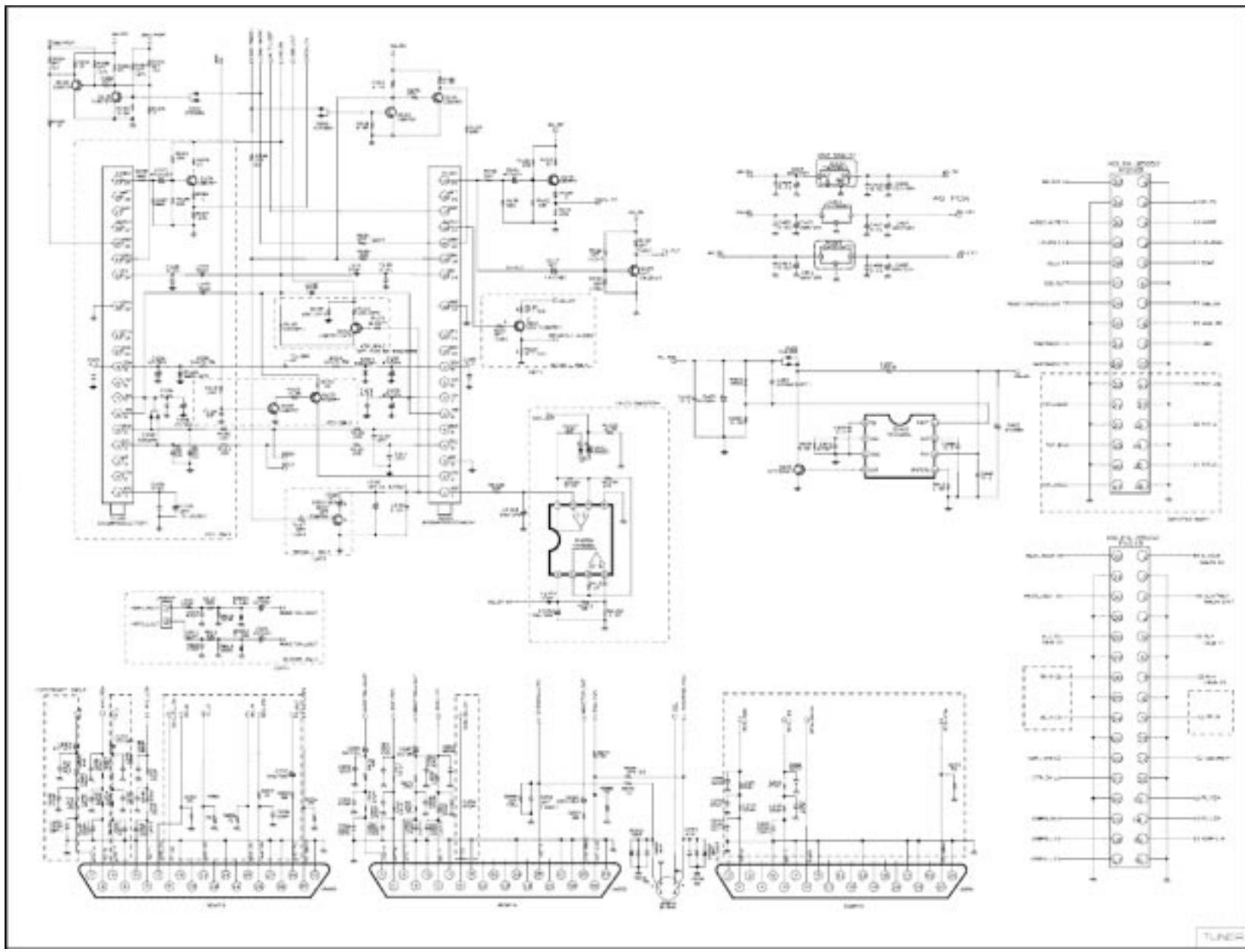
P/NO : 3828VD0167D

Feb.,2004  
Printed in Korea

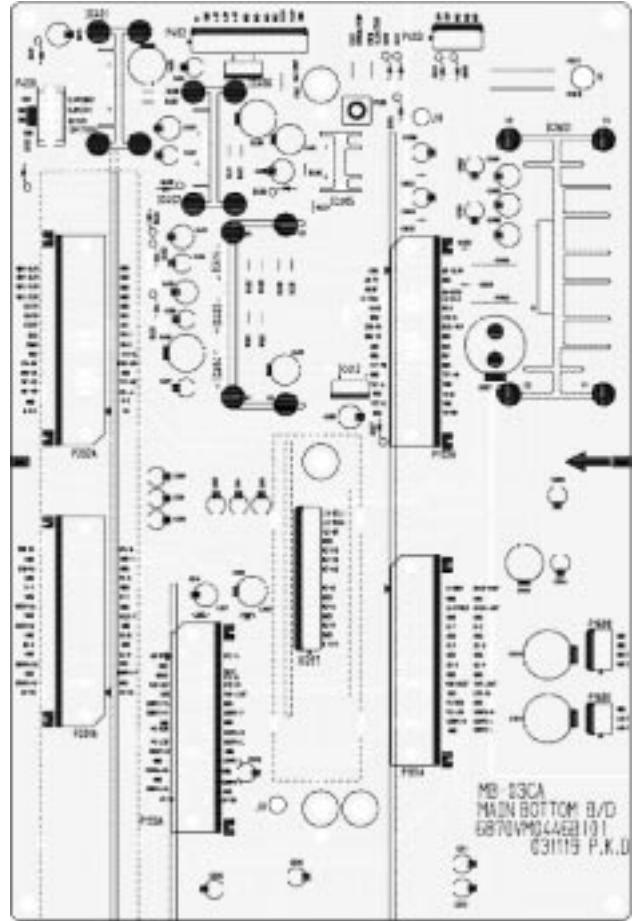




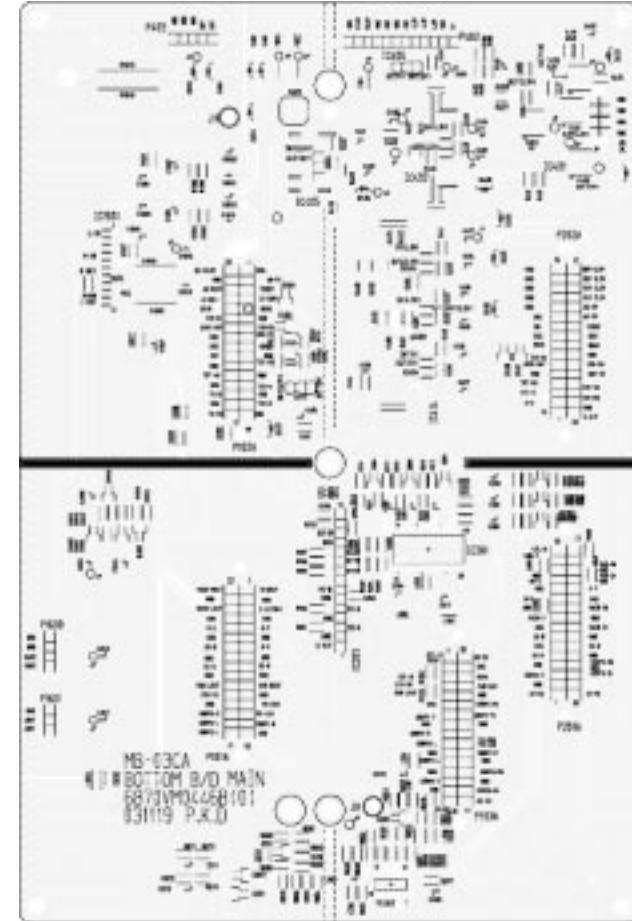
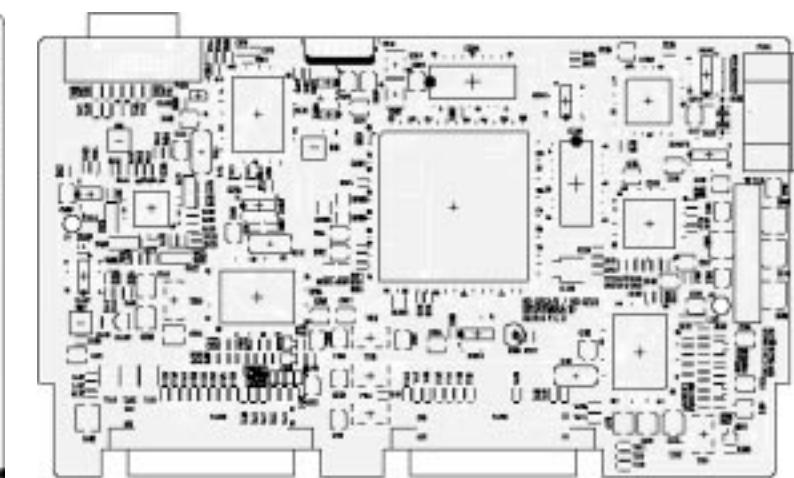




MAIN(TOP)



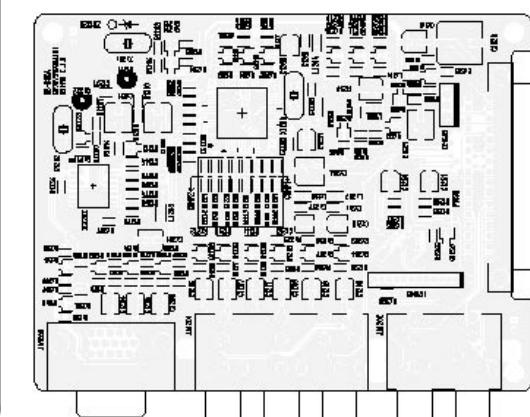
MAIN(BOTTOM)

PRINTED CIRCUIT BOARD  
DIGITAL(TOP)

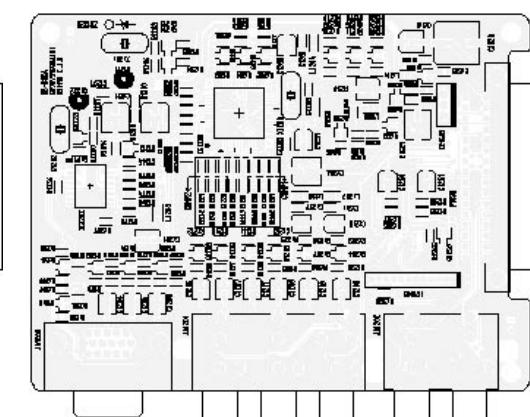
DIGITAL(BOTTOM)



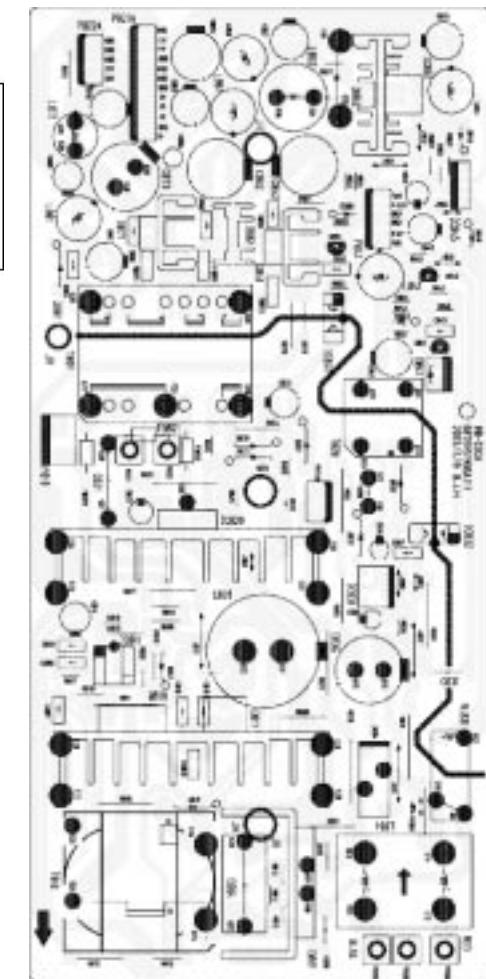
COMPONENT(TOP)



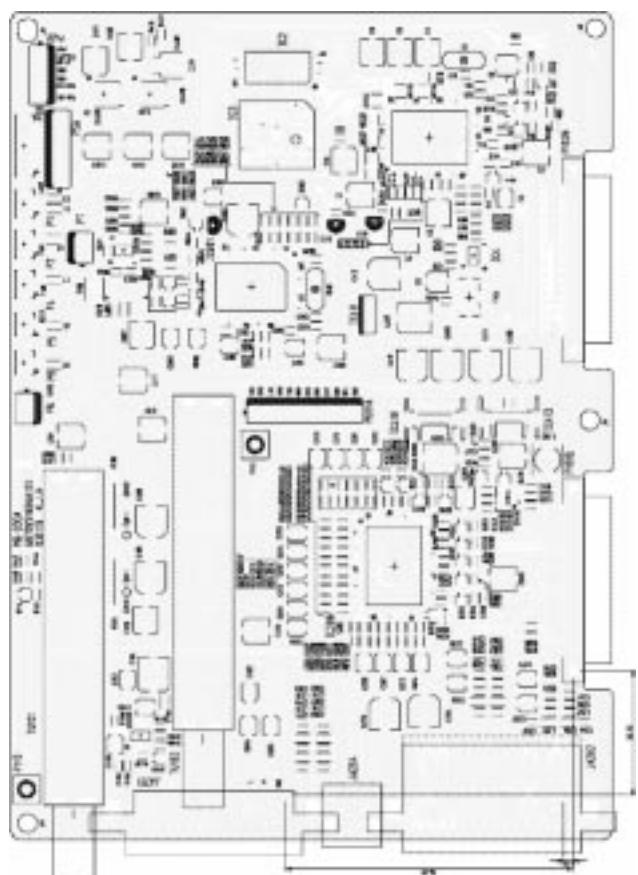
COMPONENT(BOTTOM)



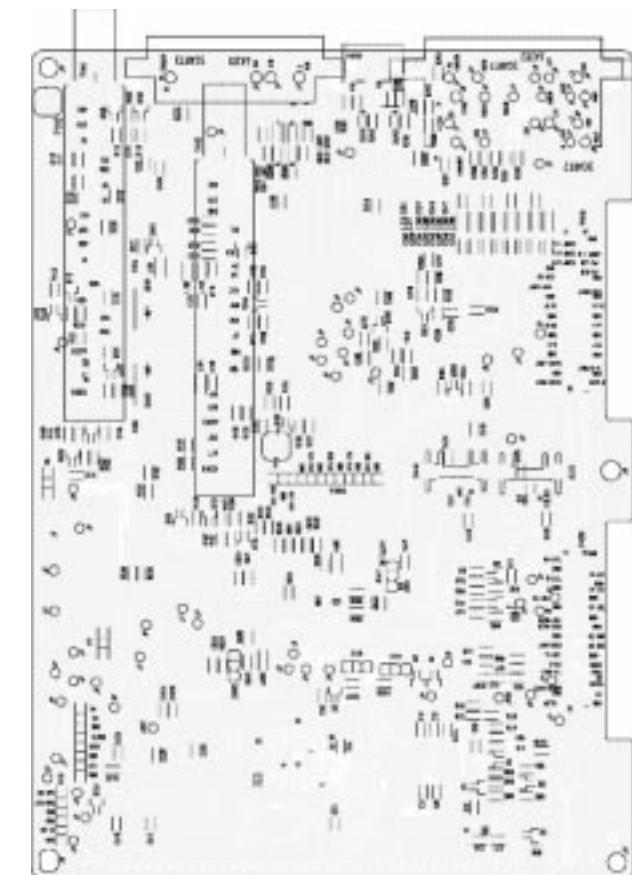
SMPS



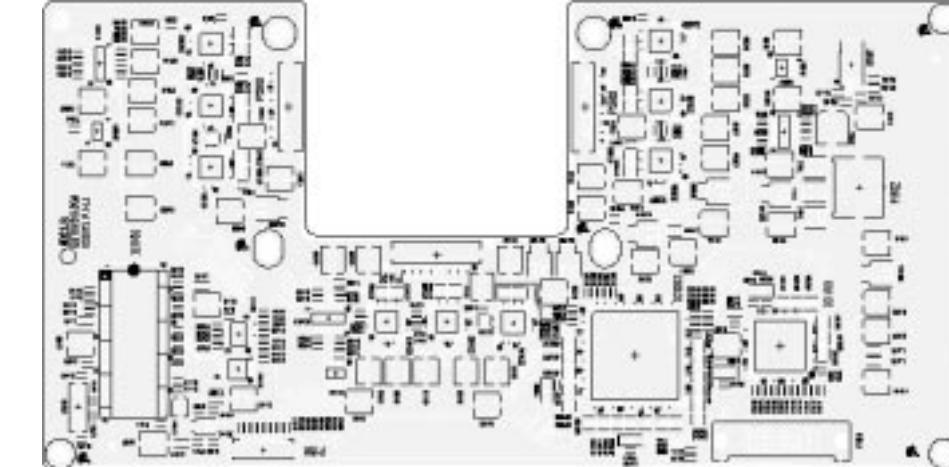
TUNER(TOP)



TUNER(BOTTOM)



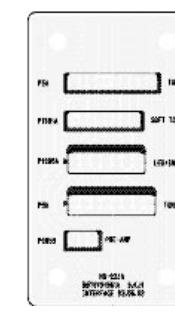
DRIVER(TOP)



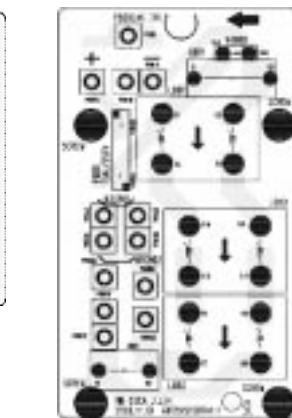
DRIVER(BOTTOM)



SIDE A/V



AC-INPUT

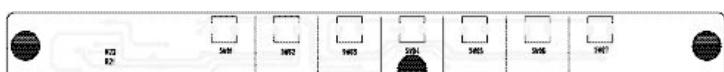


RT-44/52SZ50LP

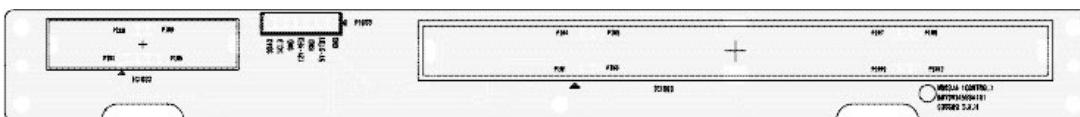
CONTROL(TOP)



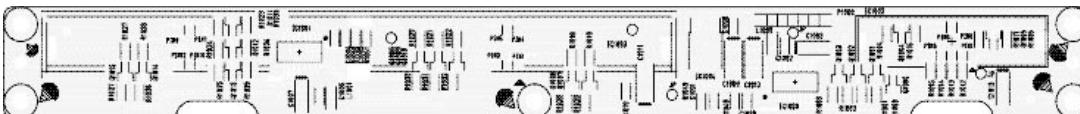
CONTROL(BOTTOM)



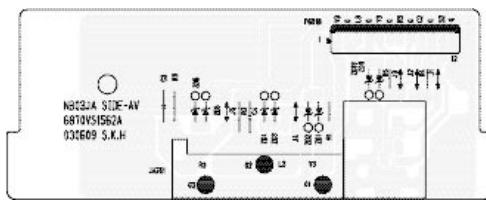
LED(TOP)



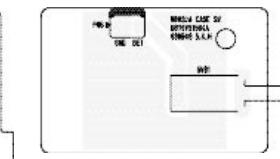
LED(BOTTOM)



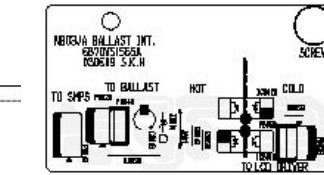
SIDE AV



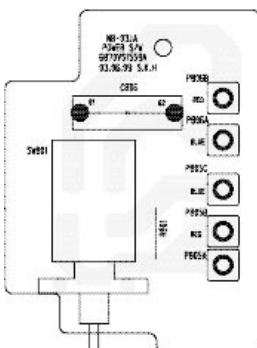
CASE SW



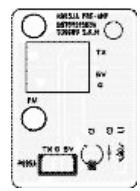
BALLAST



POWER S/W

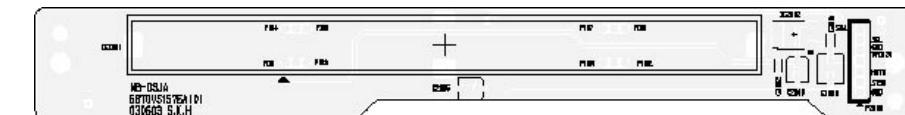


PRE-AMP

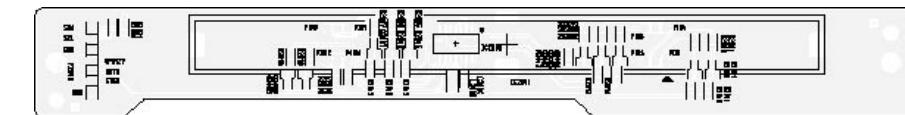


RT-48SZ50LP

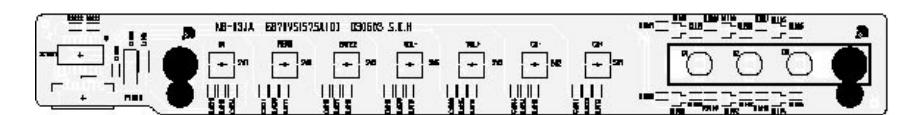
INDEX(TOP)



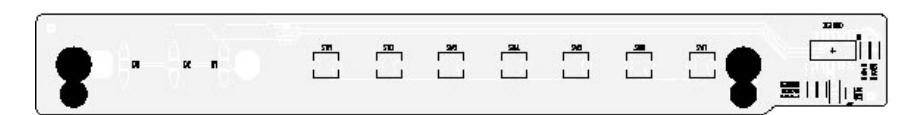
INDEX(BOTTOM)



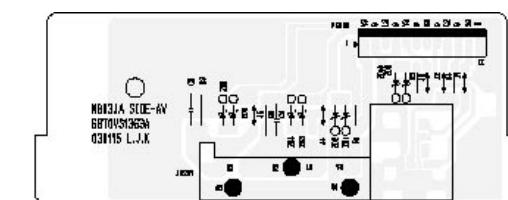
LED(TOP)



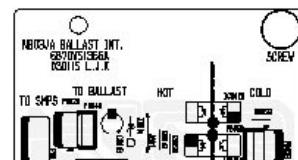
LED(BOTTOM)



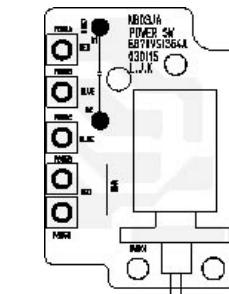
SIDE AV



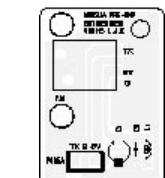
BALLAST



POWER S/W



PRE-AMP



CASE SW

