



LCD Projection TV SERVICE MANUAL

CHASSIS : MB-03CB

MODEL : RT-52/60SZ31RB/RP

CAUTION

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



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by Δ 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 it's 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 it's 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 Ω and 5.2M Ω .

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.

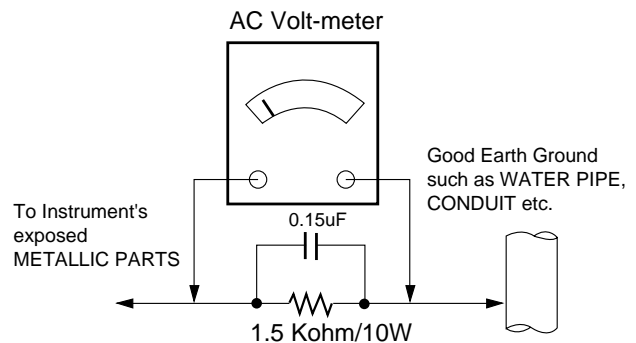
Do not use a line Isolation Transformer during this check. Connect 1.5K/10watt resistor in parallel with a 0.15 μ F capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohm/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 is 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 mall wirebrush (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 y 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.

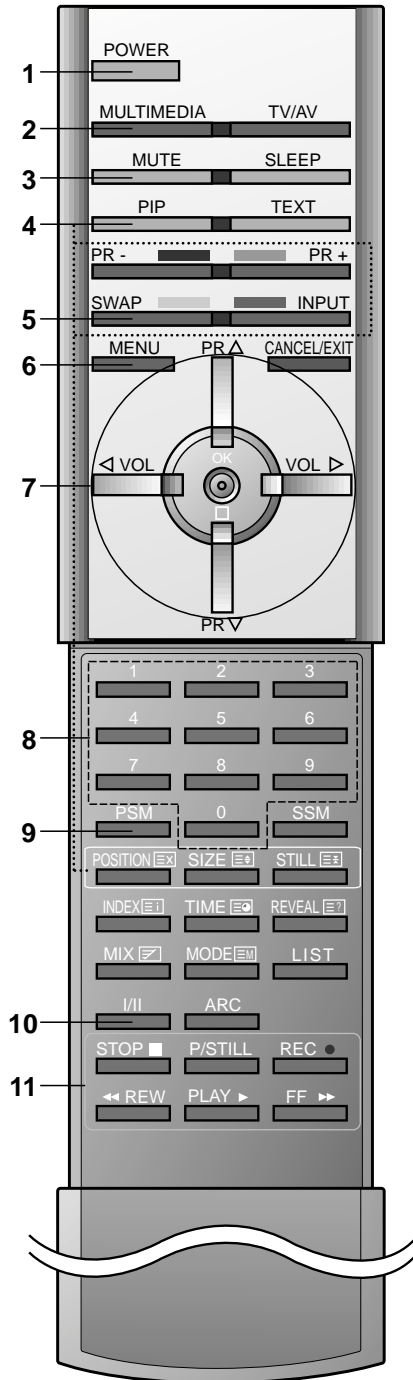
- 1 Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
- 2 Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected 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. **POWER**
switches the set on from standby or off to standby.
2. **MULTIMEDIA**
selects Component 1/2, RGB-DTV or RGB-PC modes.
3. **MUTE**
switches the sound on or off.
4. **PIP BUTTONS**
PIP
switches the sub picture on or off.
PR +/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT
selects the input mode for the sub picture.
SIZE
adjusts the sub picture size.
STILL
freezes motion of the sub picture.
POSITION
relocates the sub picture in clockwise direction.
5. **SWAP**
returns to the previously viewed programme.
6. **MENU**
selects a menu.
7. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
8. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
9. **PSM (Picture Status Memory)**
recalls your preferred picture setting.
10. **I/II**
selects the language during dual language broadcast.
selects the sound output.
11. **VCR BUTTONS**
control a LG video cassette recorder.

12. TV/AV

selects the remote operating mode.
switches the set on from standby.

13. SLEEP

sets the sleep timer.

14. TELETEXT BUTTONS

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

15. CANCEL/EXIT

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

16. SSM (Sound Status Memory)

recalls your preferred sound setting.

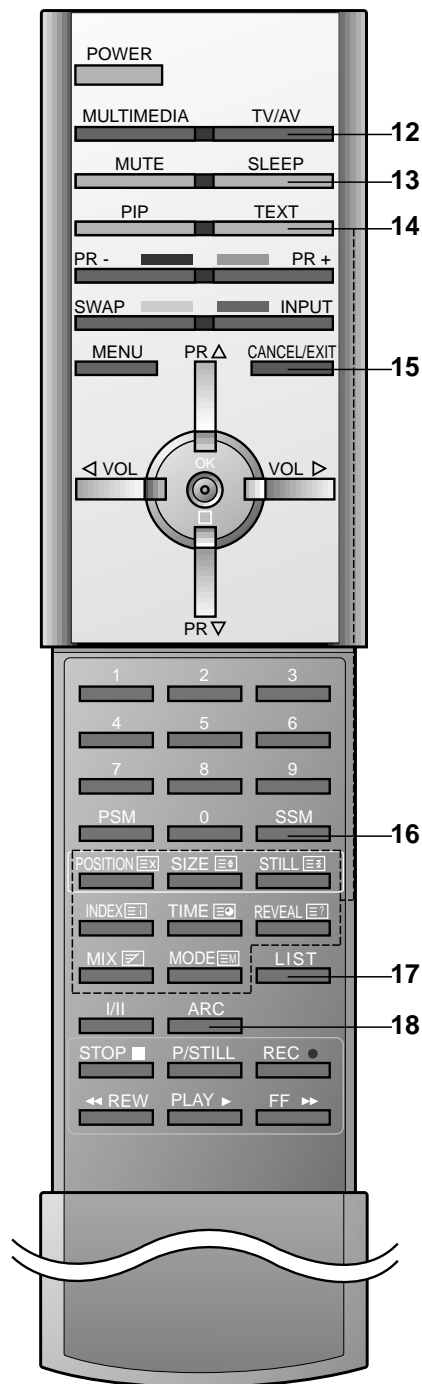
17. LIST

displays the programme table.

18. ARC (Aspect Ratio Control)

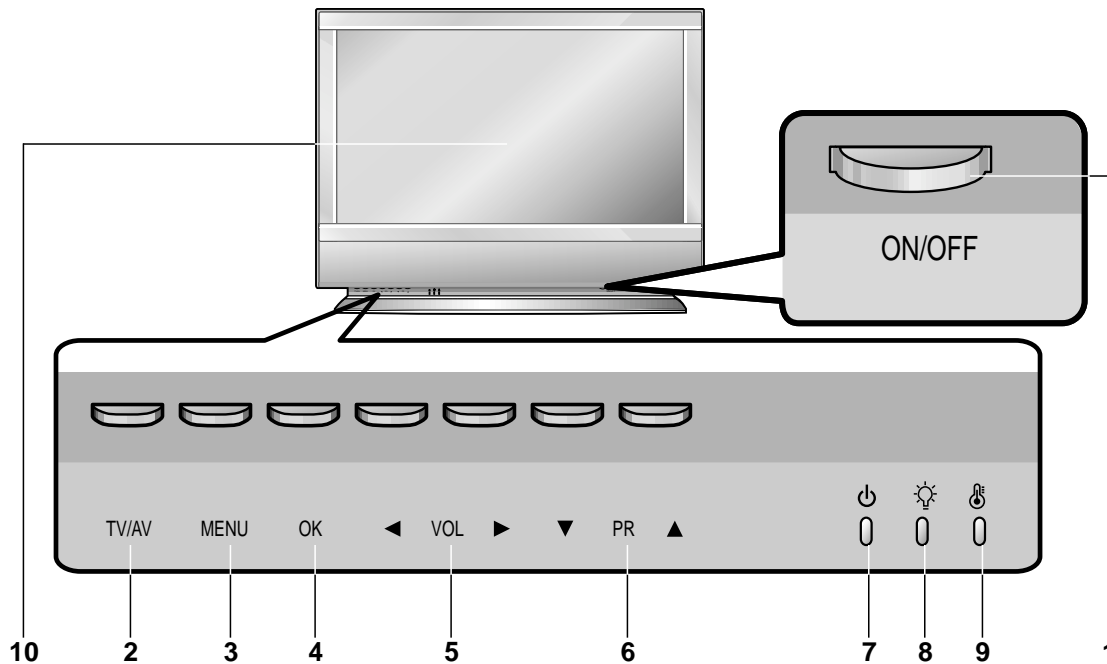
changes the picture format.

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



Front panel

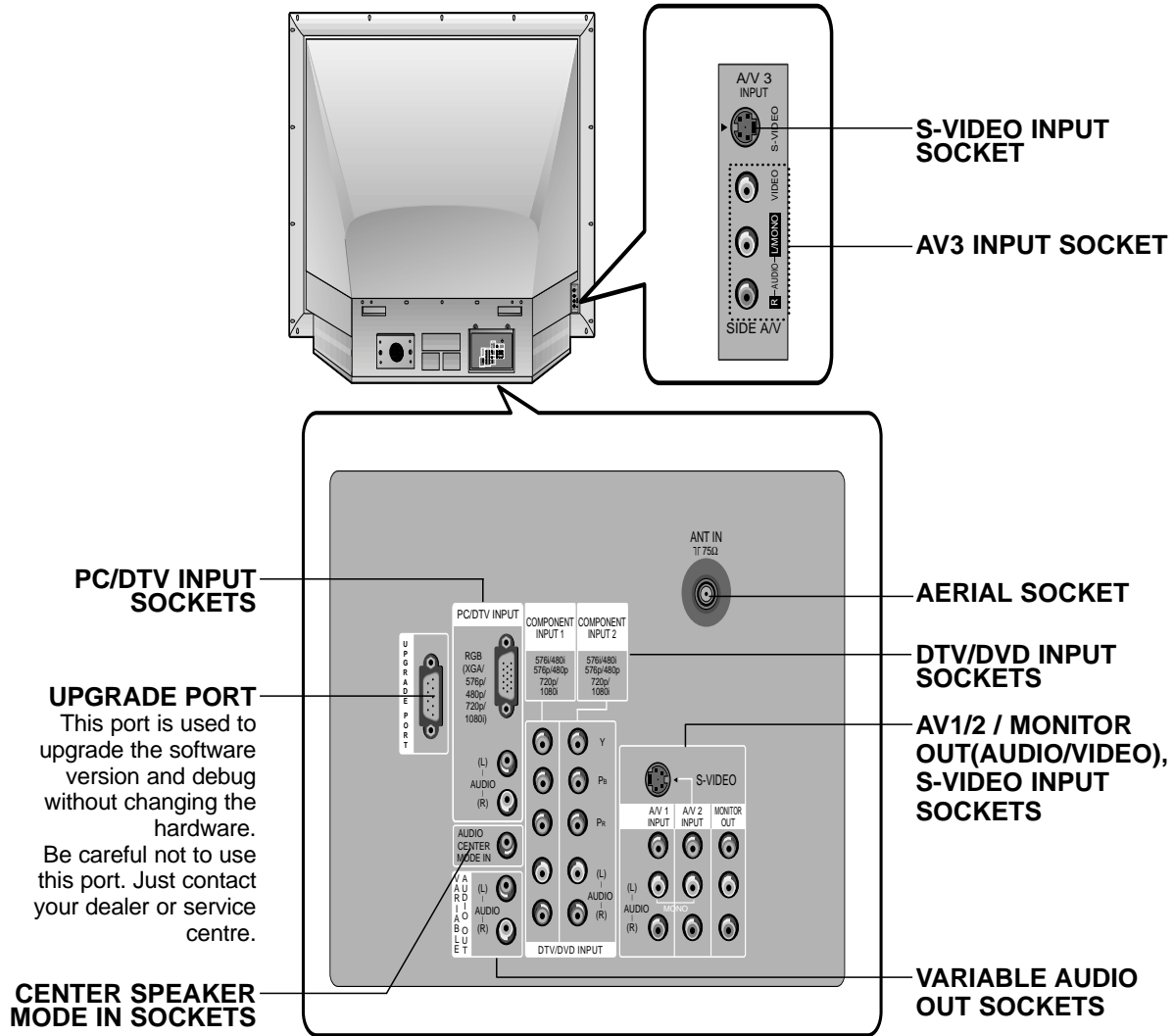
Lamp indicator, operation indicator, and temperature indicator, located below the front panel controls reveal the operating status of the LCD projection TV.



- 1. MAIN POWER (ON/OFF)**
switches the set on or off.
- 2. TV/AV**
selects the remote operating mode.
switches the set on from standby.
- 3. MENU**
selects a menu.
- 4. OK**
accepts your selection or displays the current mode.
- 5. ◀ / ▶ (Volume Down/Up)**
adjusts the volume.
adjusts menu settings.
- 6. ▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
- 7. OPERATION INDICATOR** (Refer to p.7)
- 8. LAMP INDICATOR** (Refer to p.7)
- 9. TEMPERATURE INDICATOR** (Refer to p.7)
- 10. 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-52/60SZ31RB/RP)

Model Name	Market Place	Remark
RT-52/60SZ31RB/RP	Australia	- RB :Teletext
	China	- RP :W/O Teletext
	Morocco	option

■ 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

■ Test Condition

- 1) Temperature :25_i 5°C
- 2) Relative Humidity:65_i 10%
- 3) Power Voltage:Standard input voltage(110-240~, 50/60Hz)
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 NTSC - M, 4.43				Only AV input signal for NTSC - 4.43
2	Available Channel	(1) VHF : E02 ~ E12 UHF : E21 ~ E69 CATV : S01 ~ S20 HYPER : S21 ~ S41				
3	Input Voltage	110-240V~, 50H/60Hz				
4	Market	Non-EU				
5	Screen size	52, 60 inch				
6	Aspect ratio	16:9 (wide)				
7	Operating Temperature	0		40	deg	
8	Operating Humidity			85	%	
9	Storage Temperature	-20		60	deg	
10	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				
4.	Center Speaker Mode Input	1				
5.	Component Audio (R, L) Input	2	L/R			
6.	Component Input	2	Y, P _B , P _R			
7.	AV Input	3	(1 Side / 2Rear)			
8.	S-Video Input	2	(1 Side / 1Rear)			
9.	Monitor out	1	1Rear			
10.	Variable Audio out	1				
11.	Serial Port	1				RS-232C
12.	Local key	Power, Menu, ok, Volume (◀, ▶) Channel (▲, ▼)				
13.	Picture, EZ Video mode	Dynamic/ Standard/ Mild/ Game/ User				
14.	Picture, User Control	Contrast/ Brightness/ Colour/ Sharpness/ Tint				
15.	Display mode	DTV & PC : 16:9/ 4:3/ Zoom/ Auto CVBS : 4:3/ 16:9/ Zoom/ Auto				
16.	Sound, EZ Sound mode	Dolby Virtual/ Flat/ Music/ Movie/ Speech				
17.	Sound Stereo/ Dual	A2 : B/ G, D/ K, NICAM : B/ G, D/ K, I, L/ L'				
18.	PIP/ POP Mode	O				
19.	SSC (Split Screen) Mode	O				
20.	Teletext	FLOP, LIST 128Page				
21.	Timer	Sleep Timer/ Auto Sleep				
22.	OSD Language	Difference by PR				

■ 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	2.4	2.5	2.6	V	
10	DC Voltage, Turning voltage	3.2	3.3	3.4	V	
11	DC Voltage, LCD Driver, 5V	4.8	5.0	5.2	V	
12	DC Voltage, LCD Driver, 17.5V	11.5	12	12.5	V	
13	DC Voltage 3.3, SUB MICOM	30	32	33	V	
14	DC Voltage 2.5V, SUB MICOM	4.8	5	5.2	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	1	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 _B / P _B , C _R / P _R)	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	0.5	0.6	Vrms	PAL
12.	Audio Input Frequency Response	0.05		10	kHz	

■ Component Video Input (Y, P_B, P_R)

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		EDTV 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		1			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		1			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		1			0 : Not Ready to Over-Modulation in DK Mono 1 : Ready to Over-Modulation in DK Mono
6.	system		2			0 : BG / I /D 1 : BG / La 2 : BG / I DK / M
7	Osd Language		0(ENG ONLY)			0 : west EU 1 : East EU 1 2 : East EU 2 3 : Turkey EU 4 : Cyrillic 1
8.	Text Language					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

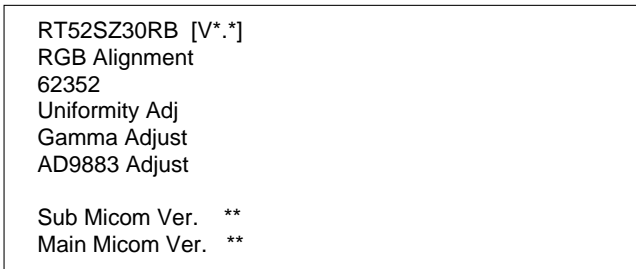
This instruction is for the application to the LCD Projection

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 equipment.
- (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.



<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.



- 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 Equipment

- 1) PC Pattern generator; 16 Gray Pattern
- 2) Fixation stand
- 3) Remote control of 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

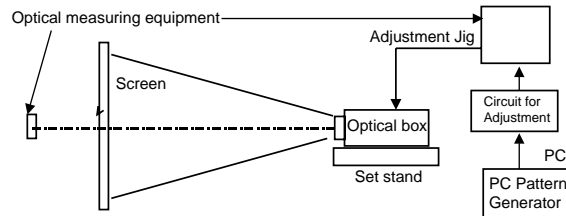
- 1) Turn on power supply in the JIG for adjustment.
- 2) Press the INPUT key to select RGB_PC mode.
- 3) Press the ADJ key on remote control for adjustment to enter the adjustment mode.
- 4) Select the '62352' and press the ▶ key. Then select 6. RNRSH, 9.GNRSH, 11.BNRSH of ADJUST MODE to adjust.
- 5) 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

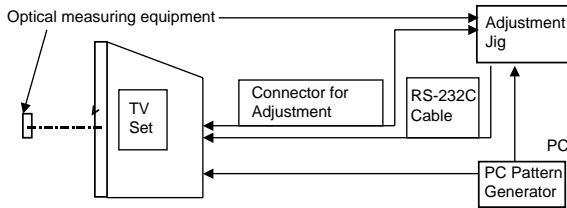
(1) Required Test Equipment

- 1) PC PATTERN GENERATOR ; Pattern Generator which can generator 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>



<Fig 2. TV set status Adjustment>

(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.

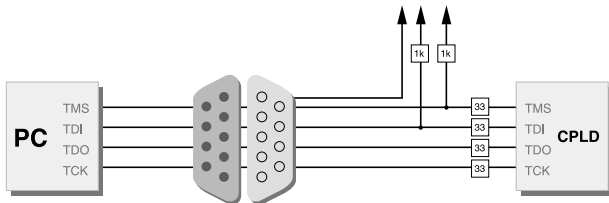
(4) Adjustment Sequence

- 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 Equipment & 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. Assembling Adjustment

6-1. Screen Tilt & Keystone Adjustment

(1) Required Test Equipment

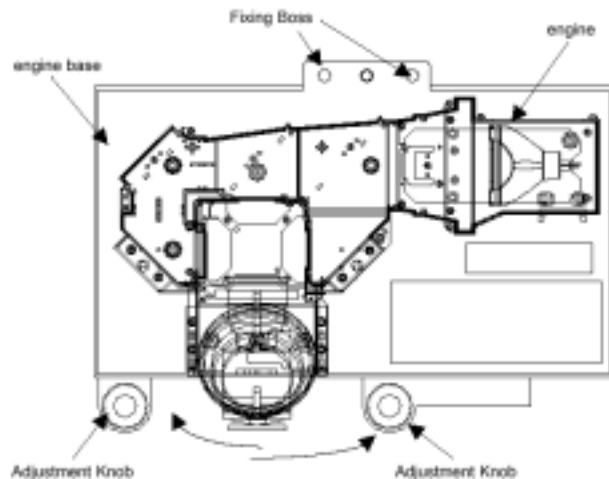
- 1) Six angles wrench and spanner for knob adjustment or fixation
- 2) Remote control

(2) Preparation for Adjustment

- 1) Do not assemble the front panel equipment so that you can adjust the adjustment knob of <Fig 5>
- 2) Turn on TV and press EYE key on remote control.
- 3) 11th screen - Select the pattern of small white squares, diagonal and a big red square.

(3) Adjustment Sequence

- 1) Stick the Engine of <Fig 5> to the knob poll for adjustment and check the key stone & tilt watching TV screen.
- 2) Rotate left/right adjustment knob bellow and adjust engine angle.
- 3) Adjust the adjustment knob of both sides so that the tilt and keystone are to be under the spec.(The gap between max and min : under 4mm)
- 4) After adjusting like 3), fix the engine with the screw for



<Fig 5>

fixation.(2EA. adjustment knob and engine fixing screw)

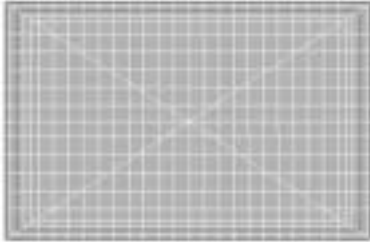
6-2. Screen Position Adjustment

(1) Required Test Equipment

A remote control of adjustment

(2) Preparation for Adjustment

- 1) Turn on TV and press the EYE key on service remote.
- 2) Display pattern <Fig 6> as same as screen tilt & keystone adjustment.



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

(3) Adjustment Sequence

- 1) Adjust the horizontal position as change the data to symmetrized Left/Right of above pattern using the VOL+(▶) VOL-(◀) key on the service remote.
- 2) Adjust the horizontal position as change the data to symmetrized Up/Down of above pattern using the CH+(▲) CH-(▼) key on the service remote.
- 3) After finishing the adjustment, receive the PAL-B/G Digital pattern (EU-05CH) to check the status of adjustment.



[EU 05 CH]

6-3. Component Offset Adjustment

(1) Required Test Equipment :

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 15 minutes and over before adjustment.
- 3) Receive the Component 1 or 2.
- 4) Receive the 720P, HozTVBar Pattern of 801GF(Fig 7).



<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

6-4. White Balance & Gamma Adjustment

(1) Required Test Equipment

- 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, G contrast, 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:294.
 - * When white balance x:283, y:294 in VDP PATTERN, picture signal is set to x:283, y:297, in as a matter of fact.
- 4) Measure the luminance with changed data.
- 5) Set the every Gamma data of 16 step to 2.5 on the basis of measured luminance data in 3).
 - (Max luminance $\times (n1/16)^{2.5}$ --- 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=294 and measured step luminance in 5).
- 7) Output the 240, 240, 240 (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).
- 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).

(5) Sequence of Gamma manually adjustment

This is adjustment (after finish the 3-4) to check whether Gamma/ White balance adjustment are well adjusted and make correction manually.

- 1) Prepare the PC Pattern Generator which is possible to output R/G/B of 16 step Gray Pattern.
- 2) Equipment composition : Follow <Fig. 2>.
- 3) Turn on the Jig for adjustment.
- 4) Select the RGB_PC by pressing the input select button on Remote Control.
- 5) Output the 16 Gray Pattern in PC Pattern Generator. Check it with the naked eye whether Screen Gamma and White balance is right about each Gray. If it's not, press the ADJ button on Remote Control and then adjust the level data of each step manually.in "Gamma adjust".
- 6) Output the 64 Gray Pattern in PC Pattern Generator. Check it with the naked eye whether Screen Gamma and White balance is right about each Gray or whether there is Gamma noise. If there's any problem, adjust in 5)
- 7) After finishing adjustment, exit adjustment mode by using ADJ button on Remote Control.

6-5. White Uniformity Adjustment

(1) Required Test Equipment

- 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 2¹⁶) = 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 2¹⁶) = 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(0.00393625 x 2¹⁸) = 0 x 0400
-> L1H(high 9bit) = b'00000010 L1L(low 9bit) = b'00000000

- calculate L2, L3 same with L1

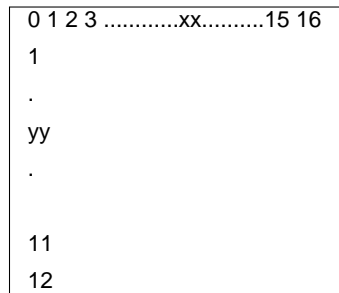
L2 coefficient = 1/(brightness level(MID1) - brightness level(MID2))
L3 coefficient = 1/(brightness level(MAX) - brightness level(MID1))
: case of 4 brightness Level

- 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 MINIMUM 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 MINIMUM 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 MINIMUM 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) Write the miner, middle, maximum data for each point to confront to each MICOM address.

6-6. Brightness Adjustment of Main/Sub screen

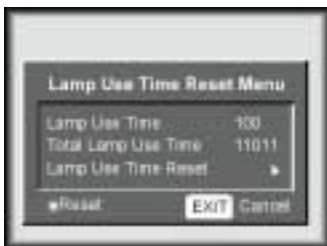
Operate this adjustment when the brightness of Main/Sub screen is different.

- (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.
- 1) Adjusting Main screen
 - Press the "IN Start" key on service remote to select VPC3230_Main.
 - Adjust to Luma Contrast of adjustment item with Volume key.
 - 2) Adjusting Sub screen
 - Press the "IN Start" key on service remote to select 2. VPC3230_Sub.
 - Adjust to Luma Contrast of adjustment item with Volume key.

6-7. Lamp Replace

Use it when the Lamp time is '0'.

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



<Fig8. Lamp Use Time Reset Menu>



<Fig9. Reset Confirm>

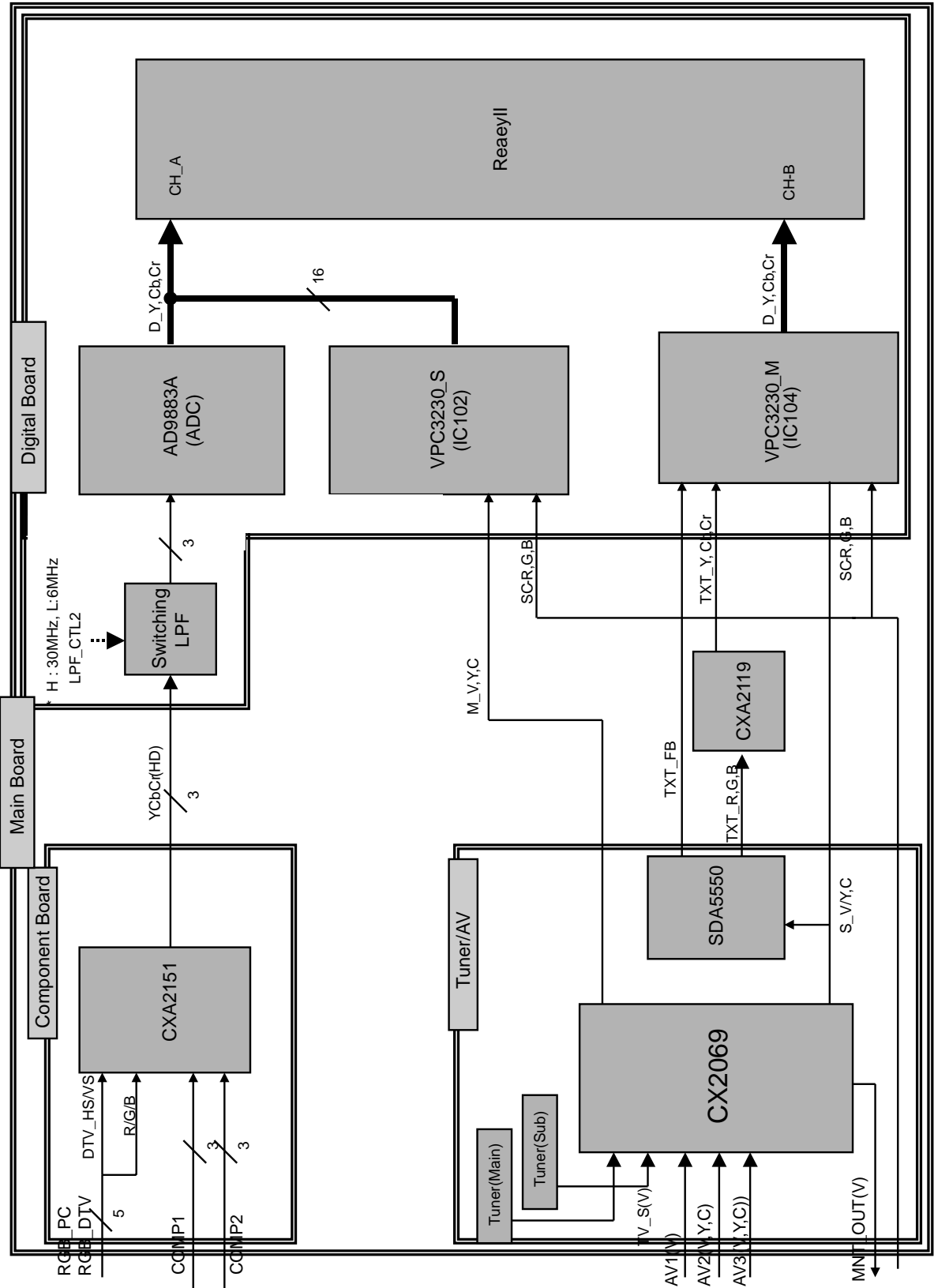
Displaying the OSD as <Fig.8> , press the Volume +(▶)

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

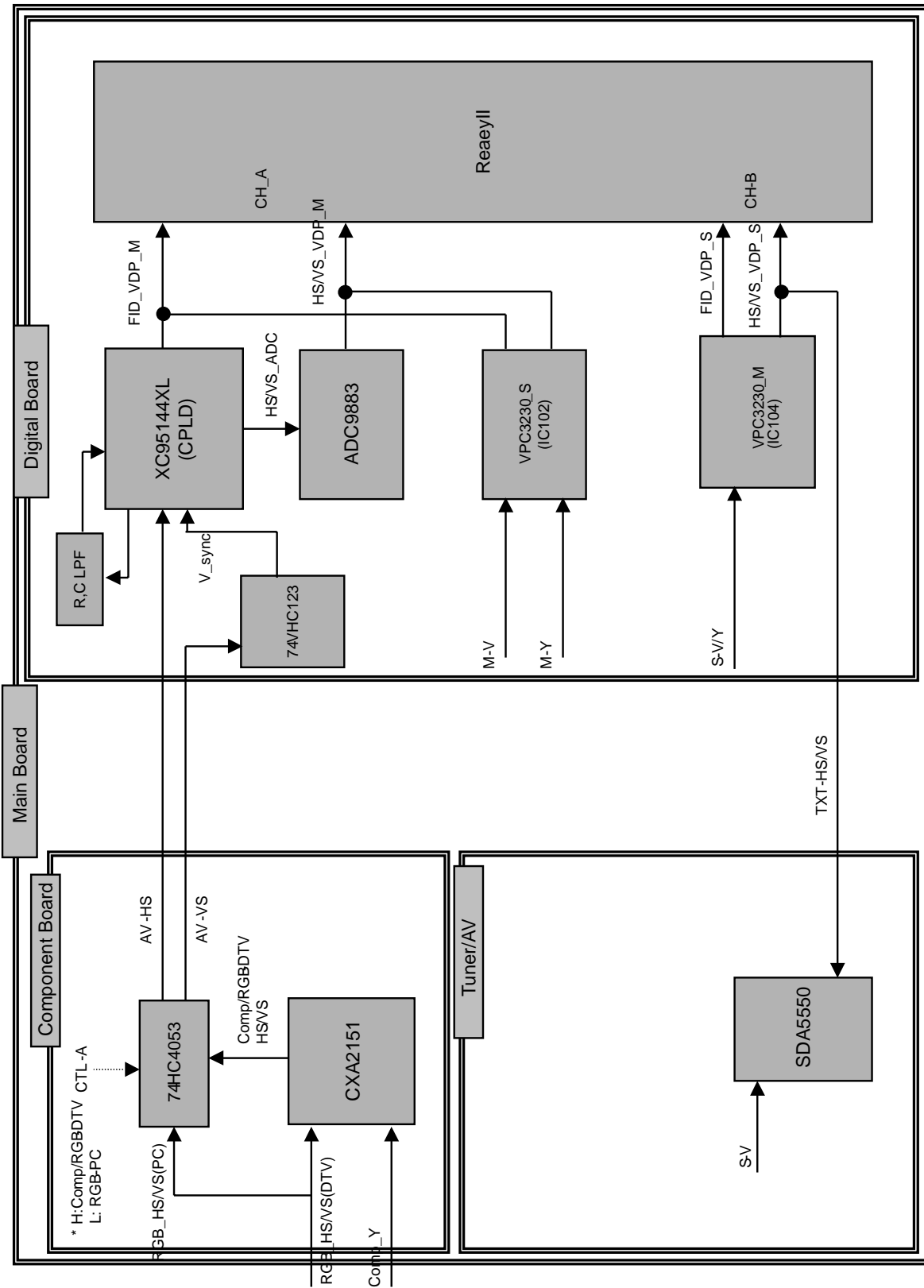
Press the IN-START key on service remote to select Lamp replace and adjust with volume key.

BLOCK DIAGRAM

1. Video Input Path

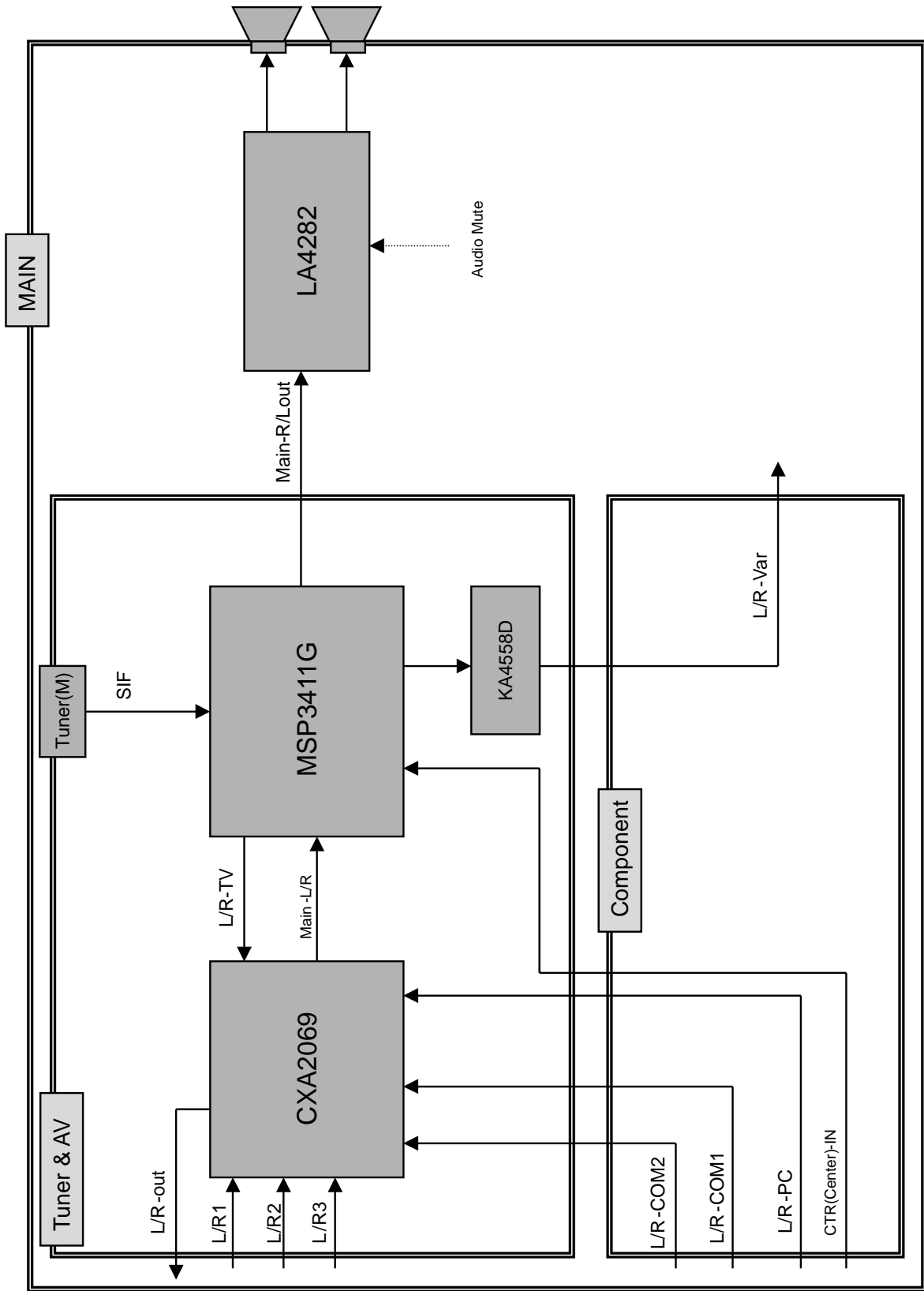


2. Syns I/O Path

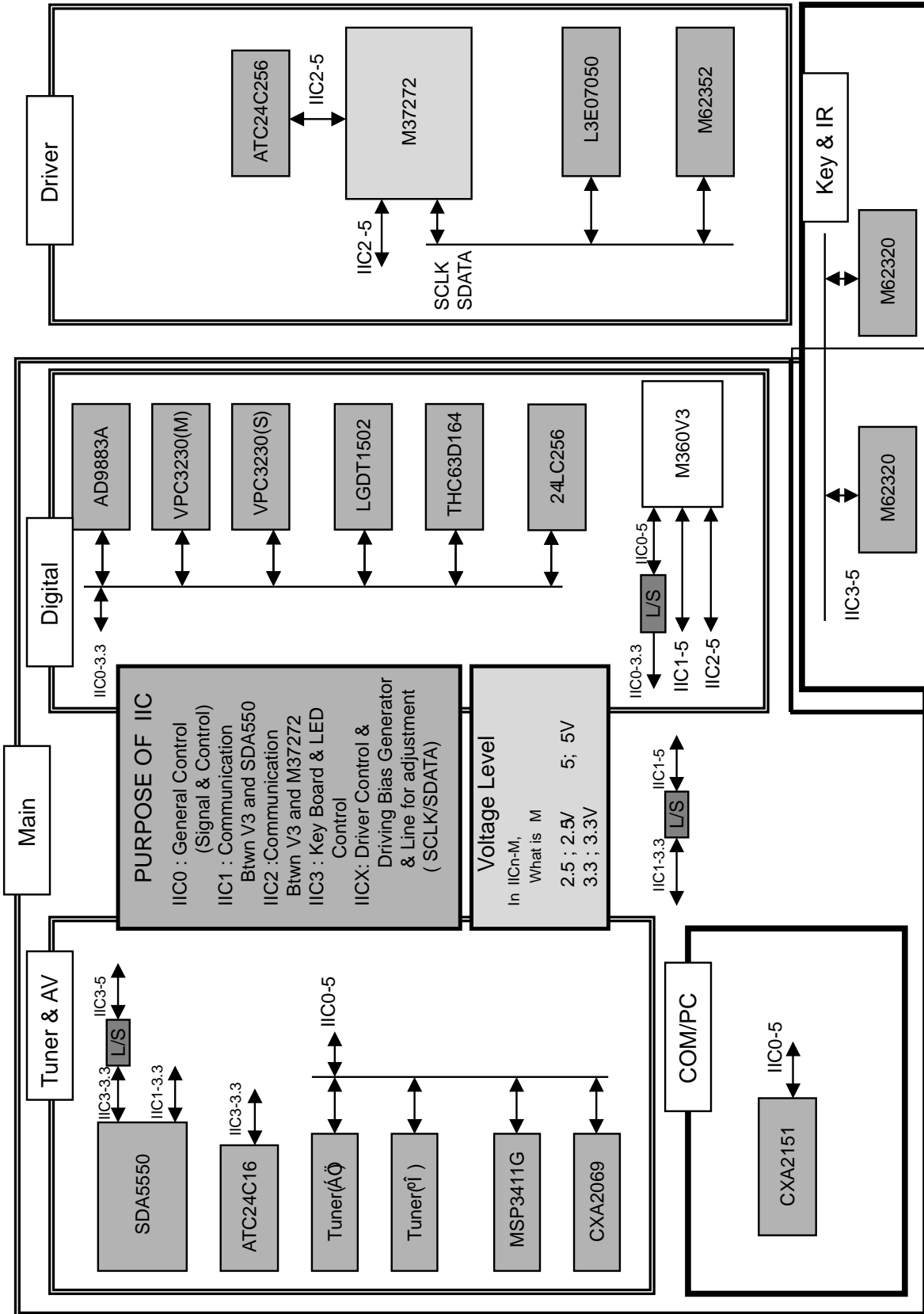


3. Audio Input Path

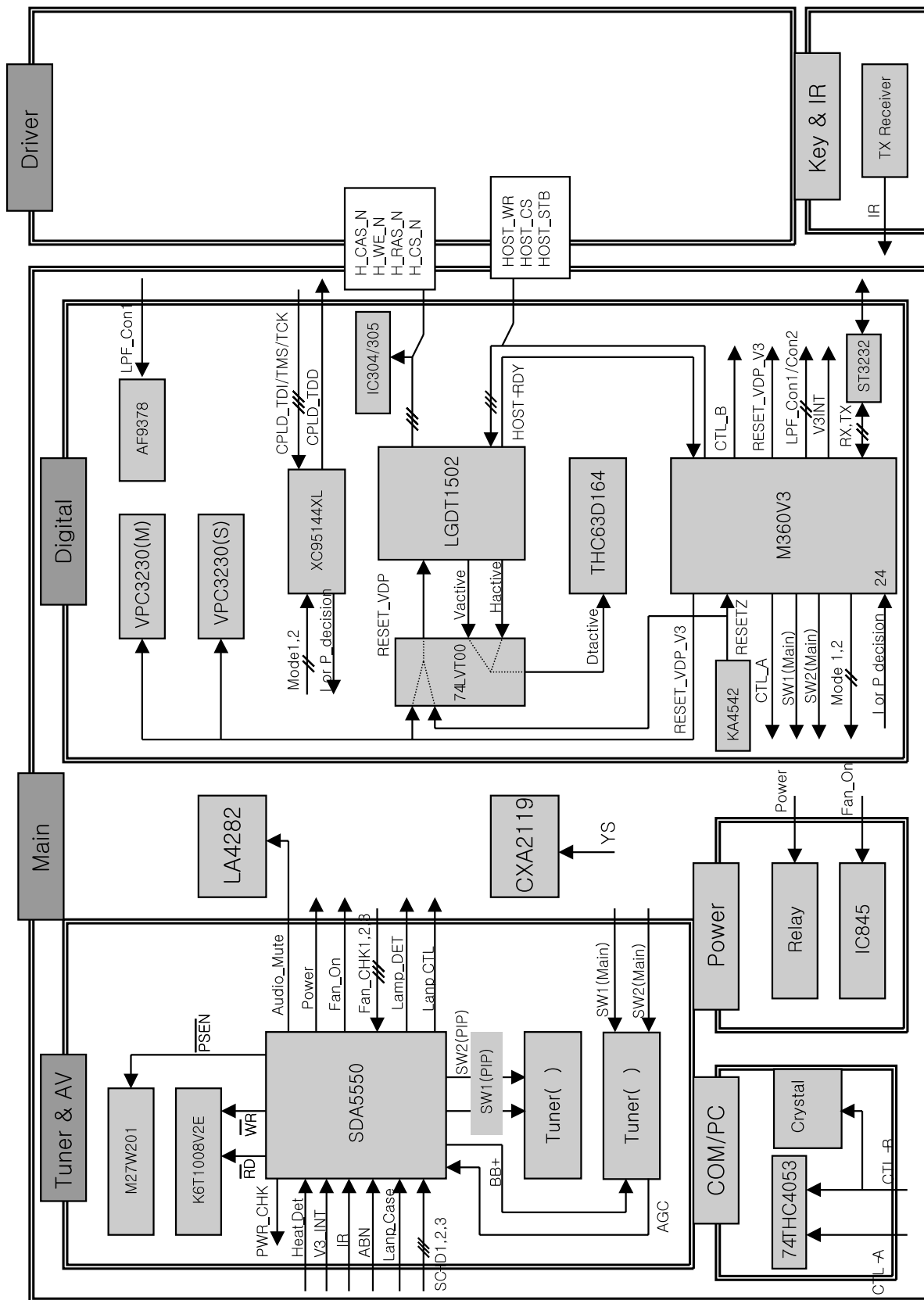
2003.04.30



4. Control Signal Connection Diagram- IIC

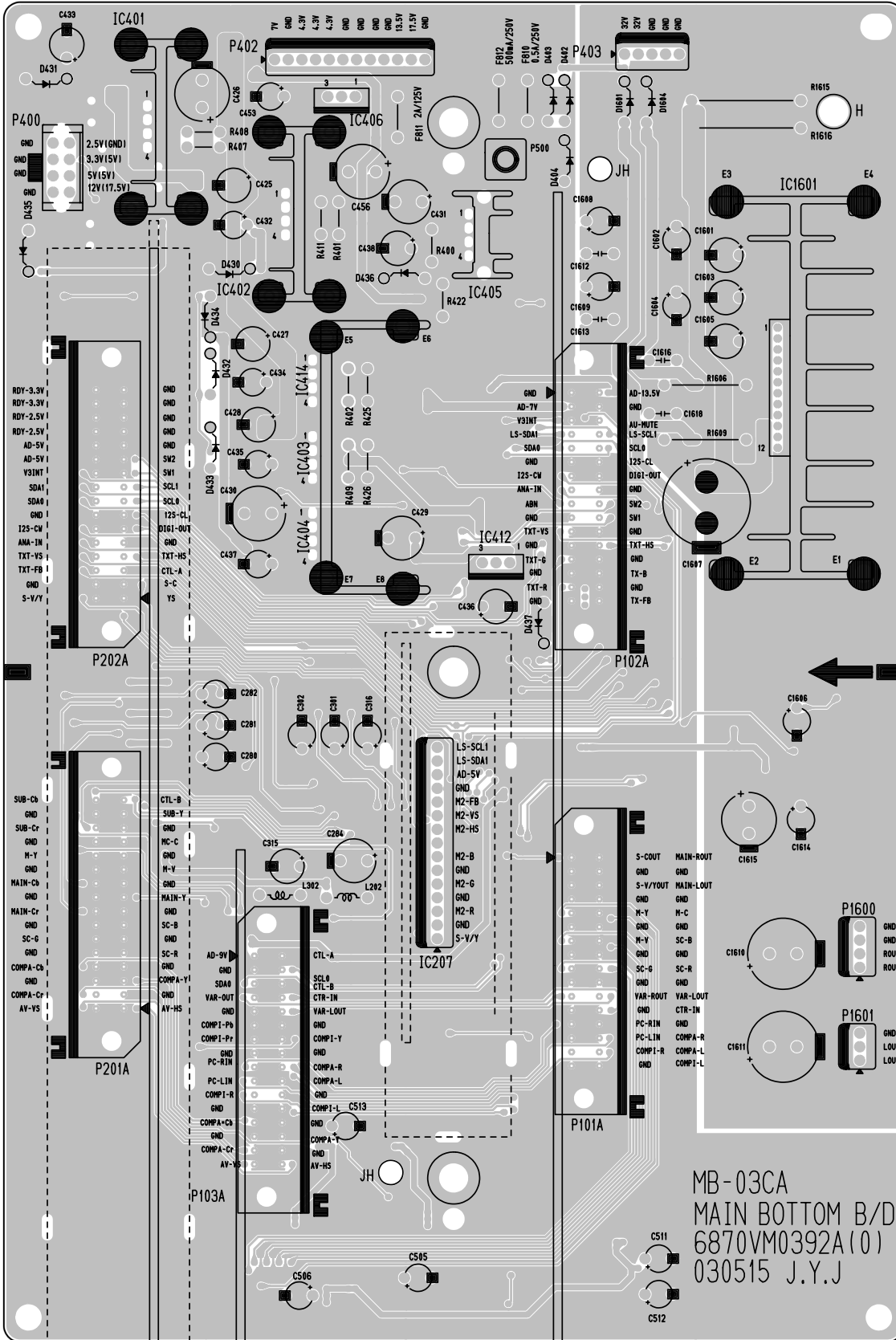


5. General Control Signal

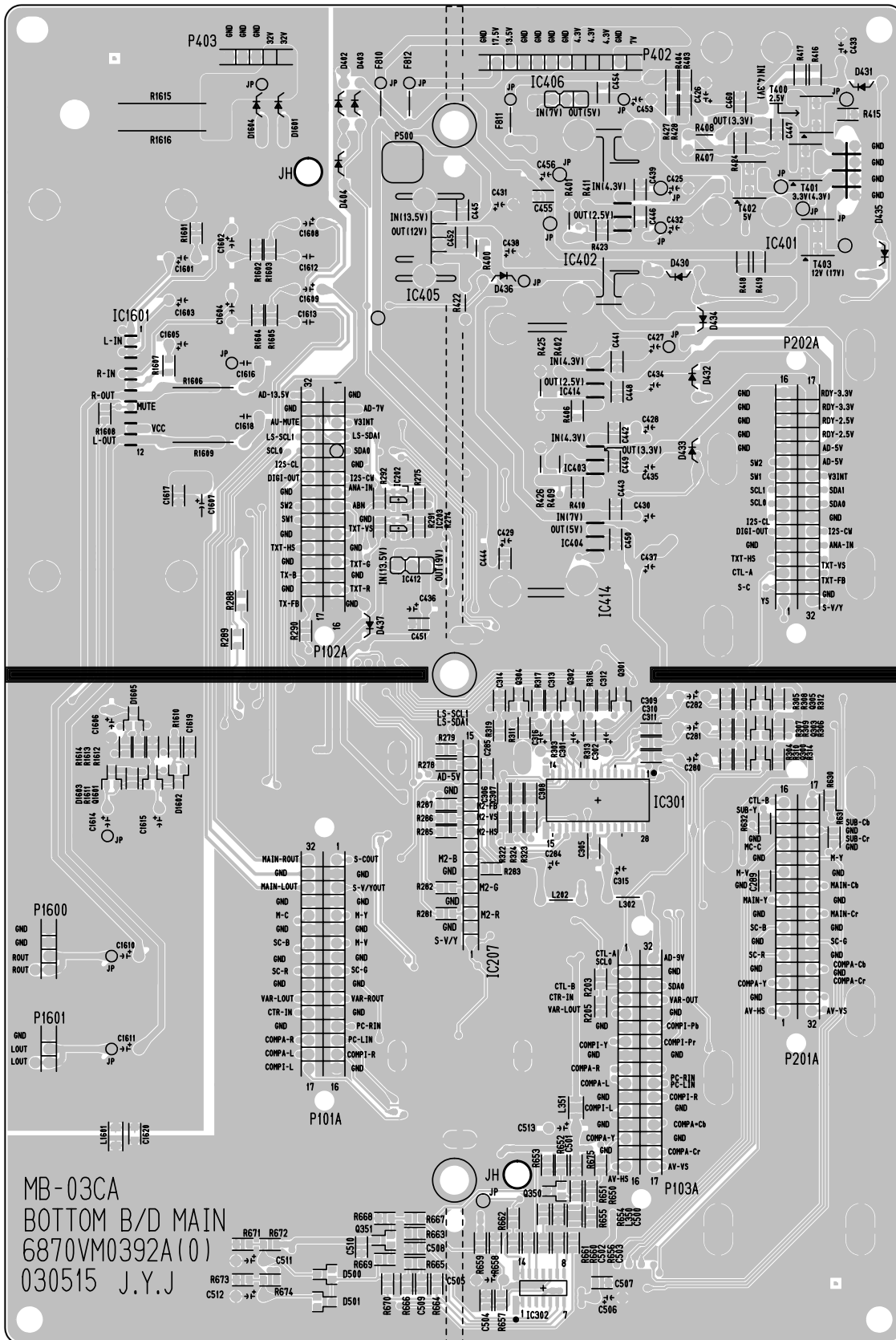


PRINTED CIRCUIT BOARD

MAIN (TOP)

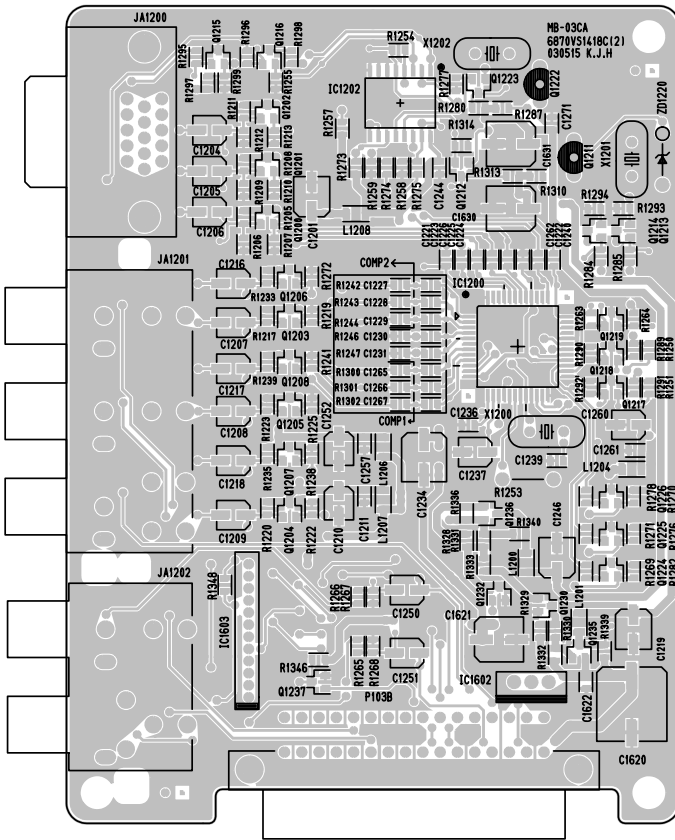


MAIN (BOTTOM)

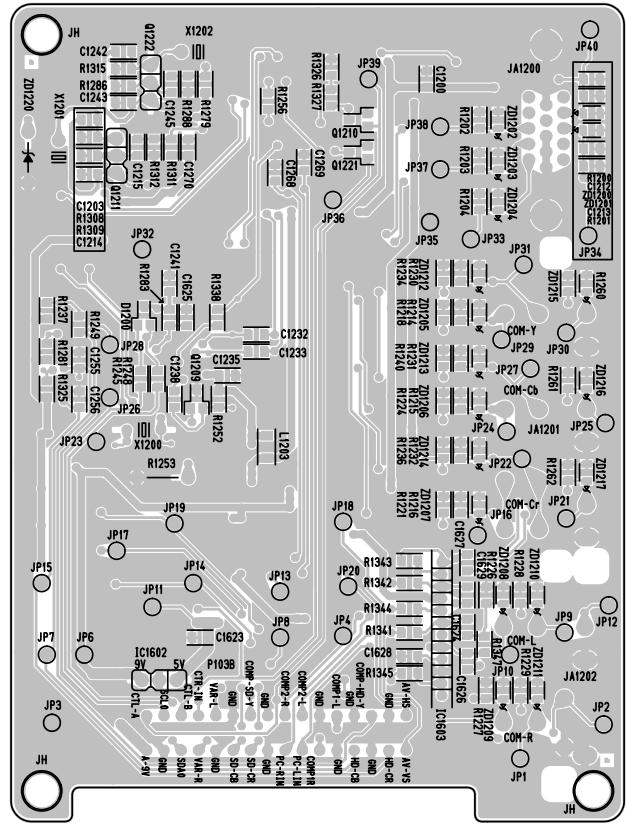


MB-03CA
BOTTOM B/D MAIN
6870VM0392A(0)
030515 J.Y.J

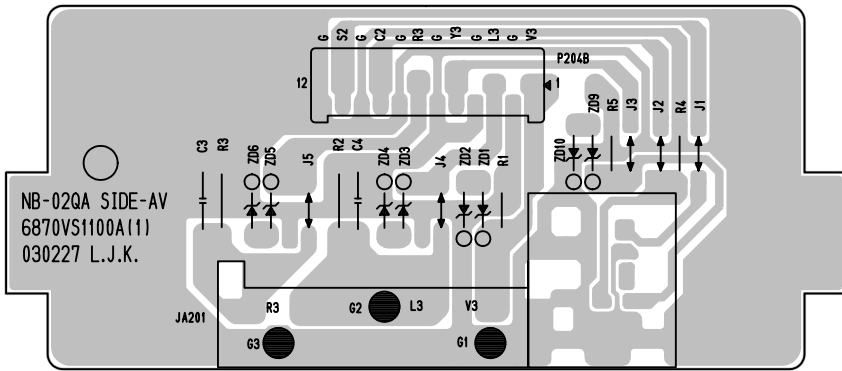
COMPONENT (TOP)



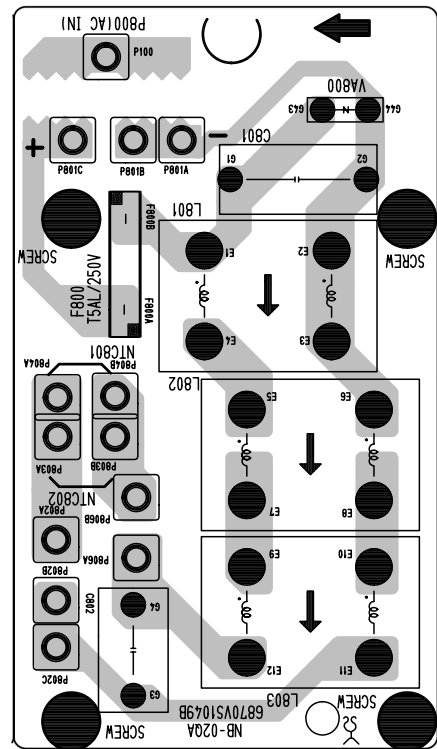
COMPONENT (BOTTOM)



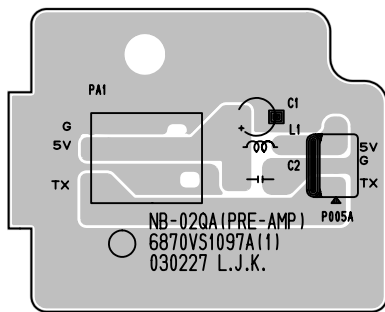
SIDE AV



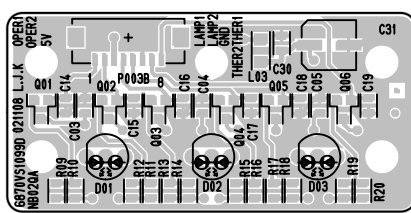
AC INPUT



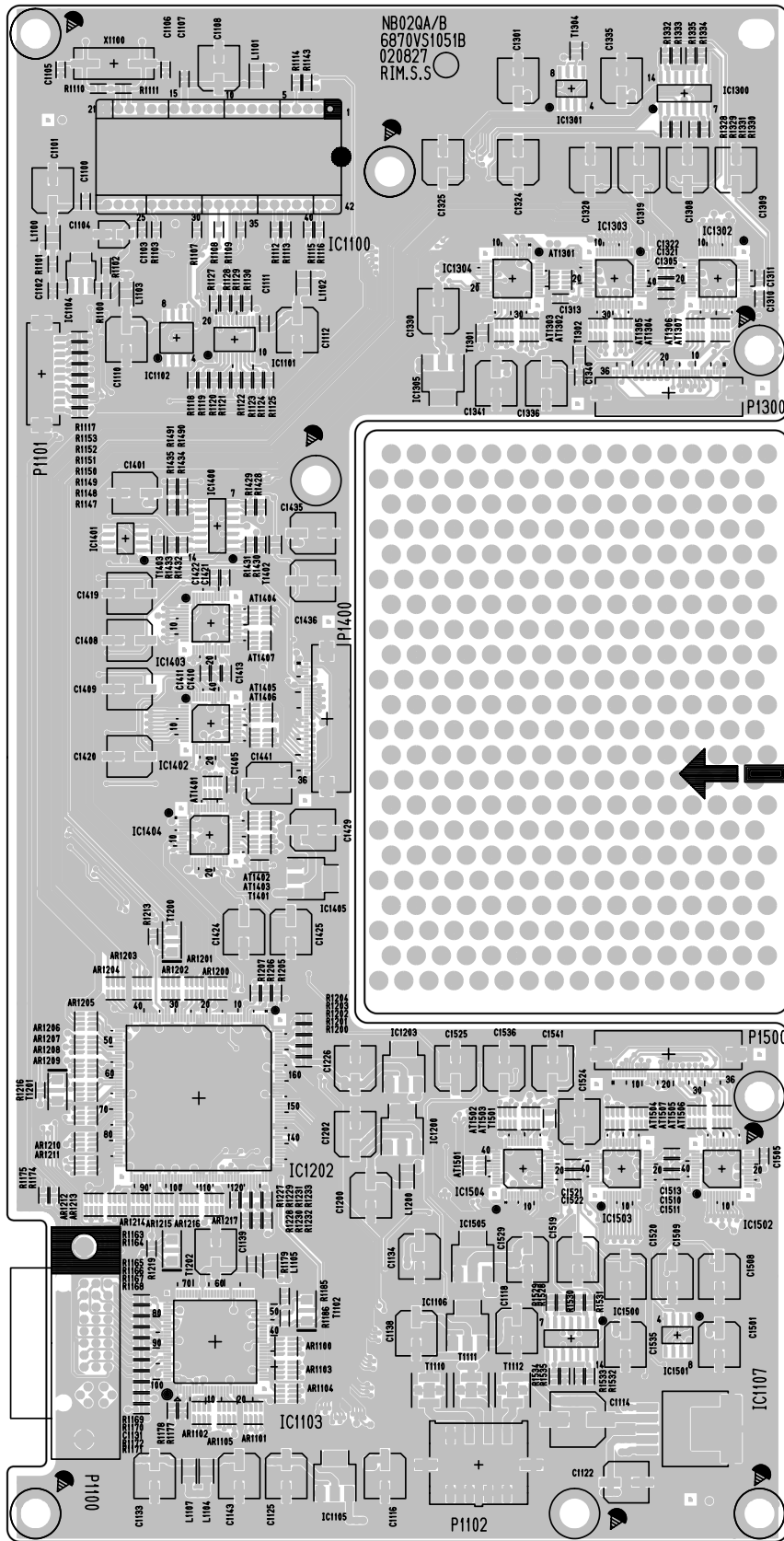
PRE-AMP



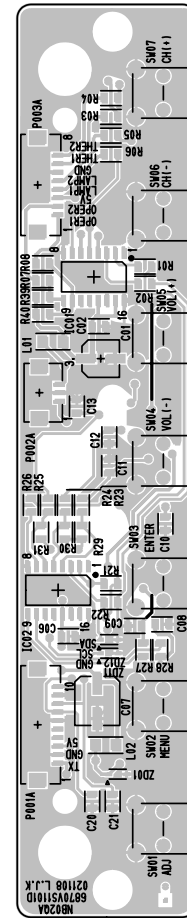
LED



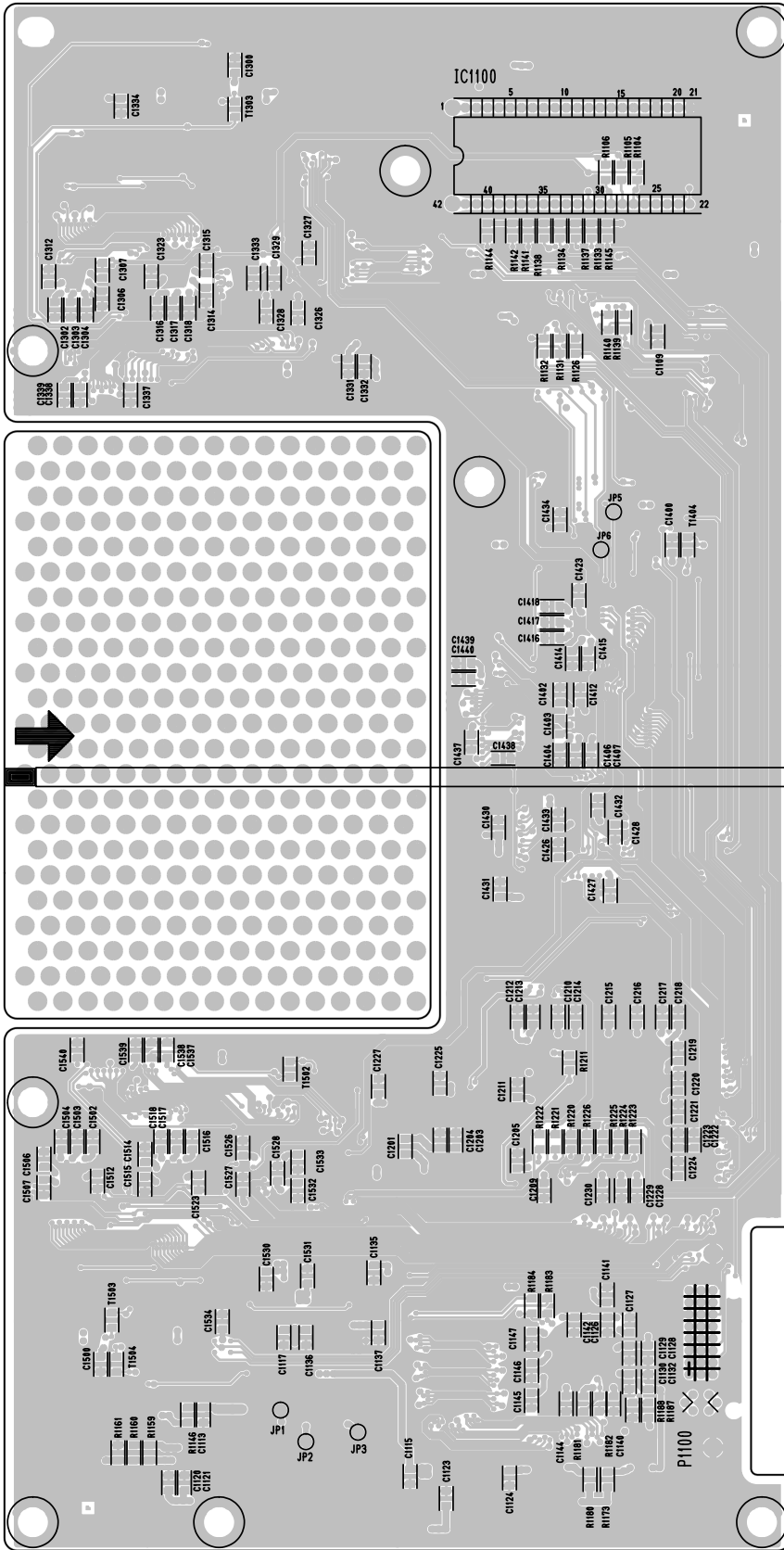
LCD DRIVER (TOP)



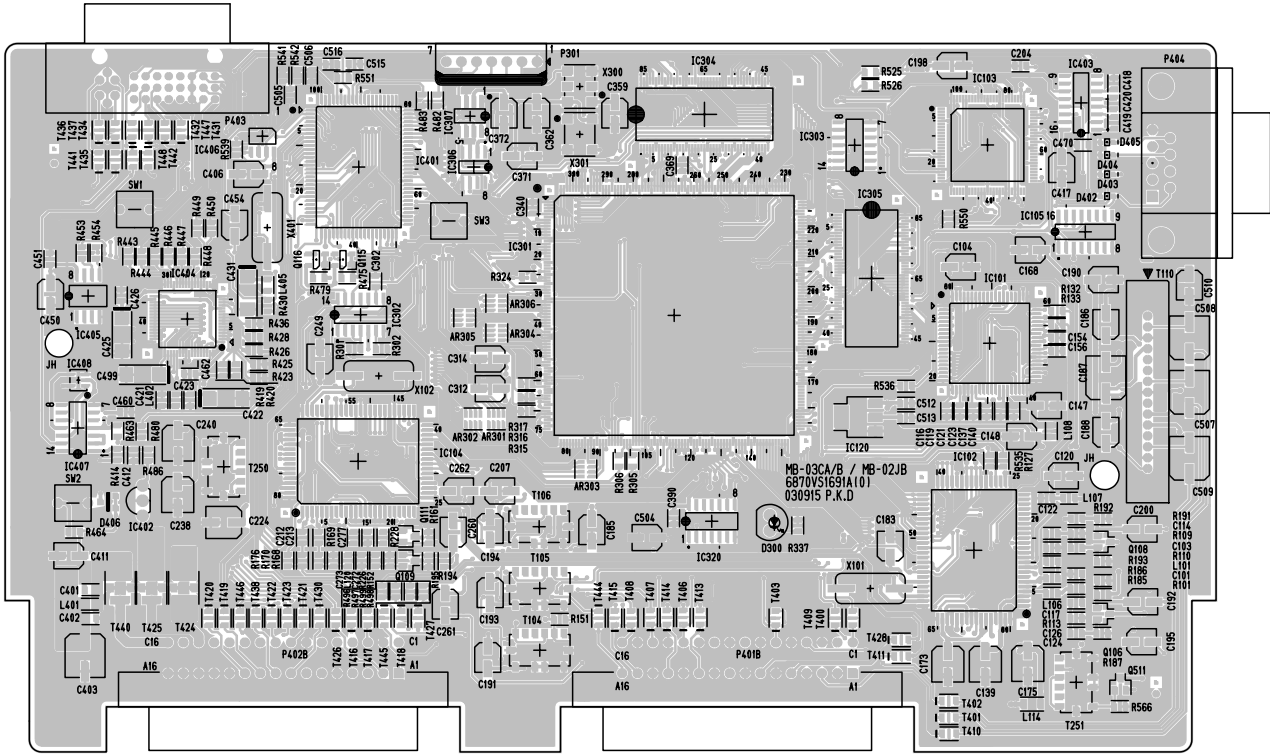
CONTROL



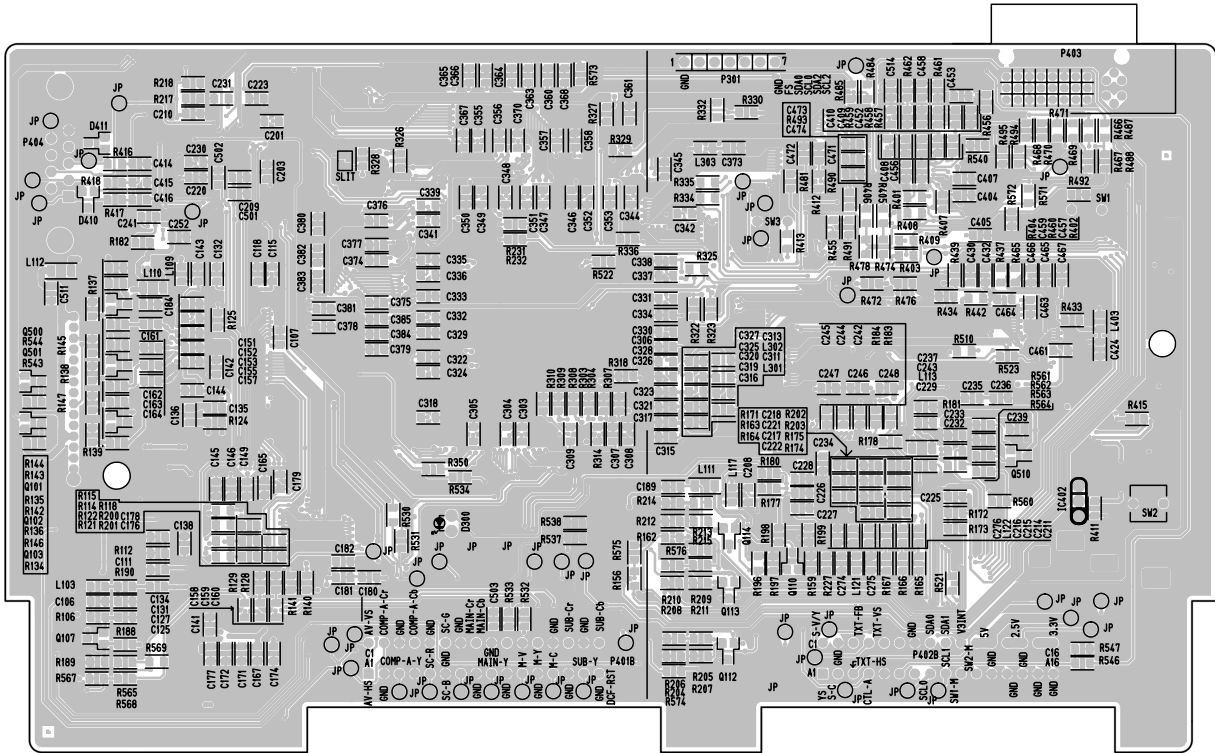
LCD DRIVER (BOTTOM)



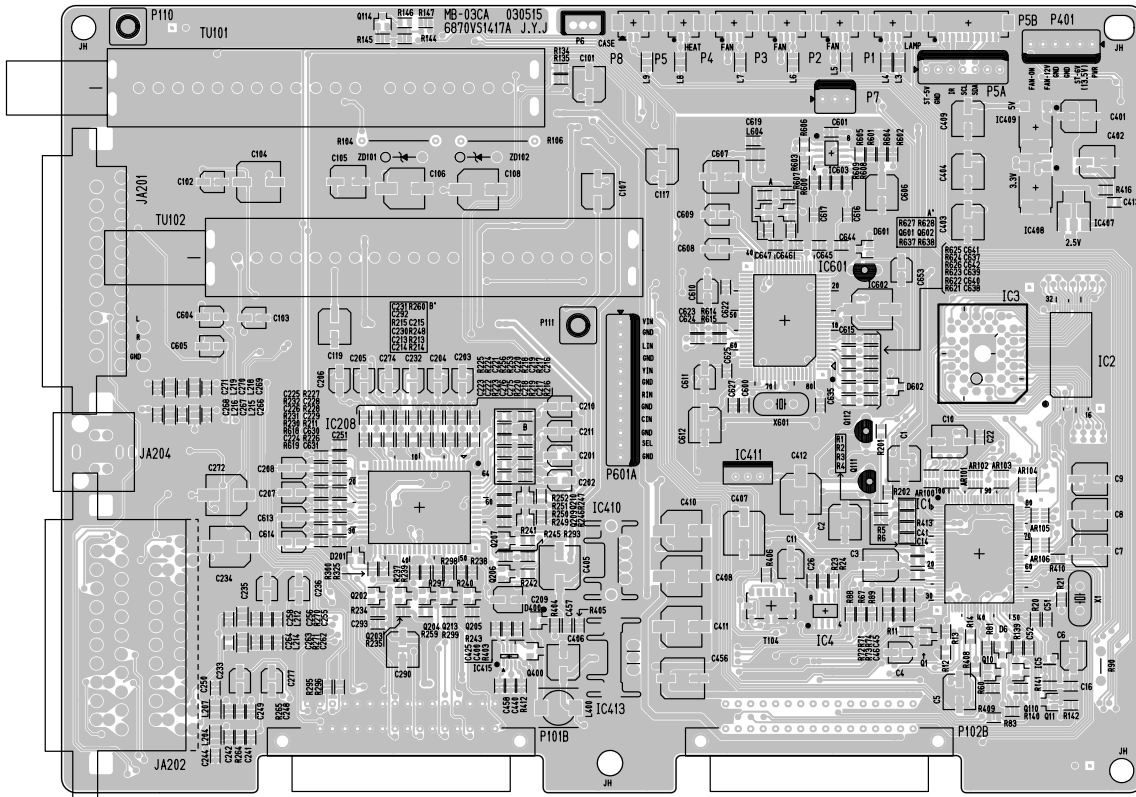
DIGITAL (TOP)



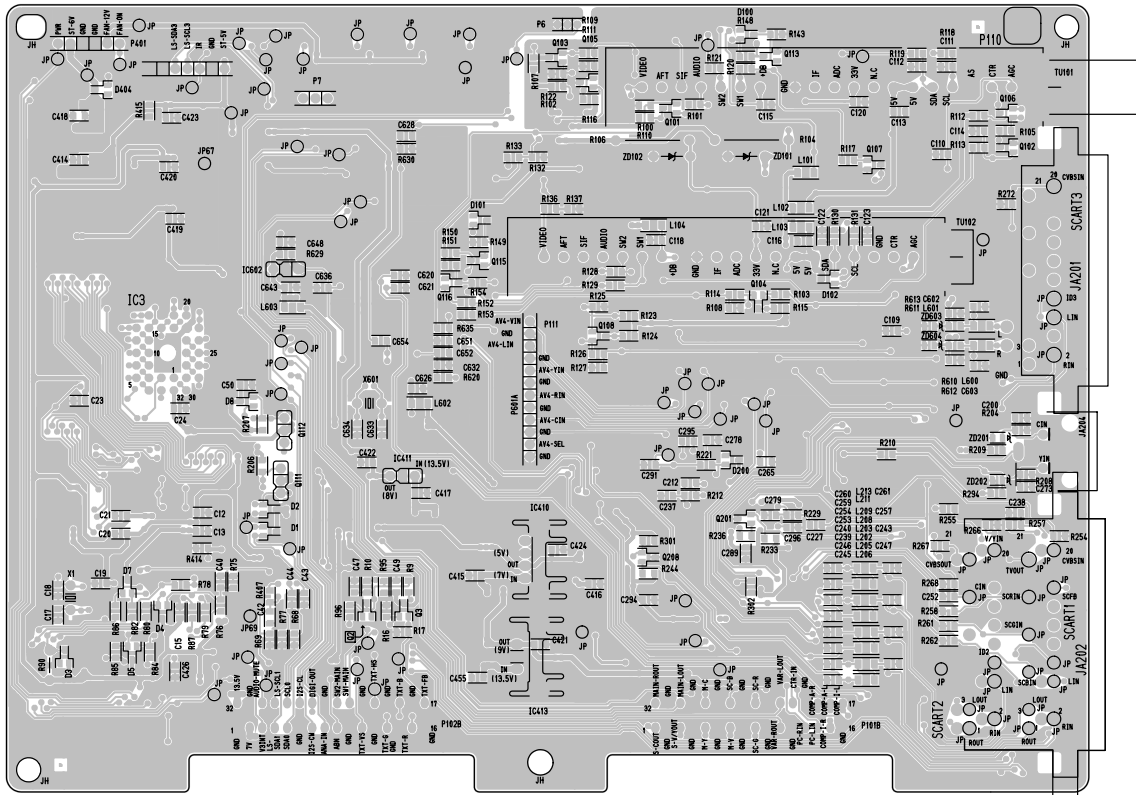
DIGITAL (BOTTOM)



TUNER (TOP)

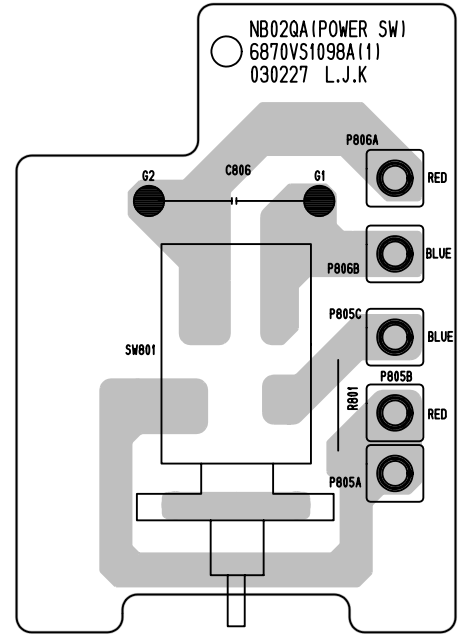
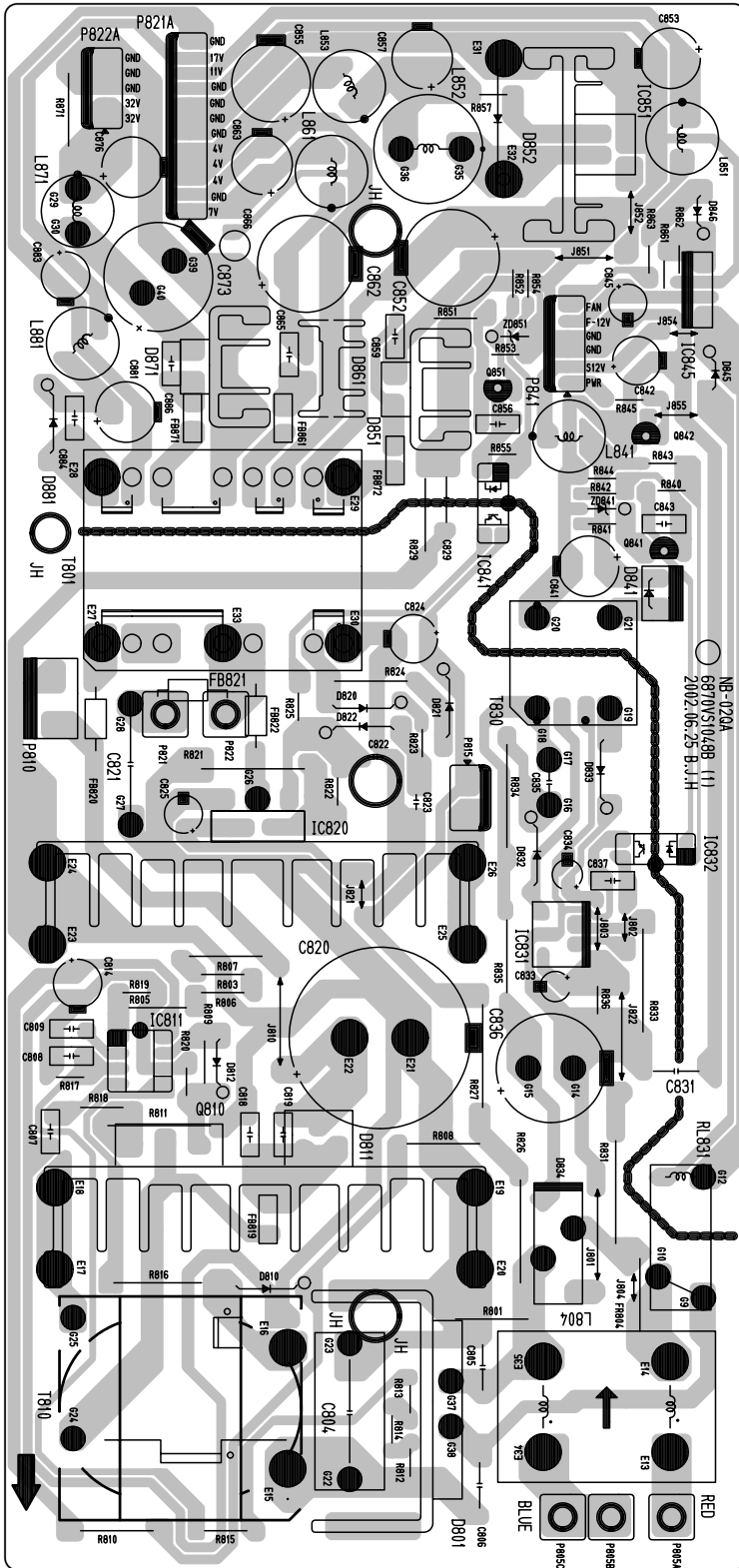


TUNER (BOTTOM)

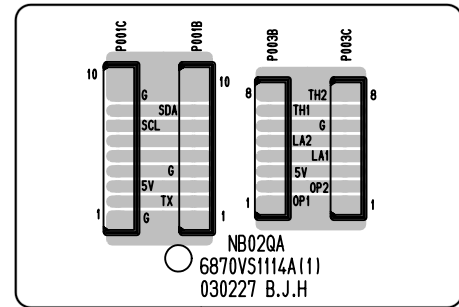


SMPS

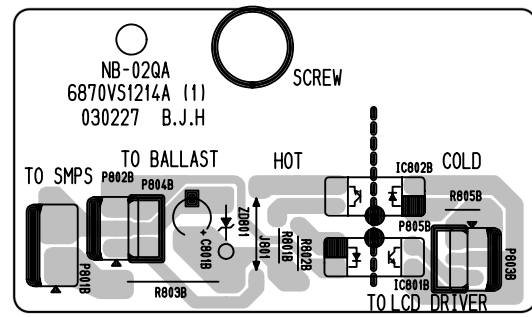
POWER S/W



INTERFACE

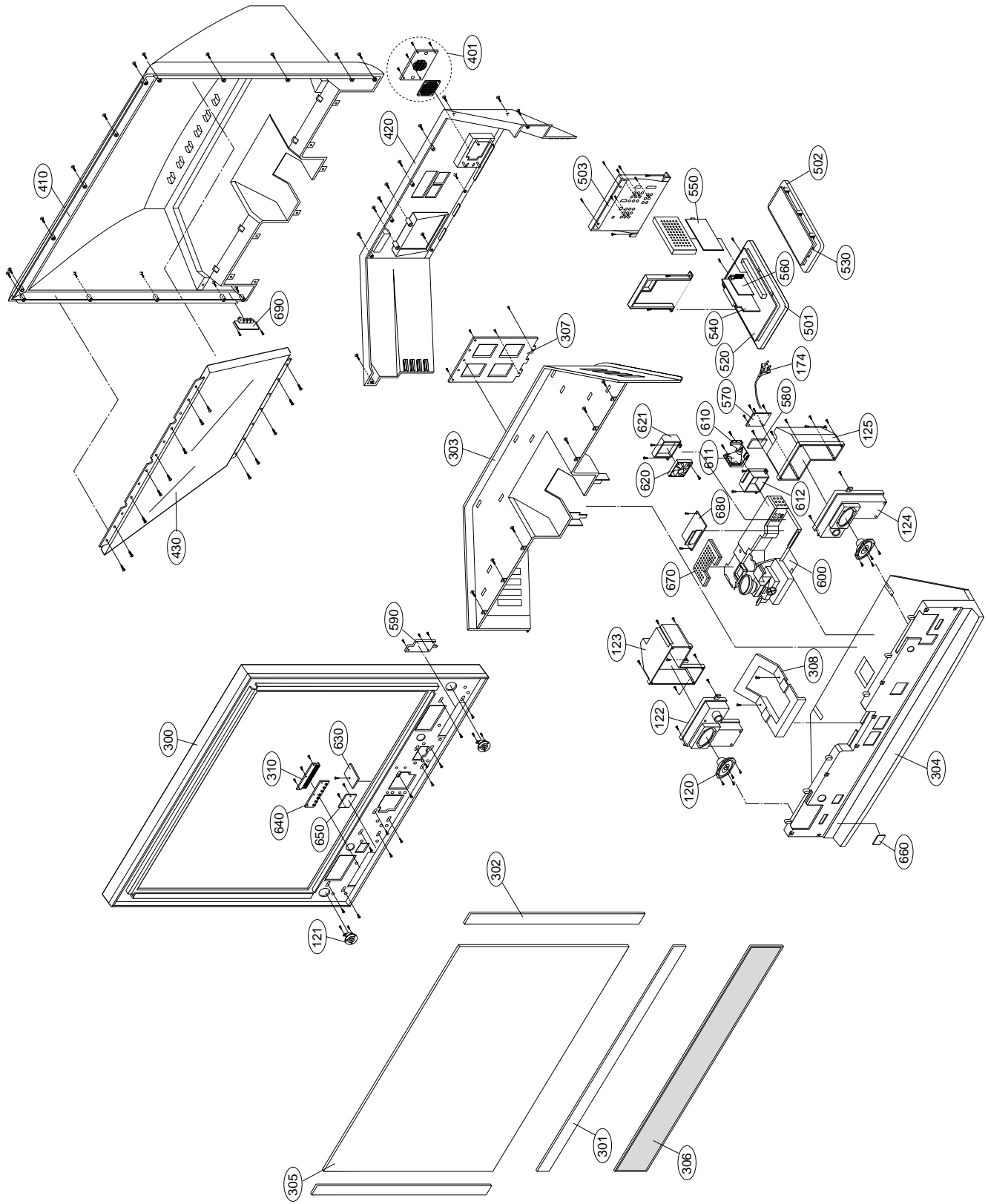


BALLAST



MEMO

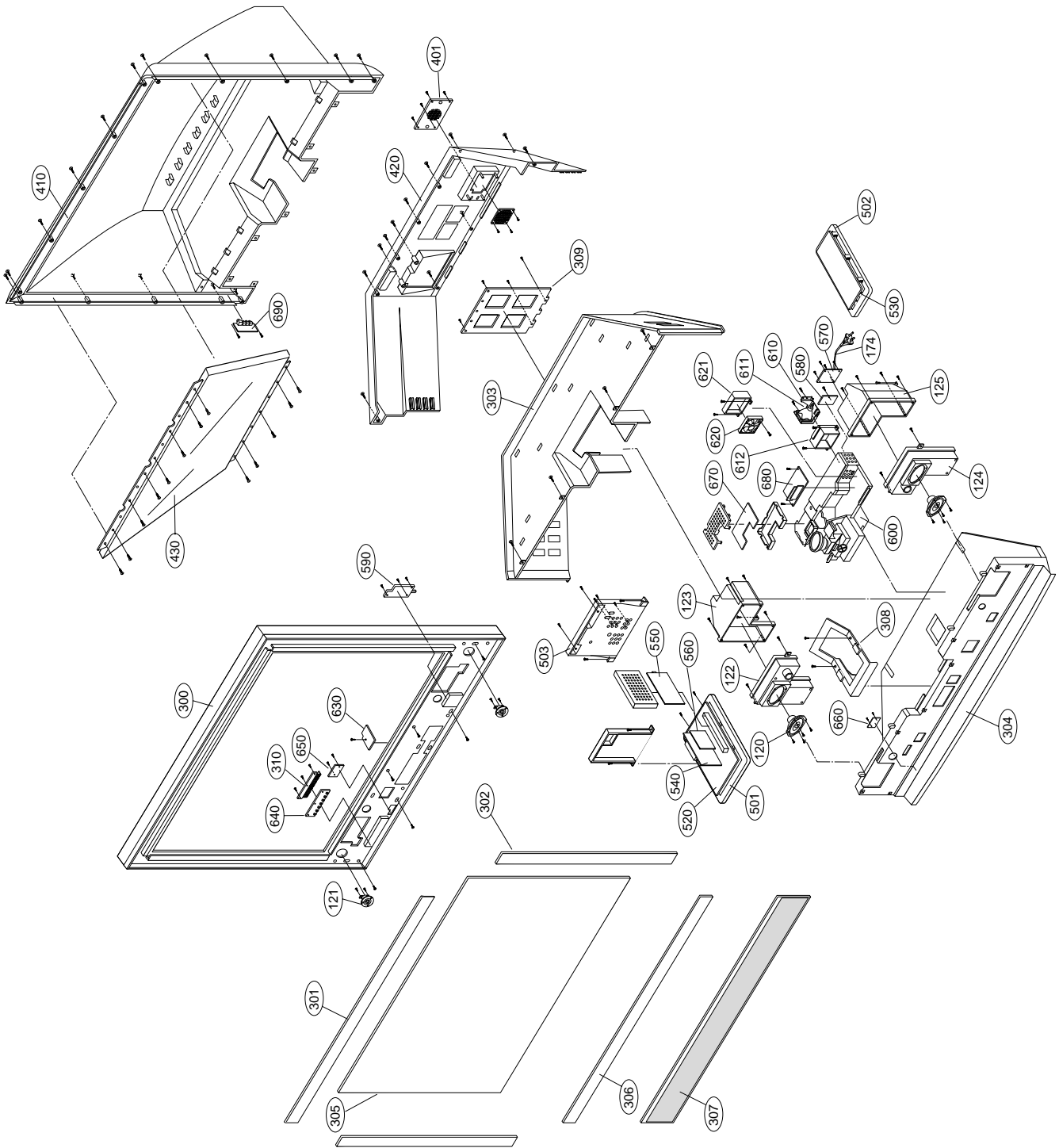
EXPLODED VIEW(52")



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	120-D38E	SPEAKER,MID-RANGE LG FOSTER 8 OHM 15/25W 87DB 128X77MM
121	6400VG0001B	SPEAKER,TWEETER NO FOSTER 8 OHM 20W/30W XX D77
122	3110V00123A	CASE, SPEAKER BOX LEFT
123	3550V00159A	COVER, SPEAKER BOX LEFT
124	3110V00124A	CASE, SPEAKER BOX RIGHT
125	3550V00160A	COVER, SPEAKER BOX RIGHT
174	174-322E	POWER CORD, POWER W/FILTER L=400(179B)
300	3091V00B46B	CABINET ASSEMBLY, RT-52SZ30RP STEREO MB03CA .
301	4980V00591A	SUPPORTER, SCREEN SBHG ,BOTTOM
302	4980V00592B	SUPPORTER, SCREEN SECC RN-52SZ30H
303	3211V00080A	FRAME ASSEMBLY, FRONT RN-52SZ10H 3210V00104
304	3211V00081N	FRAME ASSEMBLY, ASSY RL-52SZ30RB BASE LOWER
305	3350V00019B	SCREEN, TOPPAN NON RN-52SZ30H 1178*670 SAME 19A PITCH
306	4811V00035A	BRACKET ASSEMBLY, GRILLE . NB02QA .
307	4980V00439B	SUPPORTER, FRAME ET CENTER FIX RN-52SZ10H
308	3550V00225A	COVER, LENS PC+ABS RN-52SZ10H
310	5020V00654C	BUTTON, CONTROL RN-52SZ30H ABS, HF-380 7KEY BUTTON
401	3550V00232B	COVER, LAMP RN-52SZ30H PC-ABS
410	3809V00A39E	BACK COVER ASSEMBLY, RT-52SZ30RP NON UPPER
420	3809V00A41E	BACK COVER ASSEMBLY, RU-52SZ30 NON LOWER
430	5018V00025B	MIRROR, ASSY NONE NONE NONE RN-52SZ10H
501	3210V00127A	FRAME, RN-52SZ10H CHASSIS DIGITAL
502	3210V00073B	FRAME, RU-60SZ10 CHASSIS(SMPS) AB-00EA
503	4811V00021E	BRACKET ASSEMBLY, REAR AV RT-52SZ30RP NB03JA
520	6871VMMP50D	PWB(PCB) ASSEMBLY,MAIN MB-03CB RT-52SZ31RB
530	6871VPMA14C	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CB M/I
540	6871VSMU54E	PWB(PCB) ASSEMBLY,SUB TUNER MB03CB M/I
550	6871VSMU56D	PWB(PCB) ASSEMBLY,SUB DIGITAL MB03CB M/I FOR NON-EU
560	6871VSMU55C	PWB(PCB) ASSEMBLY,SUB MB03CB M/I COMPO
570	6871VPMA15D	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CB M/I AC INPUT
580	6871VSMB13F	PWB(PCB) ASSEMBLY,SUB INTER MB03CA BALLAST
590	6871VSN154E	PWB(PCB) ASSEMBLY,MAIN SUB NB-03JA MAIN POWER SWITCH
600	3141VSNA61B	CHASSIS ASSEMBLY SUB NB02QA BRACK OPTICAL
610	3110V00140A	CASE, ASSY,LAMP RN-60SZ10
611	6912V00006A	LAMP,HIGH PRESSURE MECURY UHP100W 1.3 PHILIPS 100V 1A RN60SZ10
612	4930V00230A	HOLDER, DUCT BACK FAN PC+ABS RN-52SZ10H
620	5900V09002C	FAN,DC G9225L12B2-FL DONGYANG 92MM 12V140MA 2000RPM 99GM MOTOR
621	3300V00156A	PLATE, DUCT,FAN SECC
630	6871VSN156D	PWB(PCB) ASSEMBLY,MAIN SUB NB03JA PRE-AMP RU-52SZ30
640	6871VSMD03E	PWB(PCB) ASSEMBLY,SUB CONT NB03JA RN-52SZ30H
650	6871VSN194A	PWB(PCB) ASSEMBLY,SUB INTER NB02QA 52 LCD PJTV
660	6871VSN187B	PWB(PCB) ASSEMBLY,SUB LED NB-02QA RN-52SZ10H M/I
670	6871VSMV06A	PWB(PCB) ASSEMBLY,SUB SUB MB03CA RT-52SZ30RP DRIVER M/I
680	6913V00002A	BALLAST, EUC-100L/100V PHILIPS FOR LAMP(UHP100W)
690	6871VSN155B	PWB(PCB) ASSEMBLY,MAIN SUB NB-02QA SIDE A/V

EXPLODED VIEW(60")



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	120-D38E	SPEAKER,MID-RANGE LG FOSTER 8 OHM 15/25W 87DB 128X77MM
121	6400VG0001B	SPEAKER,TWEETER NO FOSTER 8 OHM 20W/30W XX D77
122	3110V00123A	CASE, SPEAKER BOX LEFT
123	3550V00159A	COVER, SPEAKER BOX LEFT
124	3110V00124A	CASE, SPEAKER BOX RIGHT
125	3550V00160A	COVER, SPEAKER BOX RIGHT
174	174-322E	POWER CORD, POWER W/FILTER L=400(179B)
300	3091V00468G	CABINET ASSEMBLY, RT-60SZ31RB NON MB03CB (NON EU)
301	3210V00150A	FRAME, FRONT UPPER AL ,RN-60SZ30H .
302	3210V00152A	FRAME, FRONT SIDE AL ,RN-60SZ30H .
303	3211V00047B	FRAME ASSEMBLY, FRONT RU-60SZ10 3210V00074B
304	3211V00048J	FRAME ASSEMBLY, FRONT LOWER ,RN-60SZ30H .
305	3351V00001A	SCREEN ASSEMBLY, TOPPAN NON RN-60SZ10H 1358*776*4.1 GAIN 4.7
306	3210V00186C	FRAME, FRONT LOWER AL ,RU-60SZ30 ,LG
307	4811V00032F	BRACKET ASSEMBLY, SPEAKER RT-60SZ31RB MB03CB
308	3550V00155B	COVER, LENS RN-60SZ10H
309	4980V00257B	SUPPORTER, FRAME SECC BASE CENTER RN-60SZ10H
310	5020V00654C	BUTTON, CONTROL RN-52SZ30H ABS, HF-380 7KEY BUTTON
401	3550V00188C	COVER, ASSY RN-60SZ30H PC-ABS ,7227V000056
410	3809V00246K	BACK COVER ASSEMBLY, RT-60SZ31RB NON (NON EU)
420	3809V00247E	BACK COVER ASSEMBLY, WLP-60M10DW NON .
430	5018V00025C	MIRROR, ASSY NONE NONE NONE RT-60SZ10
501	3210V00127A	FRAME, RN-52SZ10H CHASSIS DIGITAL . .
502	3210V00073B	FRAME, RU-60SZ10 CHASSIS(SMPS) AB-00EA .
503	4811V00080A	BRACKET ASSEMBLY, BOARD RT-60SZ30RP MB03CA REAL AV
520	6871VMMP50F	PWB(PCB) ASSEMBLY,MAIN MB-03CB BOTTOM M/I
530	6871VPMA14D	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CB M/I RT-60SZ31RB
540	6871VSMU54G	PWB(PCB) ASSEMBLY,SUB TUNER MB03CB M/I
550	6871VSMU56F	PWB(PCB) ASSEMBLY,SUB DIGITAL MB03CB DIGITAL M/I
560	6871VSMU55D	PWB(PCB) ASSEMBLY,SUB MB03CB COMPO M/I
570	6871VPMA15E	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CB AC INPUT
580	6871VSMB13F	PWB(PCB) ASSEMBLY,SUB INTER MB03CA BALLAST
590	6871VSN154E	PWB(PCB) ASSEMBLY,MAIN SUB NB-03JA MAIN POWER SWITCH
600	3141VSN180E	CHASSIS ASSEMBLY SUB NB02QA BRACK OPTIC ENGINE RN-60SZ30H
610	3110V00140A	CASE ASSY,LAMP RN-60SZ10 . .
611	6912V00006A	LAMP,HIGH PRESSURE MEURCY UHP100W 1.3 PHILIPS 100V 1A RN60SZ10
612	3110V00125A	CASE, LAMP HEAT FLOW
620	5900V09002C	FAN,DC G9225L12B2-FL DONGYANG 92MM 12V140MA 2000RPM 99GM MOTOR
621	3300V00156A	PLATE, DUCT,FAN SECC
630	6871VSN156C	PWB(PCB) ASSEMBLY,MAIN SUB NB-02QA PRE-AMP MD 60
640	6871VSMD03D	PWB(PCB) ASSEMBLY,SUB CONT NB03JA RN-60SZ30H
650	6871VSN194A	PWB(PCB) ASSEMBLY,SUB INTER NB02QA 52 LCD PJTV
660	6871VSN187C	PWB(PCB) ASSEMBLY,SUB LED NB03JA RN-52SZ30H
670	6871VSMV06B	PWB(PCB) ASSEMBLY,SUB MB03CB DRIVER M/I
680	6913V00002A	BALLAST, EUC-100L/100V PHILIPS FOR LAMP(UHP100W)
690	6871VSN155B	PWB(PCB) ASSEMBLY,MAIN SUB NB-02QA SIDE A/V

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC01	0IMI623200B	IC, M62320FP,I/O EXPANDER 16P
IC02	0IMI623200B	IC, M62320FP,I/O EXPANDER 16P
IC1	0ISM555000A	IC, SDA5550 MQFP100 BK MICOM TXT MC006A
IC101	0IMCRAD002A	IC, AD9883A ANALOG DEVICE 80P
IC102	0IIT323000E	IC, VPC3230D C5 80P QFP
IC103	0IMCRXL003A	IC, XC95144XL-10TQ100C 3.3V XILINX TQFP 100P
IC104	0IIT323000E	IC, VPC3230D C5 80P QFP
IC105	0IFA741230A	IC, DM74LS123MX 16SOP TP
IC1100	0IZZVA0072M	IC, M37272E8A(OTP) DIP 42P
IC1100	0IMI372728A	IC, M37272E8A(OTP) 42SD BK M-COM -
IC1101	0IMI623520B	IC, M62352GP 20P
IC1102	0IAL242561B	IC, AT24C256W-10SI-2.7V 8P
IC1103	0IPRPTI001A	IC, TFP401PZP TEXAS INSTRUMENT 100,TQFP
IC1104	0IKE704200J	IC, KIA7042AF SOT-89 TP
IC1105	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1106	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1107	0IPRPM001B	IC, MIC29152 MICREL 5P TO-263
IC120	0ISJ111733A	IC, EZ1117CST-3.3 3P,SOT-223 TP 3.3V
IC1200	0IMCRSO008A	IC, CXA2151Q SONY 48P QFP
IC1200	0IPRPM001A	IC, MIC39100 MICREL 3P SOT223
IC1202	0IMCRSB010A	IC, L3E07050K0A SEIKO EPSON 176QFP
IC1202	0IMO744053B	IC, MC74HC4053DW 16SOP 3*2CH.MUX
IC1203	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1300	0IMO324000C	IC, LM324D SO-14 TP OP AMP
IC1301	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO
IC1302	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1303	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1304	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP
IC1305	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1400	0IMO324000C	IC, LM324D SO-14 TP OP AMP
IC1401	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO
IC1402	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1403	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1404	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP
IC1405	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1500	0IMO324000C	IC, LM324D SO-14 TP OP AMP
IC1501	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO
IC1502	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1503	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP
IC1504	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP
IC1505	0IPRPFA006A	IC, RC1117S33T FAIRCHILD SOT-223
IC1601	0ISA428200A	IC, LA4282 12S 2CHX10W AUDIO AMP
IC1602	0IKE780500Q	IC, KIA7805API 3P TO-220 ST
IC2	0ISS610082A	IC, K6T1008V2E-TB(F)70 [K6T1008BLT-7L]
IC208	0ISO206900A	IC, CXA2069Q QFP64 BK I2C BUS AV S/W
IC301	0ICTMLG003C	IC, LGDT1502M LG IC 304P QFP
IC302	0ITI740000Q	IC, SN74LVC00AD 14SOP

LOCA. NO	PART NO	DESCRIPTION
IC303	0ITI740000Q	IC, SN74LVC00AD 14SOP R/TP LOGIC D-TV
IC304	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P
IC305	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P
IC306	0IIC271600A	IC, MK2716STR 8P,SOP
IC320	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC4	0IMCRAL006A	IC, AT24C16AN-10SI-2.7 ATMEL 8P
IC401	0ICTMMI038B	IC, COPY M306V3FGFP MITSUBISHI 100P
IC401	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR -
IC402	0IFA752700A	IC, KA75270Z 3 TP RE-SET IC MC-007
IC403	0IMCRSG010A	IC, ST3232CDR SGS-THOMSON SOP16
IC403	0ISH302122A	IC, PQ30RV21 TO-220
IC404	0IMCRTI019A	IC, TFP410 TEXAS INSTRUMENT 64P TQFP
IC404	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR
IC405	0IMP242560A	IC, 24LC256-I/SM 8P,SOP
IC406	0IKE780500Q	IC, KIA7805API 3P TO-220 ST
IC407	0IPRPFA007A	IC, RC1117S25T FAIRCHILD SOT-223
IC407	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC408	0IMCRKE008A	IC, KIA78D33F KEC 3P DPAK
IC409	0IMCRFA015A	IC, KA7805R FAIRCHILD 2P D-PAK
IC410	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR
IC411	0IKE780800J	IC, KIA7808API 3 ST REGULATOR
IC412	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC413	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC414	0ISH302122A	IC, PQ30RV21 TO-220
IC415	0ITK118100B	IC, TK11840L 8P SOT23L
IC5	0IMX811000A	IC, MAX811REUT-T 128QFP BK RESET DI-32Q82
IC601	0IMCRMN001C	IC, MSP3411G QA B8 V3 MICRONAS 80P
IC602	0IFA753307A	IC, KA75330ZTA(KA7533ZTA) 3P,TO-92
IC603	0ISS455880A	IC, KA4558D 8SOP OP AMP
IC801B	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC802B	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC811	0IMCRON002A	IC, MC33262P ON SEMI 8P
IC820	0ISK666813A	IC, STR-F6668B(LF1352) 5PIN BK STR FD-60X3R
IC831	0ISK615311B	IC, STR-G6153T(LF1101) 5PIN BK STR HN-61A40R
IC832	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC841	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC845	0ISS781200H	IC, KA78R12 4P,TO-220F BK LOW DROP 12V
IC851	0IMO257633A	IC, LM2576TV-3.3 5PIN ST
Q111	0IFA270000A	IC, 2N7000TA TO-92, 3P
Q112	0IFA270000A	IC, 2N7000TA TO-92, 3P
TRANSISTOR		
IC202	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC203	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q01	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q02	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q03	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q04	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q05	0TR387500AA	CHIP 2SC3875S(ALY) KEC

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
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LOCA. NO	PART NO	DESCRIPTION
Q06	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q10	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q109	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q116	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q116	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1203	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1204	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1205	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1206	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1210	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q1211	0TR127009AA	KTA1270-Y(KTA562TM) TP TO92 50V 100MA
Q1212	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1213	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1214	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1215	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1216	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1217	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1218	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1219	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1221	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q1222	0TR127009AA	KTA1270-Y(KTA562TM) TP TO92 50V 100MA
Q1223	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1230	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1232	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q1235	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1236	0TR150400BA	CHIP 2SA1504S(ASY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q1601	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q201	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q202	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q203	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q204	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q205	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q206	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q207	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q208	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q210	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q213	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q3	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q301	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q302	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q304	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q400	0TRKE80038A	KTC3552T-RTK KEC R/TP SOT-23F 50V 3A
Q501	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q510	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q511	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q601	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q602	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q810	0TF283700AA	2SK2837 BK TOSHIBA 500V 20A TO3P
Q841	0TR945009AA	KSC945C-Y TP TO92 50V 150MA
Q842	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
Q851	0TR945009AA	KSC945C-Y TP TO92 50V 150MA
DIODE		
D01	0DL200000CA	LED, SAM5670(DL-2LRG) BK Y-GREEN
D02	0DL200000CA	LED, SAM5670(DL-2LRG) BK Y-GREEN
D03	0DL200000CA	LED, SAM5670(DL-2LRG) BK Y-GREEN
D1	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D100	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D101	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D102	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1200	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1602	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1603	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1605	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D2	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D200	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D201	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D3	0DD226239AA	CHIP KDS226 SOT-23
D300	0DL112100AA	LED, SR3411(DL-11S2RN1) BK RED
D4	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D400	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D402	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D402	0DD414809ED	1N4148 TP GRANDE
D403	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D403	0DD414809ED	1N4148 TP GRANDE
D404	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A

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

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

LOCA. NO	PART NO	DESCRIPTION
D404	0DD414809ED	1N4148 TP GRANDE
D404	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D405	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D406	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D410	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTECH
D411	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTECH
D431	0DD414809ED	1N4148 TP GRANDE
D432	0DD414809ED	1N4148 TP GRANDE
D433	0DD414809ED	1N4148 TP GRANDE
D434	0DD414809ED	1N4148 TP GRANDE
D435	0DD414809ED	1N4148 TP GRANDE
D437	0DD414809ED	1N4148 TP GRANDE
D5	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D6	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D601	0DD226239AA	CHIP KDS226 SOT-23
D602	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D7	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D8	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D801	0DD606000AA	RBV606 SANKEN BK NA 600V 6A 150A NA 10UA
D810	0DD100009AM	EU1ZV(1) TP SANKEN
D820	0DD100009AM	EU1ZV(1) TP SANKEN
D821	0DD100009AM	EU1ZV(1) TP SANKEN
D822	0DD100009AM	EU1ZV(1) TP SANKEN
D832	0DR010009AA	EG01C TP 1000V 0.5A 10A 100NSEC 50UA
D833	0DD100009AM	EU1ZV(1) TP SANKEN
D834	0DD260000BB	BRIDGE D2SBA60(STK) SHINDENKEN
D841	0DD120000BB	FML-G12S
D845	0DD414809ED	1N4148 TP GRANDE
D851	0DD120000BB	FML-G12S
D852	0DR460009AA	RK46 TP DO-214AC 60V 3.5A 70A 100SEC 3MA
D861	0DD120000BB	FML-G12S
D871	0DD120000BB	FML-G12S
D881	0DD100009AP	EG1ZV(1) TP SANKEN TP SANKEN
Q810	0DR260001AA	FMG-26S ST SANKEN TO220 600V 6A 50A
ZD01	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD1	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD10	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD11	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD12	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD2	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD3	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD4	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD5	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD6	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD841	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD851	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD9	0DZ620009BB	MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
CAPACITOR		
C01	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C07	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1	0CE476DF618	47UF STD 16V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C1	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C10	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C101	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C104	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C105	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C106	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C107	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C108	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C11	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C1100	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1101	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1102	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1103	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1104	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C1105	0CC180CKH1A	18PF 1608 50V 2% R/TP NP0
C1106	0CC180CKH1A	18PF 1608 50V 2% R/TP NP0
C1107	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1108	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1110	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1111	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1112	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1114	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) SMD
C1116	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1118	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1122	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1125	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1133	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1134	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1138	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1139	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C114	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1143	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C119	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C120	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1200	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1201	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C1202	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1204	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1205	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1206	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1207	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1208	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1209	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1210	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1217	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1218	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1219	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C1226	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1234	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1237	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C124	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R

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LOCA. NO	PART NO	DESCRIPTION
C1246	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C125	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1250	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C1251	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C1252	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C126	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1260	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C127	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1301	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1305	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1308	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1309	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1310	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1311	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1313	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1319	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1320	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1321	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1322	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1324	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1325	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1330	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1335	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1336	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1340	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1341	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C136	0CK823DK56A	82000PF 2012 50V 10% R/TP X7R
C139	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1401	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1405	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1408	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1409	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1410	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1411	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1413	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1419	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1420	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1421	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1422	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1424	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1425	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1429	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1435	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1436	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1441	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C147	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C148	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1501	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1505	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1508	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1509	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1510	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C1511	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1513	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1519	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1520	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1521	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1522	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1524	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1525	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1529	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1535	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1536	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1541	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C158	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C159	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1601	0CE107DH618	100UF STD 25V M FL TP5
C1602	0CE106DK618	10UF STD 50V M FL TP5
C1603	0CE107DH618	100UF STD 25V M FL TP5
C1604	0CE106DK618	10UF STD 50V M FL TP5
C1605	0CE107DH618	100UF STD 25V M FL TP5
C1606	0CE106DF618	10UF STD 16V M FL TP5
C1607	0CE108DK61A	1000UF STD 50V M FL TP7.5
C1608	0CE106DF618	10UF STD 16V M FL TP5
C1609	0CE106DF618	10UF STD 16V M FL TP5
C1610	0CE108DJ618	1000UF STD 35V M FL TP5
C1611	0CE108DJ618	1000UF STD 35V M FL TP5
C1612	0CQ6821N509	0.0068U 100V K POLY TP
C1613	0CQ6821N509	0.0068U 100V K POLY TP
C1614	0CE226DF618	22UF STD 16V M FL TP5
C1615	0CE108DF618	1000UF STD 16V M FL TP5
C1616	0CQ1041N509	0.1U 100V K POLY TP
C1618	0CQ1041N509	0.1U 100V K POLY TP
C1620	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C1621	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C1630	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1631	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C168	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C172	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C173	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C175	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C183	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C185	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C186	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C187	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C188	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C190	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C191	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C192	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C193	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C194	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C195	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C198	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C2	0CN1030F679	10000P 16V M Y TA52

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CQ : Polyester	RS : Metal Oxide Film
CE : Electrolytic	RN : Metal Film
	RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C2	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C200	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C201	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C202	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C203	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C204	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C205	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C206	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C207	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C207	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C208	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C209	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C210	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C211	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C211	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C212	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C212	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C213	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C214	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C215	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C215	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C216	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C216	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C217	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C219	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C220	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C224	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C224	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C225	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C226	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C227	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C232	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C232	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C234	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C235	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C236	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C237	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C238	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C240	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C249	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C260	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C261	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C262	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C274	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C290	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C3	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C31	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C312	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C314	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C359	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C362	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C371	0CE336SC6DC	33UF MVG 6.3V M SMD R/TP

LOCA. NO	PART NO	DESCRIPTION
C372	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C401	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C402	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C403	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C403	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C404	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C405	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C406	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C406	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C407	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C408	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C409	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C410	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C411	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C411	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C412	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C412	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C417	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C426	0CE477DD618	470UF STD 10V M FL TP5
C427	0CE227BF618	220UF KME 16V M FL TP5
C428	0CE227DD618	220UF STD 10V M FL TP5
C429	0CE227BH618	220UF KME 25V M FL TP5
C430	0CE477DF618	470UF STD 16V 20% FL TP 5
C433	0CE107DD618	100UF STD 10V M FL TP5
C434	0CE107BF618	100UF KME 16V M FL TP5
C435	0CE107DD618	100UF STD 10V M FL TP5
C436	0CE107DF618	100UF STD 16V M FL TP5
C437	0CE107DD618	100UF STD 10V M FL TP5
C450	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C453	0CE107BF618	100UF KME 16V M FL TP5
C456	0CE477DH618	470UF STD 25V M FL TP5
C456	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C456	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C5	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C507	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C508	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C509	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C510	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C515	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C6	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C606	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C607	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C608	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C609	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C610	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C611	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C612	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C613	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C614	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C615	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C653	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C7	0CE476VF6DC	47UF MV 16V 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
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LOCA. NO	PART NO	DESCRIPTION
C8	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C801	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)
C801B	0CE106BK618	10UF KME 50V M FL TP5
C802	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C804	0CF1050W470	1UF 0 500V 5% BULK M/PP NI
C805	0CK10202510	1000P 2KV K B S
C806	0CK10202510	1000P 2KV K B S
C806	0CQZVBK002C	A.C 275V 0.22UF K (S=22.5)
C807	0CK1020K515	1000P 50V K B TS
C808	0CQ1021N519	0.001U 100V K POLY NI TP
C809	181-007J	MPE ECQ-V1H564JL3(TR), 50V 0.56UF
C814	0CE107BK618	100UF KME 50V M FL TP5
C818	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C820	181-001K	CE 450V 220UF M LUG(105)
C821	181-014Y	MPP 1.6KV 0.0015UF J
C822	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C823	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C825	0CE107BK618	100UF KME 50V M FL TP5
C829	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C831	181-035N	DE1010 B KD 471M
C833	0CE476BK618	47UF KME 50V M FL TP5
C834	0CE476BK618	47UF KME 50V M FL TP5
C835	181-010K	PP 0.01UF 630V 5% FM 7.5MM
C836	0CE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK
C837	0CK1030K945	0.01UF 50V Z F TR
C841	0CE108BF618	1000UF KME 16V M FL TP5
C842	0CE107BF618	100UF KME 16V M FL TP5
C843	0CK1040K945	0.1UF 50V Z F TR
C845	0CE476BK618	47UF KME 50V M FL TP5
C852	0CE228BH61A	2200UF KME 25V M FL TP7.5
C853	0CE108BF618	1000UF KME 16V M FL TP5
C855	0CE228BF618	2200UF KME 16V M FL TP5
C856	0CK1040K945	0.1UF 50V Z F TR
C857	0CE108BF618	1000UF KME 16V M FL TP5
C859	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C862	0CE228BH61A	2200UF KME 25V M FL TP7.5
C863	0CE108BF618	1000UF KME 16V M FL TP5
C865	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C866	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C873	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C876	0CE337DK618	330UF STD 50V M FL TP5
C881	0CE477BJ618	470UF KME TYPE 35V 20% FL TP 5
C883	0CE227BH618	220UF KME 25V M FL TP5
C884	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C886	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C9	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
JACK		
JA1201	6613V00013D	PMJ021D PARK ELEC A/V 9P
JA1202	6612VJH006B	PJ6061D PARK ELEC. HORIZONTAL 2*3 6P
JA201	6613V00010B	PMJ016B A/V 3P + S-VHS (RD WH YL)
JA202	6612JH003FA	PPJ136A RN-52SZ10H,RE-44SZ20

LOCA. NO	PART NO	DESCRIPTION
JA204	380-404A	PHSJ-9504 HOSIDEN .
P101B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P102B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P103B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P1100	6612BBBH6A	440062-1 AMP DVI INTERACED RIGHT ANGLE
P401B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P402B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P403	6612BBBH6A	440062-1 AMP DVI INTERACED RIGHT ANGLE
COIL & TRANSFORMER		
AT1301	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1302	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1303	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1304	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1305	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1306	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1307	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1401	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1402	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1403	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1404	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1405	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1406	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1407	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1501	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1502	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1503	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1504	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1505	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1506	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1507	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
L01	0LC3332101A	INDUCTOR, 33UH 10% 3216
L02	0LC3332101A	INDUCTOR, 33UH 10% 3216
L03	0LC3332101A	INDUCTOR, 33UH 10% 3216
L1	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L101	0LC0233002A	INDUCTOR, 3.3UH
L101	0LC1032101A	INDUCTOR, 10UH 10% 3216
L102	0LC1032101A	INDUCTOR, 10UH 10% 3216
L103	0LC0233002A	INDUCTOR, 3.3UH R/TP
L103	0LC1032101A	INDUCTOR, 10UH 10% 3216
L104	0LC1032101A	INDUCTOR, 10UH 10% 3216
L106	0LC0233002A	INDUCTOR, 3.3UH R/TP
L107	0LC2220101A	INDUCTOR, 2.2UH 10% 2012
L108	0LC2220101A	INDUCTOR, 2.2UH 10% 2012
L109	0LC2220101A	INDUCTOR, 2.2UH 10% 2012
L110	0LC6832101A	INDUCTOR, 6.8UH 10% 3216
L1100	6140VB0003A	LQH31CN4R7M01L 4.7UH
L1101	6140VB0003A	LQH31CN4R7M01L 4.7UH
L1102	6140VB0003A	LQH31CN4R7M01L 4.7UH
L1103	6140VB0003A	LQH31CN4R7M01L 4.7UH
L1104	6140VB0003A	LQH31CN4R7M01L 4.7UH
L1105	6140VB0003A	LQH31CN4R7M01L 4.7UH

LOCA. NO	PART NO	DESCRIPTION
L1107	6140VB0003A	LQH31CN4R7M01L 4.7UH
L111	0LC6832101A	INDUCTOR, 6.8UH 10% 3216
L112	0LC6832101A	INDUCTOR, 6.8UH 10% 3216
L113	0LC6832101A	INDUCTOR, 6.8UH 10% 3216
L114	0LC6832101A	INDUCTOR, 6.8UH 10% 3216
L117	0LC2220101A	INDUCTOR, 2.2UH 10% 2012
L120	0LC0233002A	INDUCTOR, 3.3UH R/TP
L1200	6140VB0003A	LQH31CN4R7M01L 4.7UH PHY TURN
L1200	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1201	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1203	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1204	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1206	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1207	0LC2232101A	INDUCTOR, 22UH 10% 3216
L1208	0LC3332101A	INDUCTOR, 33UH 10% 3216
L121	0LC0233002A	INDUCTOR, 3.3UH
L122	0LC0233002A	INDUCTOR, 3.3UH
L202	0LC1032101A	INDUCTOR, 10UH 10% 3216
L203	0LC1032101A	INDUCTOR, 10UH 10% 3216
L205	0LC1032101A	INDUCTOR, 10UH 10% 3216
L206	0LC1032101A	INDUCTOR, 10UH 10% 3216
L208	0LC1032101A	INDUCTOR, 10UH 10% 3216
L209	0LC1032101A	INDUCTOR, 10UH 10% 3216
L211	0LC1032101A	INDUCTOR, 10UH 10% 3216
L212	0LC1032101A	INDUCTOR, 10UH 10% 3216
L213	0LC1032101A	INDUCTOR, 10UH 10% 3216
L214	0LC1032101A	INDUCTOR, 10UH 10% 3216
L3	0LC1032101A	INDUCTOR, 10UH 10% 3216
L301	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L302	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L303	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L4	0LC1032101A	INDUCTOR, 10UH 10% 3216
L400	0LC6461201A	INDUCTOR, TOKO R/TP
L401	0LC2220101A	INDUCTOR, 2.2UH 10% 2012
L402	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L403	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L405	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A
L5	0LC1032101A	INDUCTOR, 10UH 10% 3216
L6	0LC1032101A	INDUCTOR, 10UH 10% 3216
L602	0LC1032101A	INDUCTOR, 10UH 10% 3216
L603	0LC1032101A	INDUCTOR, 10UH 10% 3216
L604	0LC1032101A	INDUCTOR, 10UH 10% 3216
L7	0LC1032101A	INDUCTOR, 10UH 10% 3216
L8	0LC1032101A	INDUCTOR, 10UH 10% 3216
L841	150-C02F	82UH PHY TURN
L851	150-C02F	82UH PHY TURN
L853	150-C02F	82UH PHY TURN
L861	150-C02F	82UH PHY TURN
L871	150-C02F	82UH PHY TURN
L881	150-C02F	82UH PHY TURN
L9	0LC1032101A	INDUCTOR, 10UH 10% 3216
T1301	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM

LOCA. NO	PART NO	DESCRIPTION
T1302	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1303	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1304	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1401	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1402	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1403	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1404	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1501	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1502	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1503	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1504	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T801	6170VMCA03D	TRANSFORMER,SMPS[COIL] EER4942 1200UH
T810	6170VMCA37B	TRANSFORMER,SMPS[COIL] PQ3535 310UH
T830	6170VS0001B	TRANSFORMER,STAND-BY EE1927 2200UH
CONNECTOR		
JA1200	6630VGA001B	68114-1522 MOLEX-KOR 15PIN 2.29MM
P001A	6602V12001D	1.25MM 10P 53261-1090 J-MOLEX SMD-TAPING
P001B	366-169J	WAFER 2MM,10PIN,GIL-S
P001C	366-169J	WAFER 2MM,10PIN,GIL-S
P002A	6602V12001B	1.25MM 3P 53261-0390 J-MOLEX SMD-TAPING
P003A	6602V12001G	1.25MM 8PINP 53261-0890 JPN-MOLEX LP-XG12
P003B	366-169G	2.0MM 8P GIL-S LG CABLE S
P003B	6602V12001G	1.25MM 8PINP 53261-0890 JPN-MOLEX LP-XG12
P003C	366-169G	2.0MM 8P GIL-S LG CABLE S
P1	6602V12001B	1.25MM 3P 53261-0390 J-MOLEX SMD-TAPING
P100	366-009D	2.36PAI 1P . K/M AUTO
P101A	6932V25004A	36512-0098 MALE MOLEX 48 2.54
P102A	6932V25004A	36512-0098 MALE MOLEX 48 2.54
P103A	6932V25004A	36512-0098 MALE MOLEX 48 2.54
P110	366-043A	ASSY,PLUG(1P)
P1101	6602V12001D	1.25MM 10P 53261-1090 J-MOLEX SMD-TAPING
P1102	6630V800208	794636-8 AMP 8P 3.0MM
P111	366-043A	ASSY,PLUG(1P)
P1300	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P1400	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P1500	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P1600	366-932C	2.5MM 4P GIL-G LG CABLE S (STICK)
P1601	366-932B	2.5MM 3P GIL-G LG CABLE S (STICK)
P2	6602V12001B	1.25MM 3P 53261-0390 J-MOLEX SMD-TAPING
P201A	6932V25004A	36512-0098 MALE MOLEX 48 2.54
P202A	6932V25004A	36512-0098 MALE MOLEX 48 2.54
P204B	366-922L	2.5MM 12P GIL-G LG CABLE R/A (B TO C)
P301	366-921F	2.5MM 7P GIL-G LG CABLE .
P4	6602V12001B	1.25MM 3P 53261-0390 J-MOLEX SMD-TAPING
P400	6630V800108	794680-8 AMP 8P 3.0MM
P401	366-922E	2.5MM 6P GIL-G LG CABLE R/A (B TO C)
P402	366-921L	2.5MM 12P GIL-G LG CABLE .
P403	366-932D	2.5MM 5P GIL-G LG CABLE S (STICK)
P404	6630VGA004A	68107-0922 MOLEX 9PIN 2.77MM ANGLE GOLD
P5	6602V12001A	1.25MM 2P 53261-0290 J-MOLEX SMD-TAPING
P500	366-043A	ASSY,PLUG(1P)

LOCA. NO	PART NO	DESCRIPTION
P5B	6602V12001D	1.25MM 10P 53261-1090 J-MOLEX SMD-TAPING
P601A	366-932L	2.5MM 12P GIL-G LG CABLE S (STICK)
P8	6602V12001A	1.25MM 2P 53261-0290 J-MOLEX SMD-TAPING
P801B	366-932C	2.5MM 4P GIL-G LG CABLE S (STICK)
P801B	366-009D	2.36PAI 1P . K/M AUTO
P801C	366-009D	2.36PAI 1P . K/M AUTO
P802A	366-009D	2.36PAI 1P . K/M AUTO
P802B	366-009D	2.36PAI 1P . K/M AUTO
P802C	366-009D	2.36PAI 1P . K/M AUTO
P803A	366-009D	2.36PAI 1P . K/M AUTO
P803B	366-009D	2.36PAI 1P . K/M AUTO
P804A	366-009D	2.36PAI 1P . K/M AUTO
P804B	366-169B	WAFER 2MM,3PIN,GIL-S
P804B	366-009D	2.36PAI 1P . K/M AUTO
P805	6631V23001J	2P 10.0MM 250MM H-H UL
P805A	366-009D	2.36PAI 1P . K/M AUTO
P805A	366-009D	2.36PAI 1P . K/M AUTO
P805B	366-169B	WAFER 2MM,3PIN,GIL-S
P805B	366-009D	2.36PAI 1P . K/M AUTO
P805B	366-009D	2.36PAI 1P . K/M AUTO
P805C	366-009D	2.36PAI 1P . K/M AUTO
P805C	366-009D	2.36PAI 1P . K/M AUTO
P806A	366-009D	2.36PAI 1P . K/M AUTO
P806A	366-009D	2.36PAI 1P . K/M AUTO
P806B	366-009D	2.36PAI 1P . K/M AUTO
P806B	366-009D	2.36PAI 1P . K/M AUTO
P810	6602V39002A	3.96MM 2P YW396-03AV YEONHO STRAIGHT
P815	366-932C	2.5MM 4P GIL-G LG CABLE S (STICK)
P821	366-009D	2.36PAI 1P . K/M AUTO
P821A	366-921L	2.5MM 12P GIL-G LG CABLE .
P822	366-009D	2.36PAI 1P . K/M AUTO
P822A	366-932D	2.5MM 5P GIL-G LG CABLE S (STICK)
P841	366-932E	2.5MM 6P GIL-G LG CABLE S (STICK)

RESISTOR

AR100	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR101	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR102	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR103	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR104	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR105	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR106	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5%
AR1100	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%

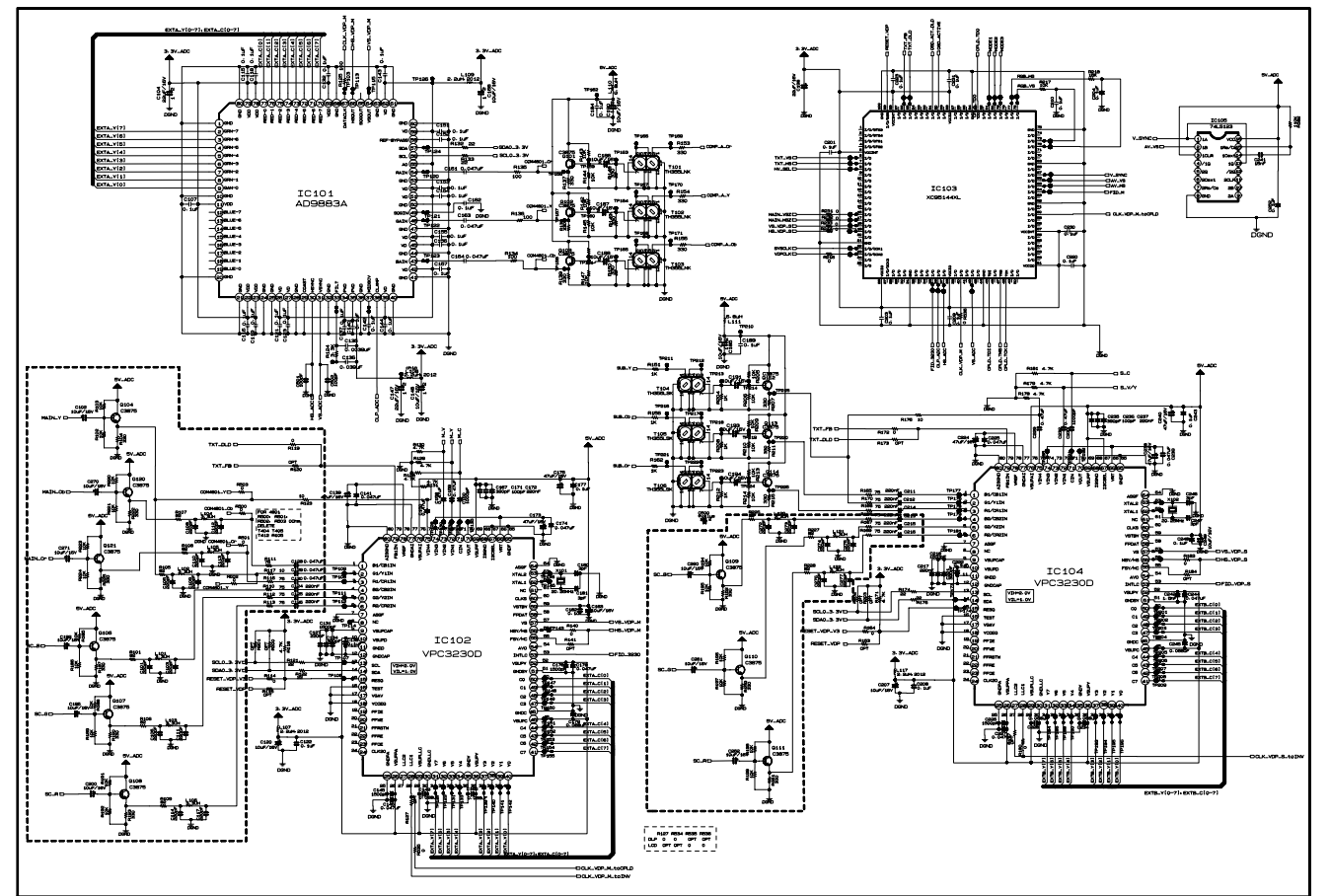
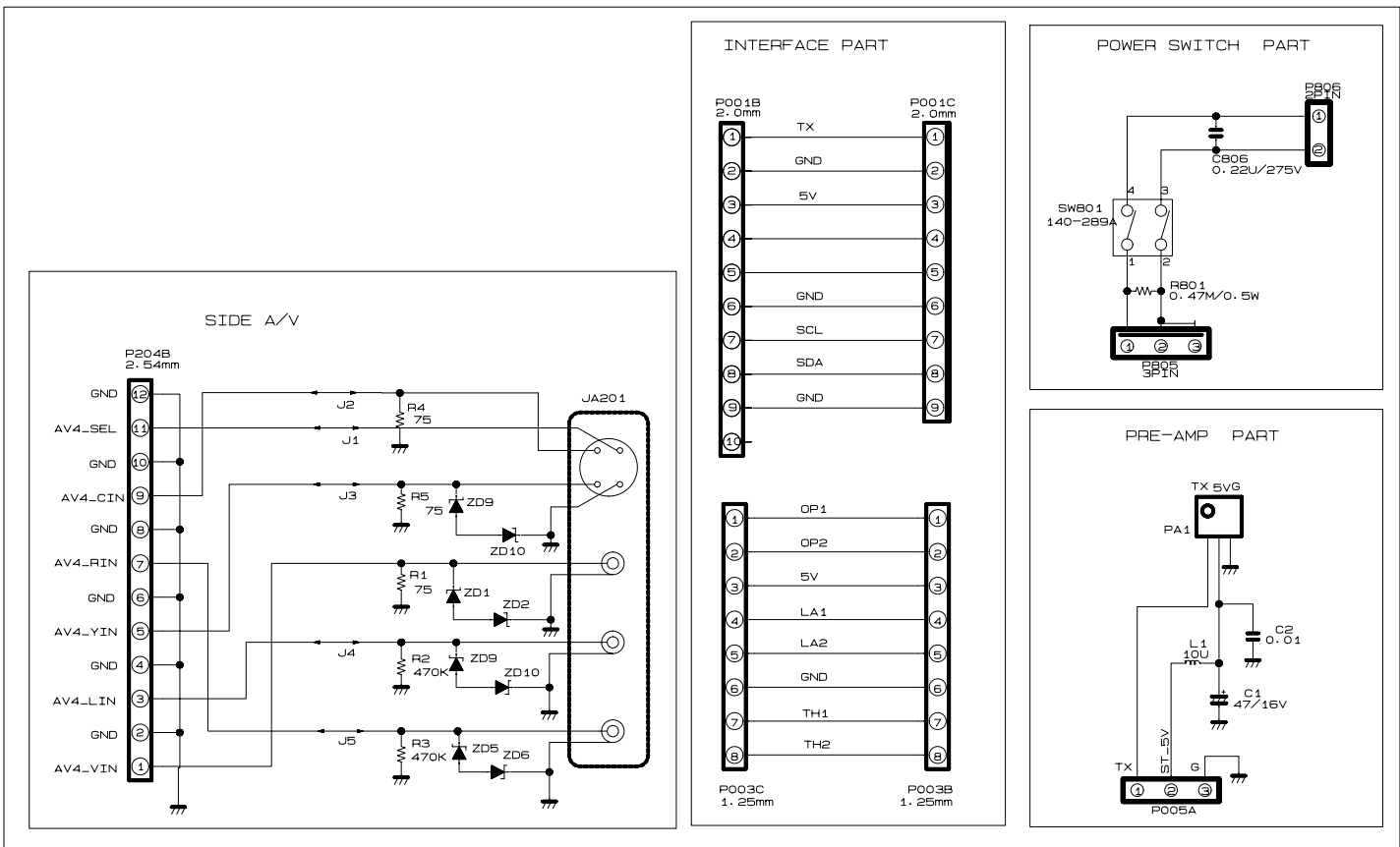
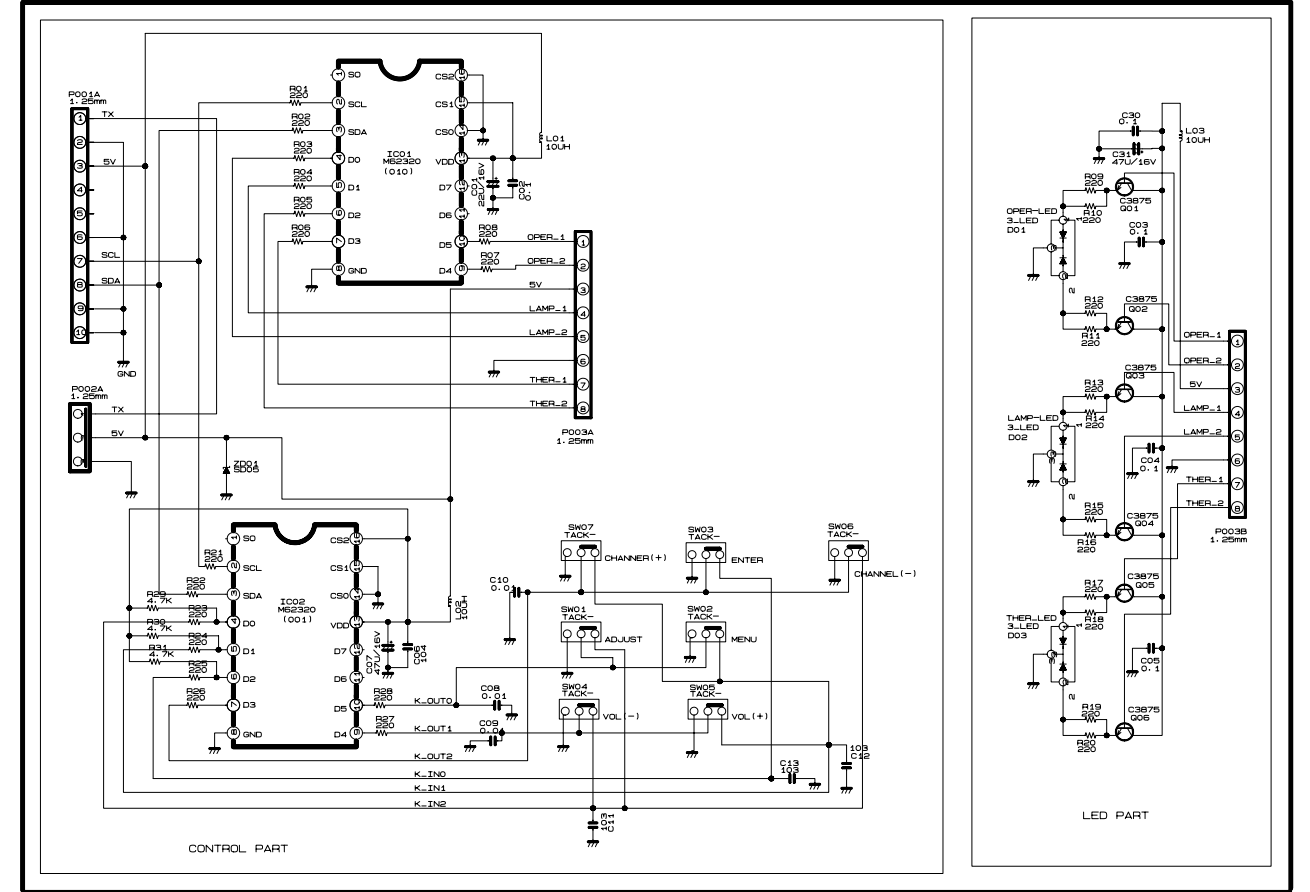
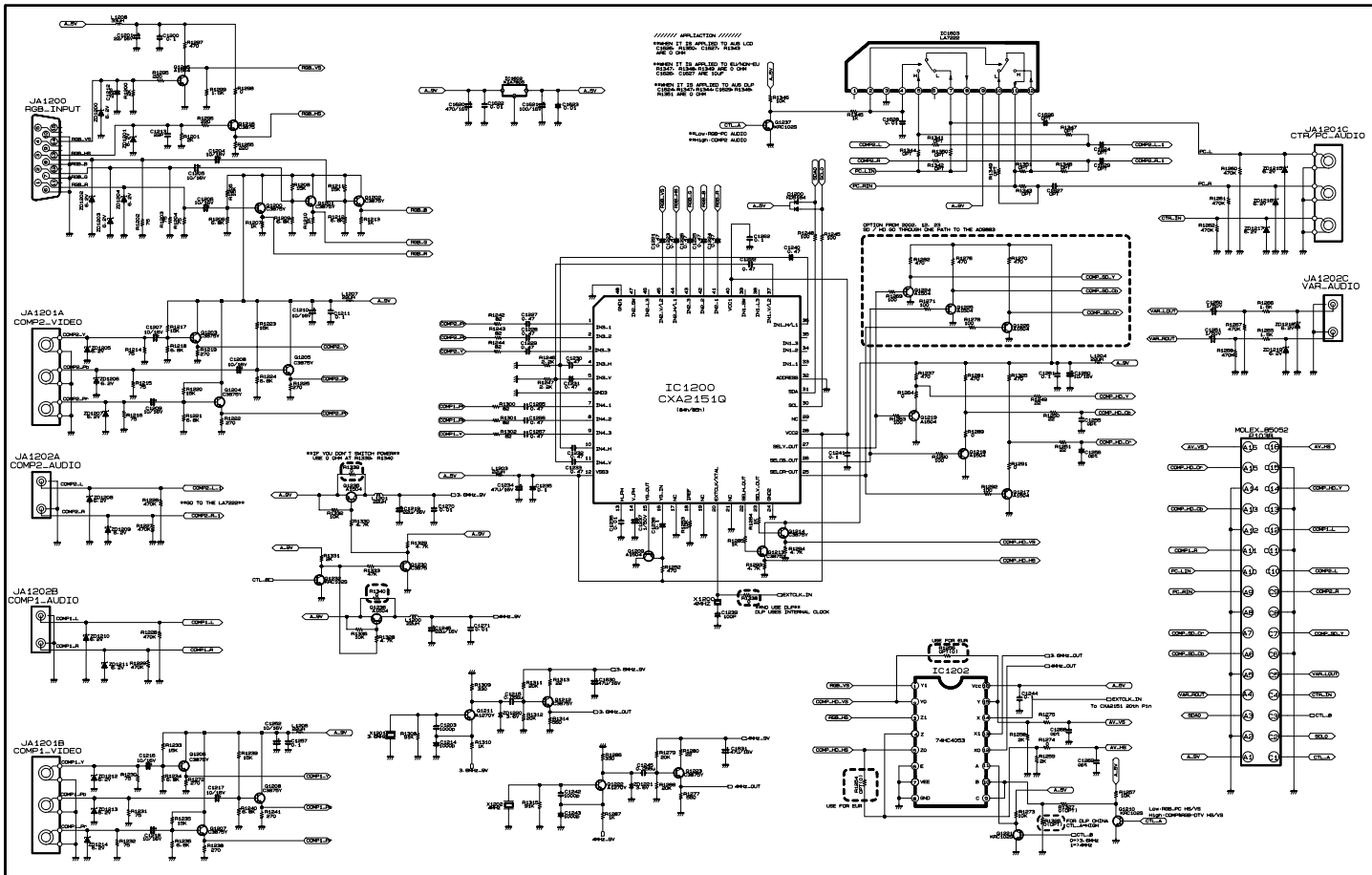
LOCA. NO	PART NO	DESCRIPTION
AR1204	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1205	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1206	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1207	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1208	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1209	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1210	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1211	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1212	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1213	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1214	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1215	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1216	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR1217	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
AR306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5%
D812	ORD0302F609	30 OHM 1/6 W 5.00% TA52
R1	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R104	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R106	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R1253	ORN1002F409	10K OHM 1/6 W 1.00% TA52
R1606	ORF0331H609	3.3 OHM 1/2 W 5.00% TA52
R1609	ORF0331H609	3.3 OHM 1/2 W 5.00% TA52
R1615	ORS2201K607	2.2K OHM 2 W 5.00% TA62
R1616	ORS2201K607	2.2K OHM 2 W 5.00% TA62
R2	ORD4703F609	470K OHM 1/6 W 5.00% TA52
R3	ORD4703F609	470K OHM 1/6 W 5.00% TA52
R4	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R402	ORN1201F409	1.2K OHM 1/6 W 1.00% TA52
R409	ORN2001F409	2K OHM 1/6 W 1.00% TA52
R425	ORN1201F409	1.2K OHM 1/6 W 1.00% TA52
R426	ORN1201F409	1.2K OHM 1/6 W 1.00% TA52
R5	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R801	ORKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R801B	ORD1801F609	1.8K OHM 1/6 W 5.00% TA52
R802B	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R803	ORN3903F409	390K 1/6W 1% TA52
R803	ORN3903G409	390K OHM 1/4 W 1% TA52
R803B	ORD0562H609	56 OHM 1/2 W 5.00% TA52
R805	ORN3303G409	330K OHM 1/4 W 1.00% TA52
R805B	ORD3300F609	330 OHM 1/6 W 5.00% TA52
R806	ORN3903F409	390K 1/6W 1% TA52
R806	ORN3903G409	390K OHM 1/4 W 1% TA52
R807	ORN3903F409	390K 1/6W 1% TA52
R807	ORN3903G409	390K OHM 1/4 W 1% TA52
R808	ORD8201H609	8.2K OHM 1/2 W 5.00% TA52
R809	ORD0302F609	30 OHM 1/6 W 5.00% TA52
R811	180-A01B	RW ROUND G 2W 0.11 K TA31(63)

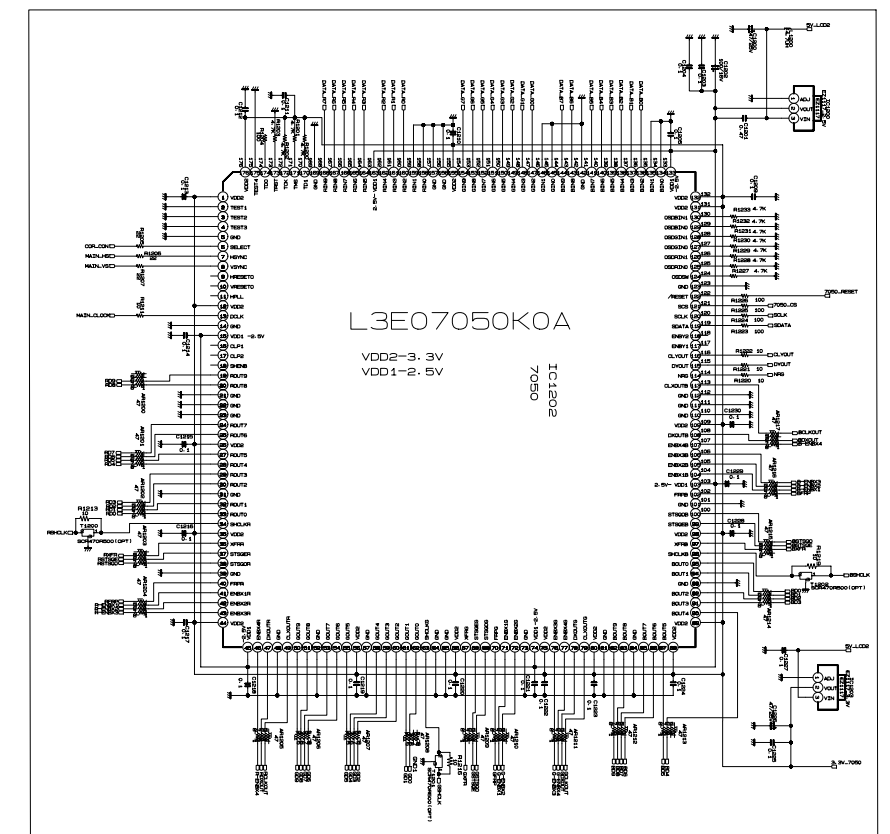
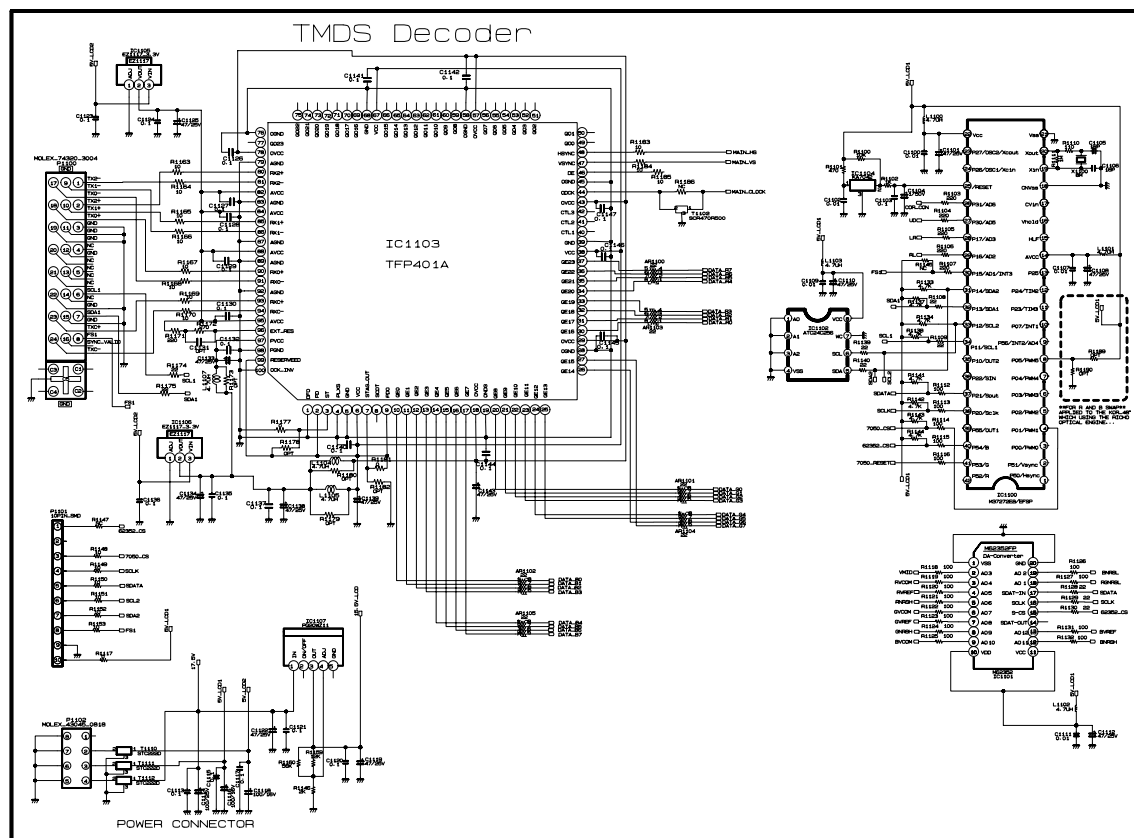
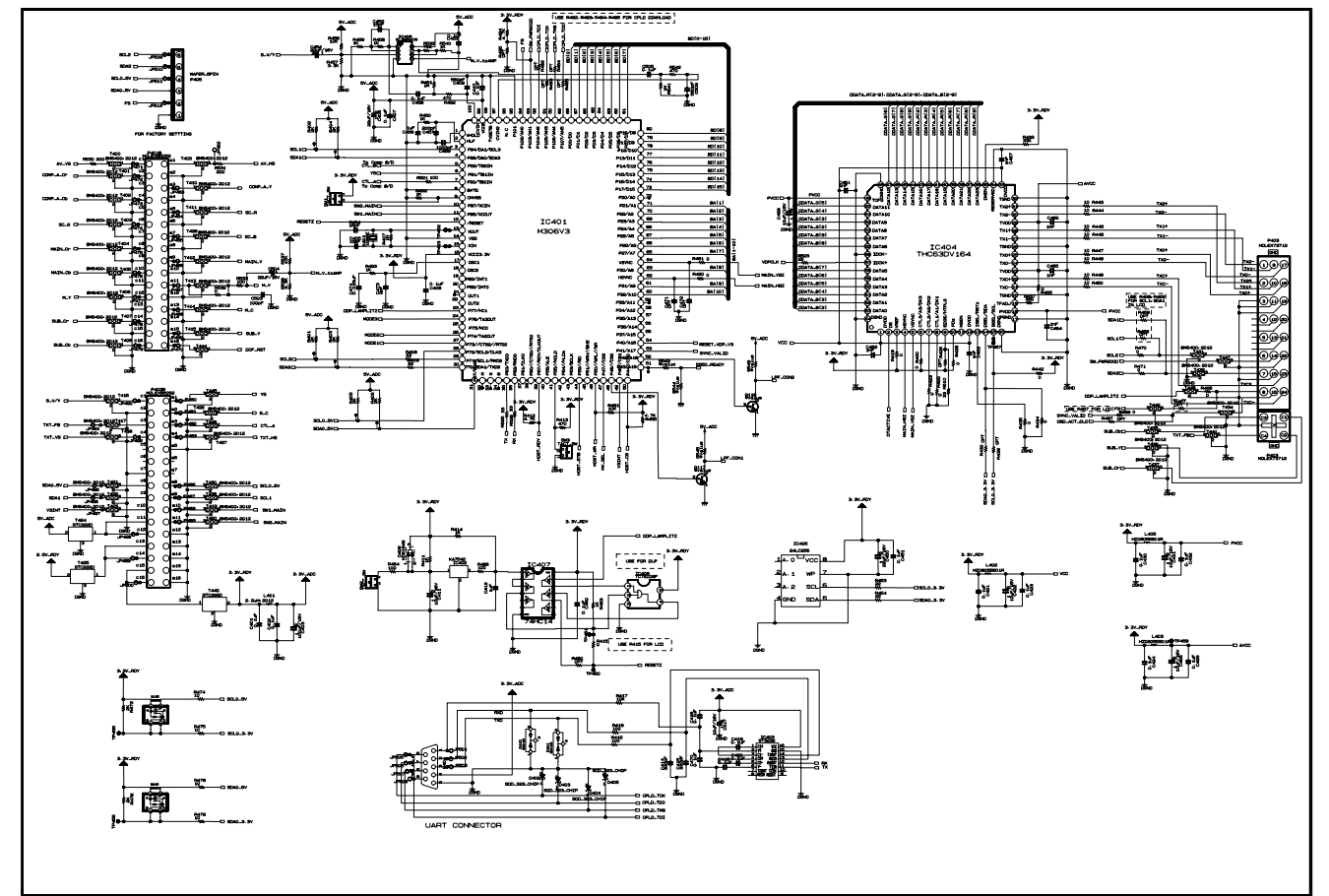
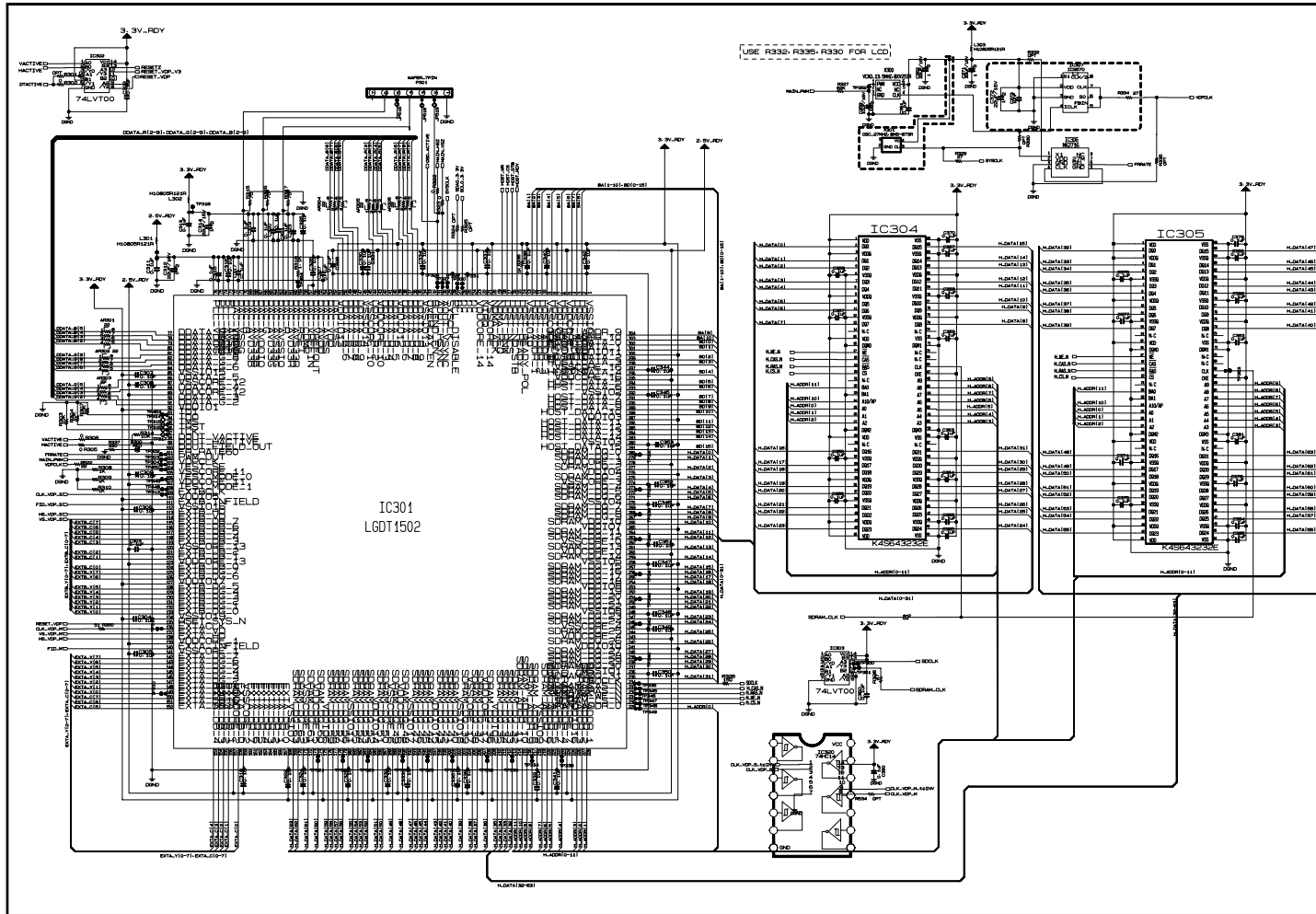
LOCA. NO	PART NO	DESCRIPTION
R812	0RN3903F409	390K 1/6W 1% TA52
R813	0RN3903F409	390K 1/6W 1% TA52
R814	0RN3903F409	390K 1/6W 1% TA52
R815	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R816	0RD2202F609	22K OHM 1/6 W 5% TA52
R817	0RD1202F609	12K OHM 1/6 W 5% TA52
R818	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R819	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R820	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R821	180-A01M	0.22 OHM 2 W 5% TA62 RW
R822	0RD1001F609	1K OHM 1/6 W 5% TA52
R823	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R824	0RD0332H609	33 OHM 1/2 W 5.00% TA52
R825	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R826	0RS2202K607	22K OHM 2 W 5.00% TA62
R827	0RS1202K607	12K OHM 2 W 5.00% TA62
R829	0RKZVTA001D	10M OHM 1/2 W 5% TA52
R831	0RS4702K607	47K OHM 2 W 5.00% TA62
R833	0RS0161K607	1.6 OHM 2 W 5.00% TA62
R834	0RS1203K607	120K OHM 2 W 5.00% TA62
R835	0RF0221H609	2.2 OHM 1/2 W 5.00% TA52
R840	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R841	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R842	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R843	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R844	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R845	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R851	0RD2401F609	2.4K OHM 1/6 W 5.00% TA52
R852	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R853	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R854	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R855	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R857	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R871	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R90	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
SWITCH		
SW01	140-315A	TACT SKHV17910B LG C&D NON 12V
SW02	140-315A	TACT SKHV17910B LG C&D NON 12V
SW03	140-315A	TACT SKHV17910B LG C&D NON 12V
SW04	140-315A	TACT SKHV17910B LG C&D NON 12V
SW05	140-315A	TACT SKHV17910B LG C&D NON 12V
SW06	140-315A	TACT SKHV17910B LG C&D NON 12V
SW07	140-315A	TACT SKHV17910B LG C&D NON 12V
SW2	140-313A	TACT 2LEAD 100G(TA) LG C&D NON 5V
SW801	140-289A	POWER SDDF3PASP013 LG C&D UL/C
CRYSTAL & FILTER		
FB819	125-123A	FERRITE BFD3565R2F(TAPING)
FB820	125-022K	FERRITE 1UH TAPING
FB821	125-022K	FERRITE 1UH TAPING
FB822	125-022K	FERRITE 1UH TAPING

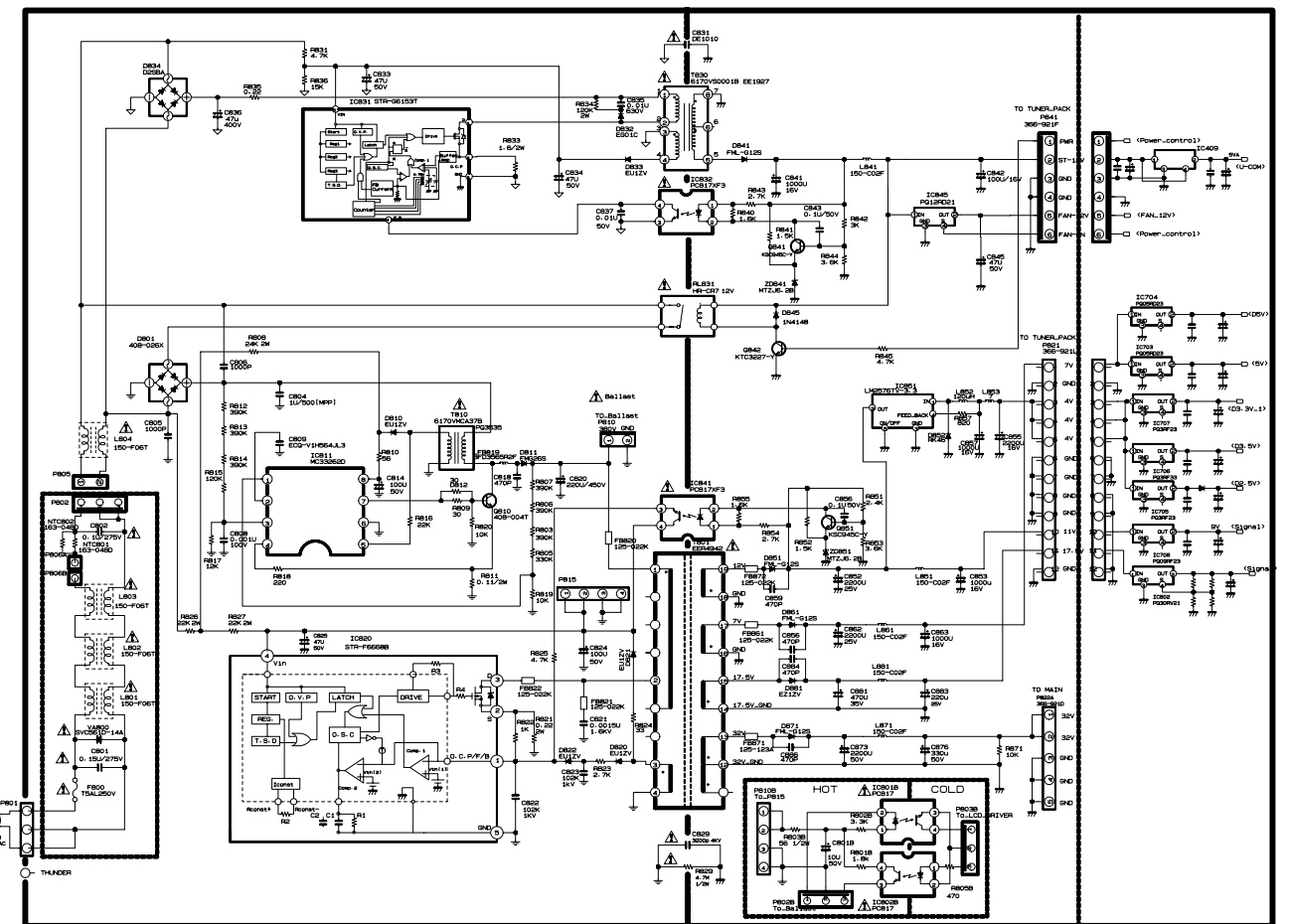
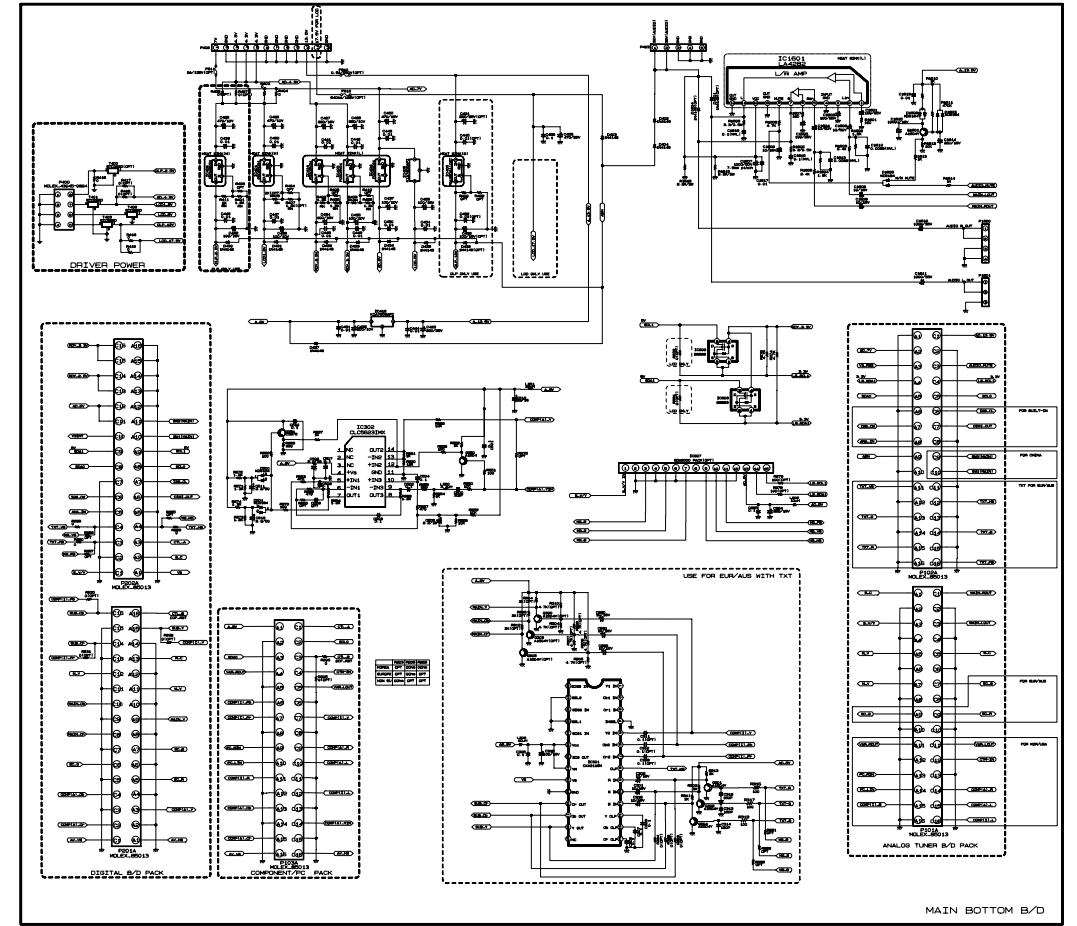
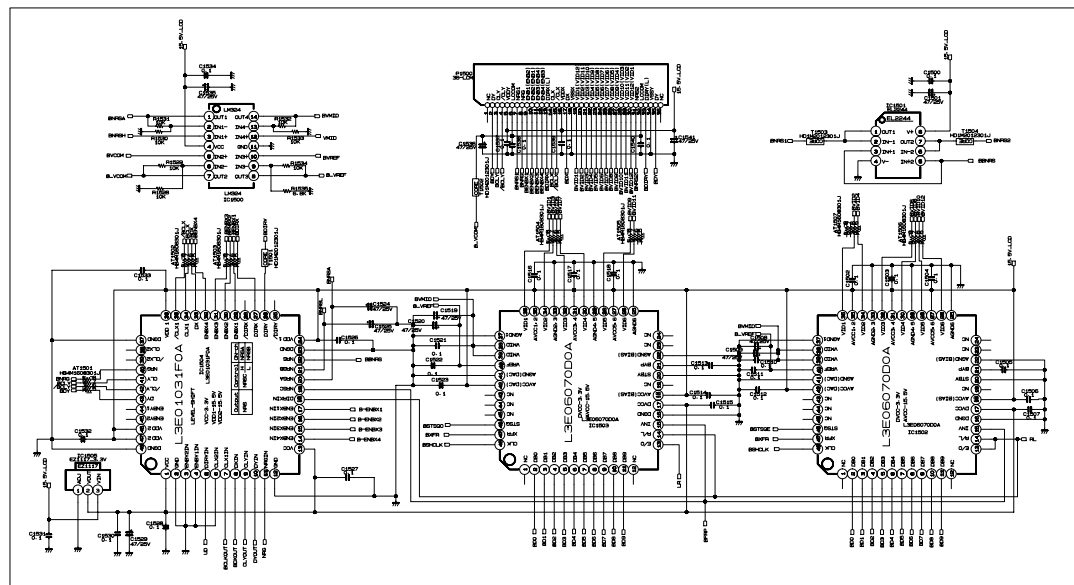
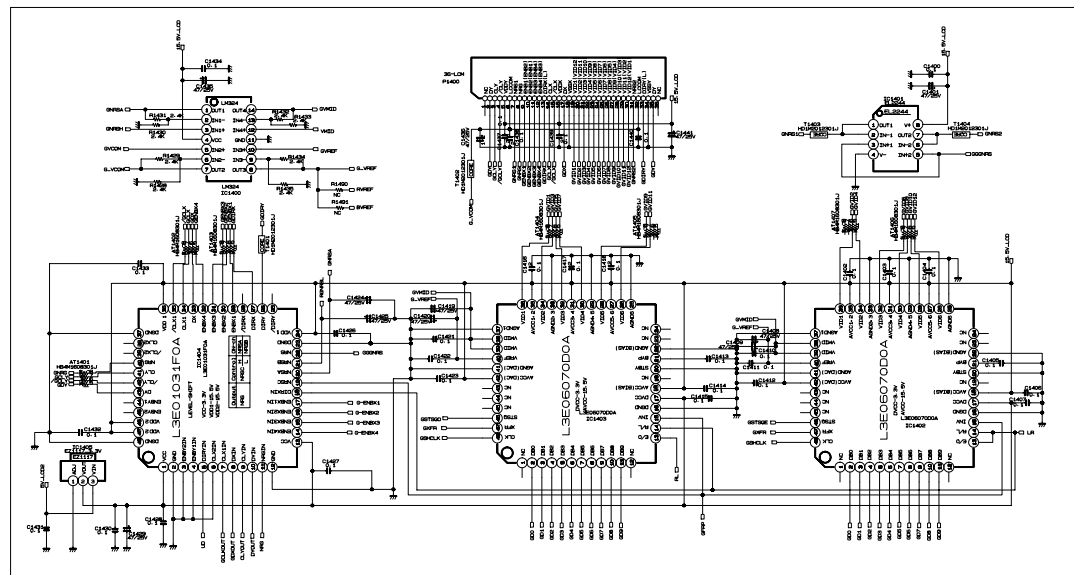
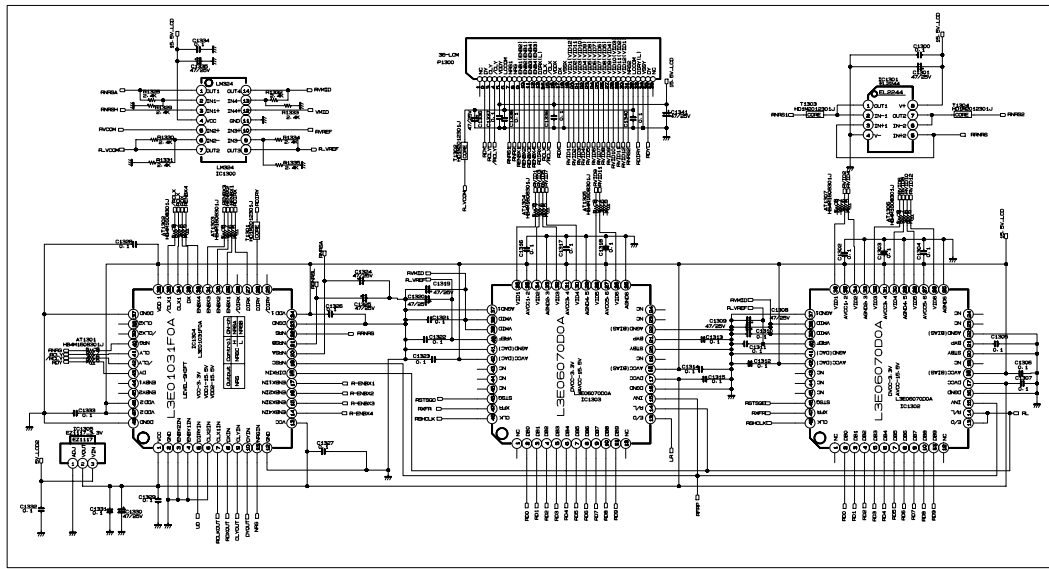
LOCA. NO	PART NO	DESCRIPTION
FB861	125-123A	FERRITE BFD3565R2F(TAPING)
FB871	125-123A	FERRITE BFD3565R2F(TAPING)
FB872	125-123A	FERRITE BFD3565R2F(TAPING)
L801	150-F06T	SQE3535 20MH PHY TURN
L802	150-F06T	SQE3535 20MH PHY TURN
L803	150-F06T	SQE3535 20MH PHY TURN
L804	150-F06T	SQE3535 20MH PHY TURN
T110	0IZZVF0022B	AMF730F6M00X2(AF-9397) 15P
T1102	6200JB8009Q	SCR470R220 NIIGATA R/TP RN52NZ10H
T1110	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T1111	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T1112	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T250	6200C000012	TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T251	6200C000012	TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T400	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T401	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T402	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T402	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T403	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T406	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T407	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T408	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T409	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T410	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T414	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T415	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T416	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T417	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T418	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T419	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T420	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T421	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T422	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T423	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T424	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T425	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T426	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T427	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T430	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T431	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T432	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T438	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T440	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T444	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T446	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
X1	156-A01L	RESONATOR,CRYSTAL HC49U 6.000MHZ 30PPM
X101	6202VDT002E	RESONATOR,CRYSTAL SX-1SMD 20250000HZ 30PPM
X102	6202VDT002E	RESONATOR,CRYSTAL SX-1SMD 20250000HZ 30PPM
X1100	6202VDT002D	RESONATOR,CRYSTAL SX-1SMD 8.0MHZ 30PPM
X1201	156-A01B	RESONATOR,CRYSTAL HC49U 3.579545MHZ 30PPM
X1202	156-A01E	RESONATOR,CRYSTAL HC49U 4.000MHZ 30PPM

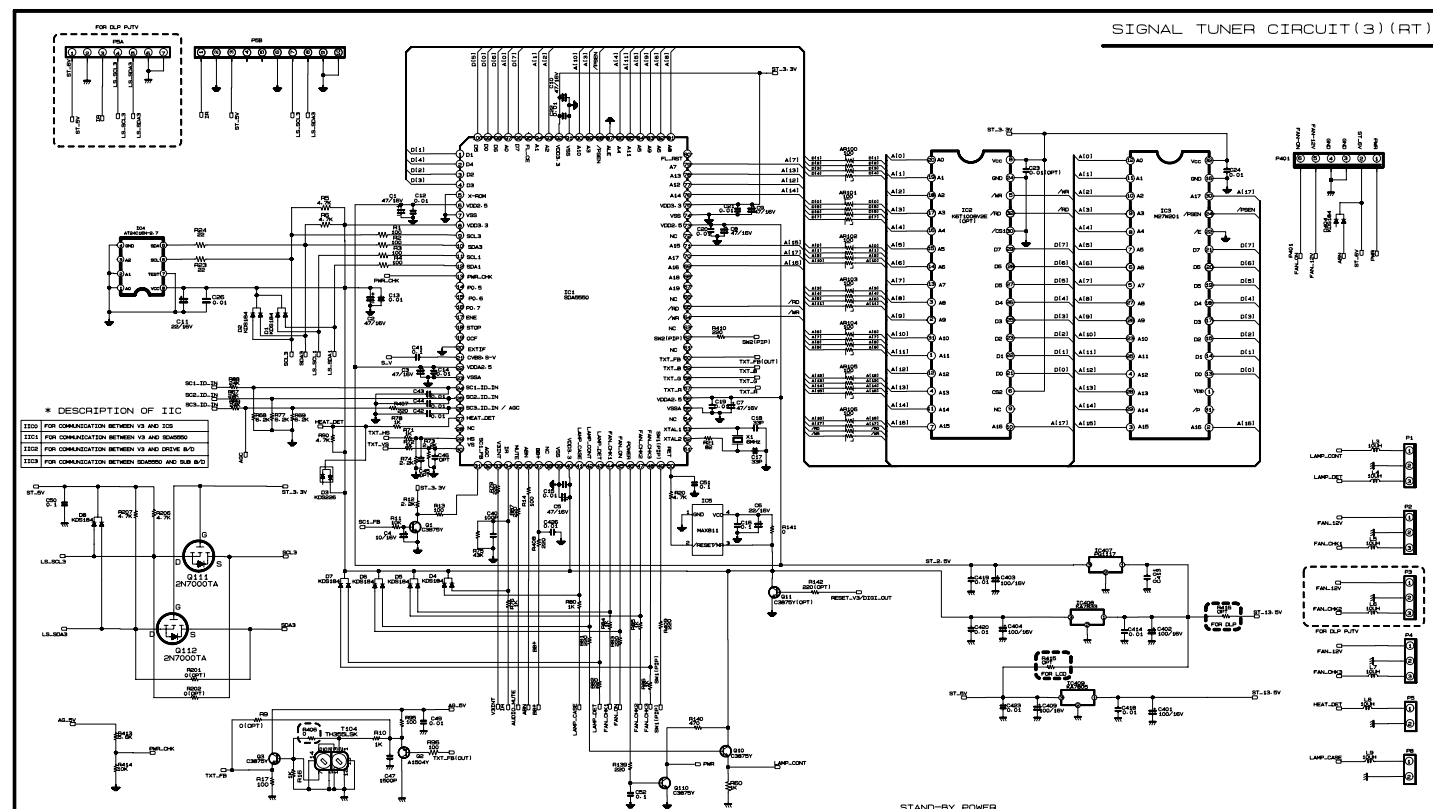
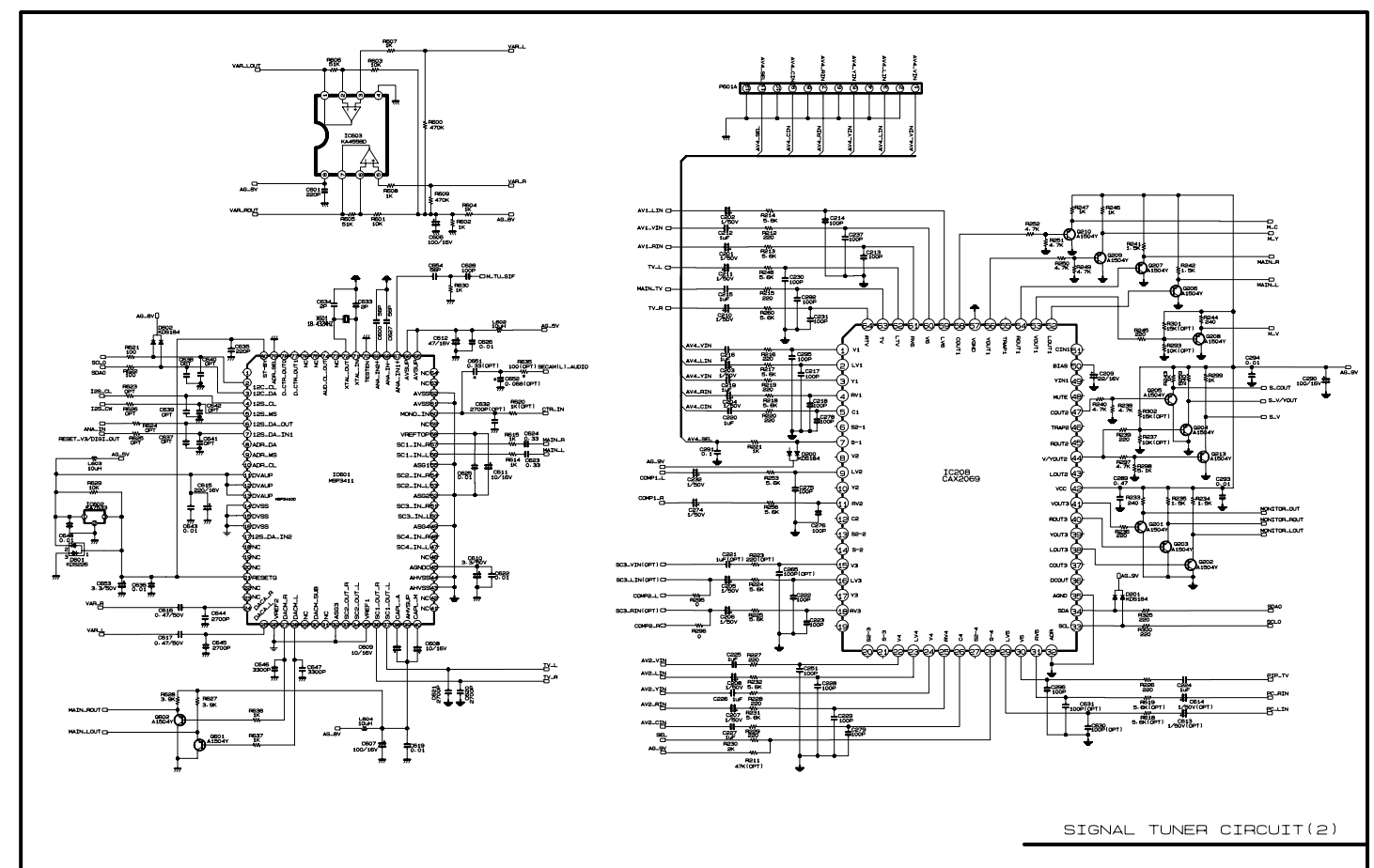
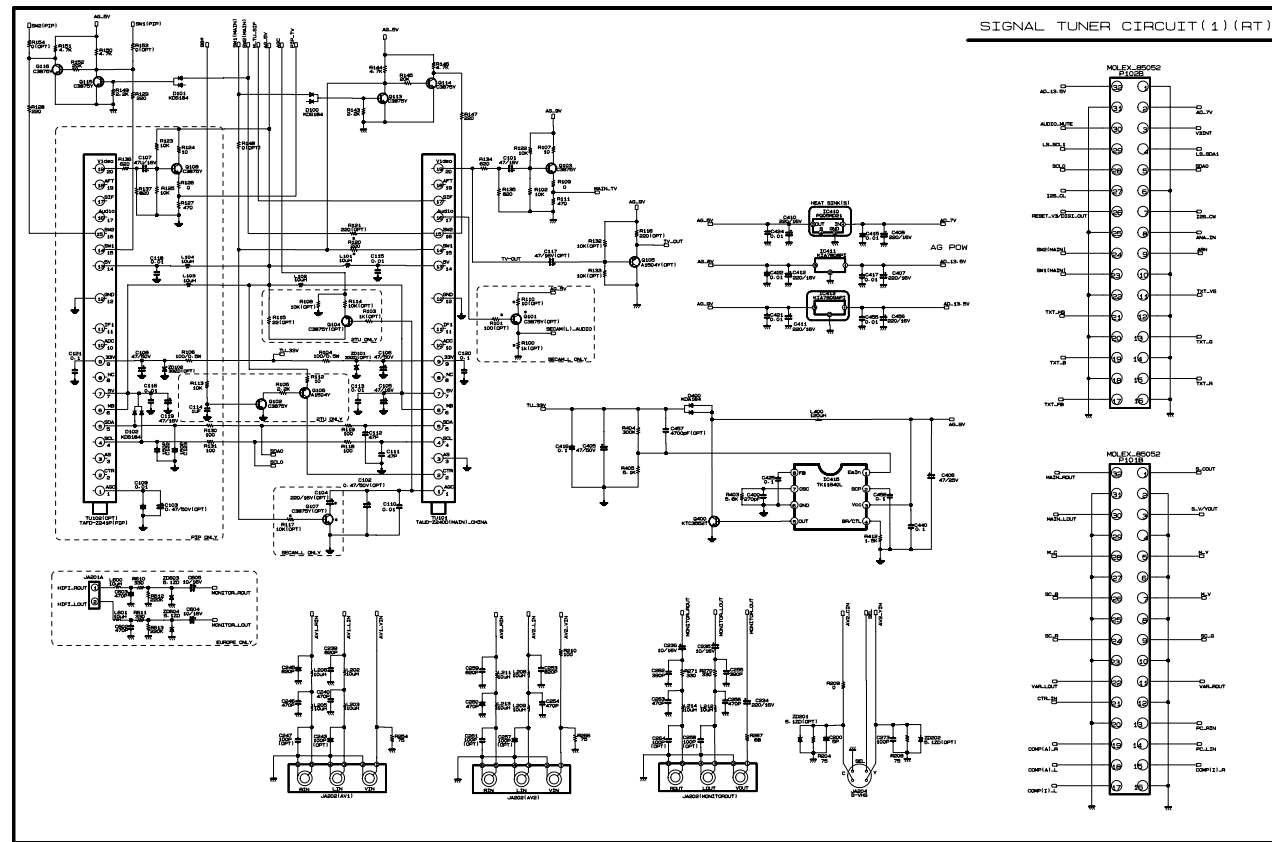
LOCA. NO	PART NO	DESCRIPTION
X401	6212AB2015D	RESONATOR,CRYSTAL HC-49/SM 16MHZ +/- 50 PPM
X601	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM
ACCESSORIES		
A1	3828VA0401A	MANUAL,OWNERS MB03CA NEU LG EN 100E TX
A2	6710V00100E	REMOTE CONTROLLER, NB03JA MONO
MISCELLANEOUS		
F800	0FS5001B51D	FUSE,SLOW BLOW5000MA 250 V 5.2X20
IC3	6620VF3201A	SOCKET(CIRC),IC822473-3 AMP 32PIN 2.54MM
L852	6170VZ0005A	TRANSFORMER,IRON-15 120UH
NTC801	163-048D	THERMISTOR, KL15L2R5 SSANSHIN +/- 15% 125V
NTC802	163-048D	THERMISTOR, KL15L2R5 SSANSHIN +/- 15% 125V
PA1	6726VH0001A	REMOTE CONTROLLER RECEIVER, TSOP1238RF1
TU101	6700MF0001C	TUNER, TAUD-Z240D LG MULTI FS 4SYS,2IN1,MAIN
TU102	6700MF0001D	TUNER, TAFD-Z241P LG MULTI FS 4SYS,2 IN 1,SUB
VA800	164-003K	VARISTOR,SVC621D-14A ILJIN 620V 0%
X300	6204B60001B	OSCILLATOR,VCXO 27MHZ +/- 100 PPM 3.3V

LOCA. NO	PART NO	DESCRIPTION









S VC. SHEET : 3854VA0117C-S1
3854VA0117C-S2