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LCD Projection TV

SERVICE MANUAL

CHASSIS : MB-03CA

MODEL : RZ-48SZ40/41RB

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 its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

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

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

Keep wires away from high voltage or high temperature parts.

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

Before returning the receiver to the customer,

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

Leakage Current Cold Check(Antenna Cold Check)

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

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

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

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

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

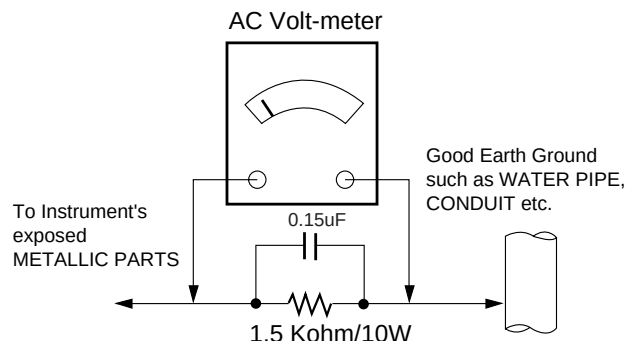
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

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

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

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

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

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

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

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

CAUTION: This is a flammable mixture. Unless specified otherwise in this service manual, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.
9. Use with this receiver only the test fixtures specified in this service manual.

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

Electrostatically Sensitive (ES) Devices

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a 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 circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

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

Removal

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

Replacement

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

"Small-Signal" Discrete Transistor

Removal/Replacement

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

Power Output, Transistor Device

Removal/Replacement

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

Diode Removal/Replacement

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

Fuse and Conventional Resistor

Removal/Replacement

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

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

Circuit Board Foil Repair

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

At IC Connections

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

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

At Other Connections

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

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

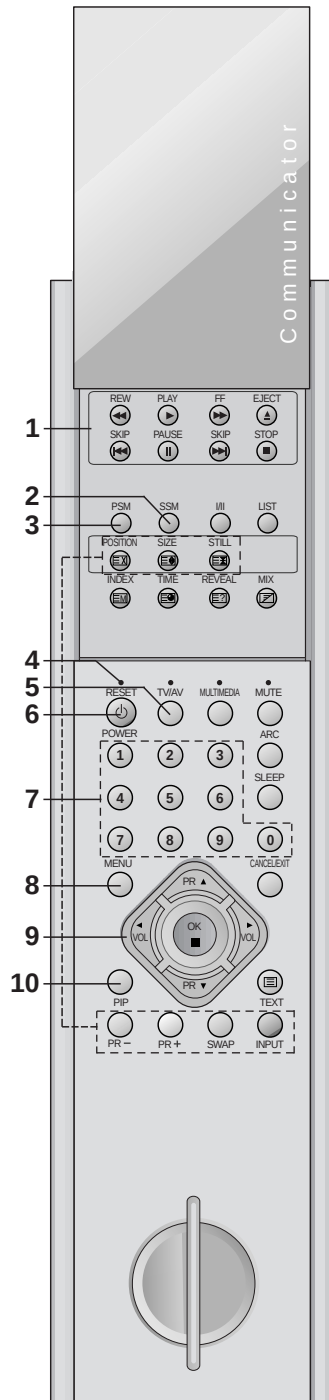
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

CONTROL DESCRIPTIONS

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

Communicator

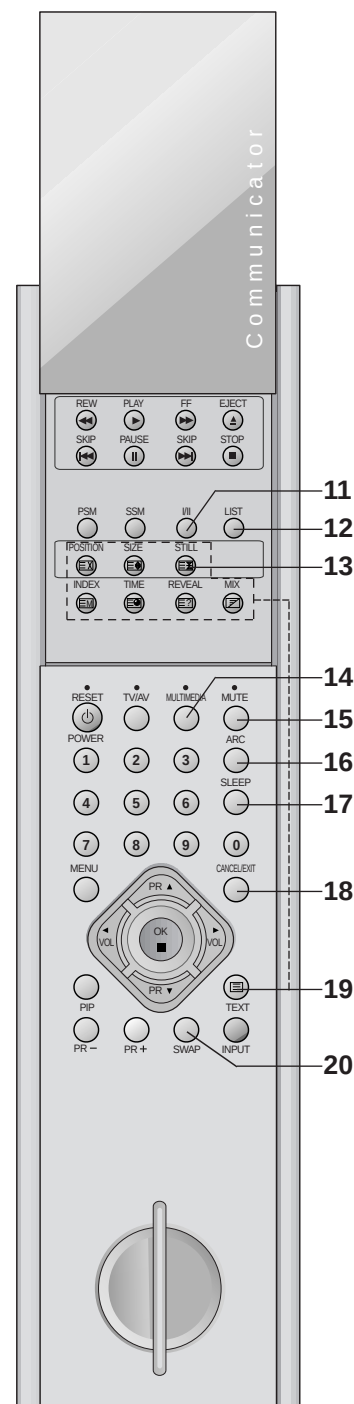
Before you use it, please select TV, VCR or DVD function by pressing the TV, VCR or DVD buttons.



- 1. DVD BUTTONS**
control a LG DVD player.
- 2. SSM (Sound Status Memory)**
recalls your preferred sound setting.
- 3. PSM (Picture Status Memory)**
recalls your preferred picture setting.
- 4. TV/AV**
selects the remote operating mode.
switches the set on from standby.
- 5. RESET**
When Communicator does not work, reset the Communicator by pressing the reset point with sharp one.
- 6. POWER**
switches the set on from standby or off to standby.
- 7. NUMBER BUTTONS**
switches the set on from standby or directly select a number.
- 8. MENU**
selects a menu.
- 9. ▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
◀ / ▶ (Volume Down/Up)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
- 10. PIP BUTTONS (option)**
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.

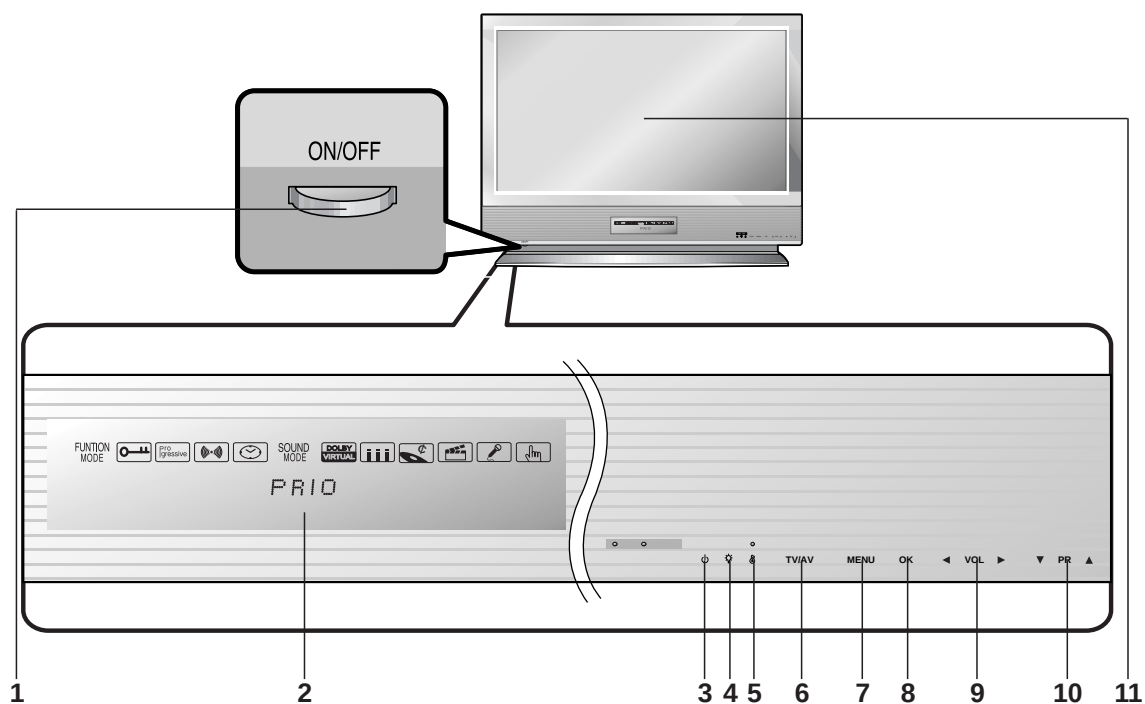
11. **I/II**
selects the language during dual language broadcast.
selects the sound output (option).
12. **LIST**
displays the programme table.
13. **STILL**
freezes motion of the picture.
14. **MULTIMEDIA**
selects Component 1/2 or RGB-PC modes.
15. **MUTE**
switches the sound on or off.
16. **ARC (Aspect Ratio Control)**
changes the picture format.
17. **SLEEP**
sets the sleep timer.
18. **CANCEL/EXIT**
Clears all on-screen displays and returns to TV viewing from any menu.
19. **TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
20. **SWAP**
returns to the previously viewed programme.

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



Front panel

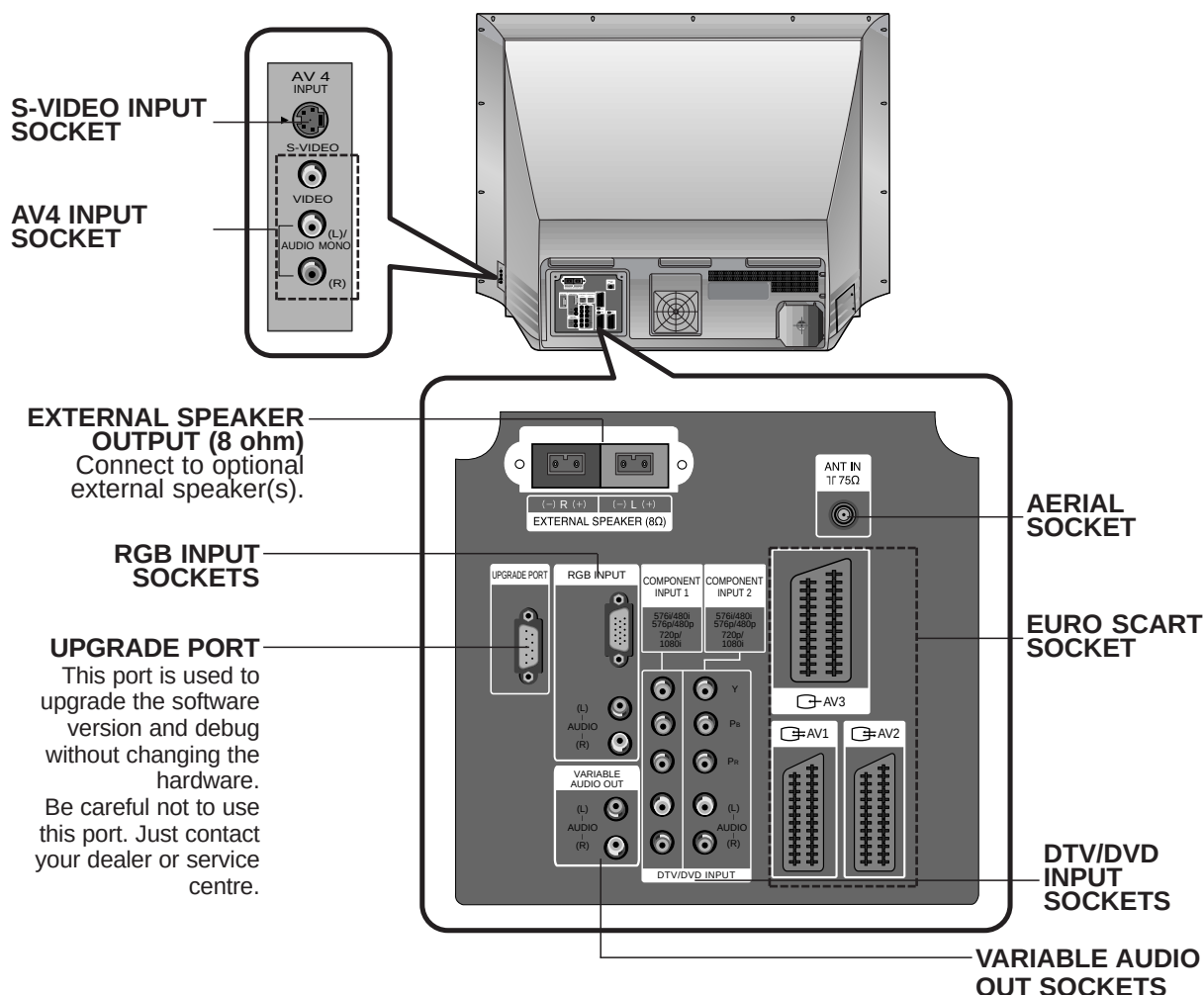
Lamp indicator, operation indicator, and temperature indicator, located below the front panel controls reveal the operating status of the LCD projection TV.



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

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

Rear panel



•Status Indicators

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

SPECIFICATIONS

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

■ Scope

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

■ Test and Inspection Method

- 1) performance:Follow the Standard of LG TV test
- 2) Standards of Etc requirement
 - Safety: Follow the standard of CB
 - EMC : Follow the standard of CE

■ Test Condition

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

■ General Specification

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

■ Feature and Function

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

■ Power

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

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

■ External Interface

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Video Input Level	0.85	a1	1.15	Vpp	
2.	Video Input Frequency Response	3			MHz	
3.	Video output S/N	40			dB	
4.	S-Video Input Level (Y)	0.85	1	1.15	Vpp	
5.	S-Video Input Level (C-Burst)	0.256	0.286	0.316	Vpp	
6.	Component Video Input Level (Y, C _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	0.63	0.79	Vrms	
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		EDRV 576P
6.	1280x720	45.00	60.00		HDTV 720P (60Hz)
7.	1280x720	37.50	50		HDTV 720P (50Hz)
8.	1920x1080	33.75	60.00		HDTV 1080I (60Hz)
9.	1920x1080	28.125	50		HDTV 1080I (50Hz)

■ Option

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

ADJUSTMENT INSTRUCTIONS

1. Application Object

This instruction is for the application to the LCD Projection

2. Notes

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

3. Composition of Adjustment Mode

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

RT52SZ30RB [V*.]
 RGB Alignment
 62352
 Uniformity Adj
 Gamma Adjust
 AD9883 Adjust

Sub Micom Ver. **
 Main Micom Ver. **

<The first screen of adjustment mode>

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

RGB Alignment
 9.DXOUTB
 10.H_positon



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

4. LCD adjustment

4-1. NRS adjustment

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

(1) Required Test Equipments

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

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

(3) Preparation for Adjustment

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

(4) Adjustment Sequence

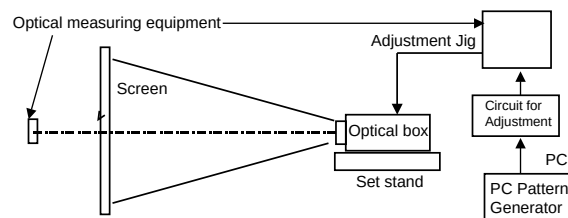
- 1) Turn on power supply in the JIG for adjustment.
- 2) Press the INPUT key to select RGB_PC mode.
- 3) Press the ADJ key on remote control for adjustment to enter the adjustment mode.
- 4) Select the '62352' and press the ► key. Then select 6. RNRSH, 9. GNRSH, 11. BNRSH of ADJUST MODE to adjust.
-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

4-2. VCOM ADJUSTMENT

(1) Required Test Equipments

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

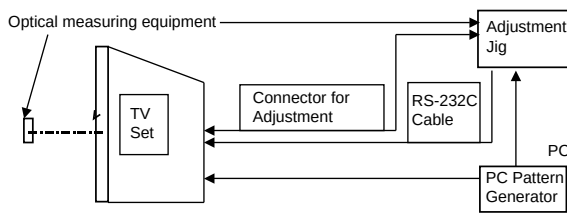
(2) Composizione della strumentazione



<Fig 1. Adjustment of circuit>

(3) Preparation for Adjustment

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



<Fig 2.TV set status Adjustment>

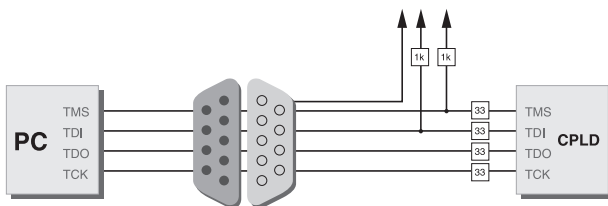
(4) Adjustment Sequence

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

5. CPLD Download Work

(1) Required Test Equipments & Preparation for Adjustment

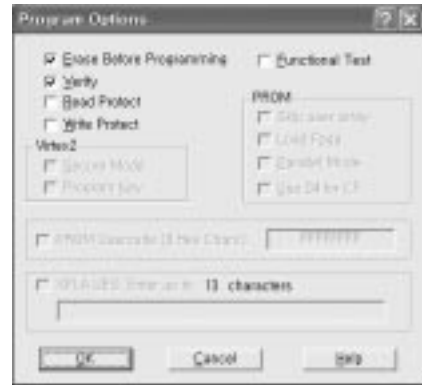
- 1) Connect the PC and memory JIG as shown <fig3>.
- 2) Turn on JIG MAIN POWER SW.
- 3) After turn on the PC and monitor, operate the device programming.



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

(2) Adjustment Sequence

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



<Fig 4. Program Options>

6. H/V Position Adjustment

(1) Required Test Equipments

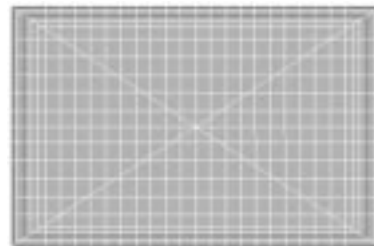
A remote control of adjustment

(2) Preparation for Adjustment

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

(3) Adjustment Sequence

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



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

7. Screen position adjustment

(1) Required Test Equipments

A remote control of adjustment

(2) Preparation for Adjustment

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

(3) Horizontal Position Adjustment

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

(4). Vertical Position Adjustment

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



[EU 05 CH]

8. Component Offset Adjustment

(1) Required Test Equipments :

A remote control for adjustment, 801GF

(2) Preparation for Adjustment

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



<Fig 7. 720P HozTVBar Pattern>

(3) Offset Adjustment

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

(4) Component & RGB Mode White Balance passivity adjustment

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

9. White Balance & Gamma Adjustment

(1) Required Test Equipments

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

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

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

(2) Equipment composition : Follow <Fig 2>

Adjust at same condition of equipment composition diagram.

(3) Preparation for Adjustment

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

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

(4) Adjustment Sequence

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

Gamma Adjust			*First column : R adjustment data display
R:1	G:2	B:3	
80	100	100	*Second column : G adjustment data display
234	216	216	
453	411	387	
-----			*Third column : B adjustment data display
724	690	780	

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

10. White Uniformity Adjustment

(1) Required Test Equipments

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

(2) Equipment composition

Compose the equipment as Fig.2

(3) Preparation for Adjustment

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

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

$$\text{hex } (0.012658227 \times 2^{16}) = 0 \times 033D, Hcoeff (\text{hex}) = 0 \times 033D + 1 = 0 \times 33E$$

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)

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

$$\text{hex } (0.016949152 \times 2^{16}) = 0 \times 0456, Vcoeff (\text{hex}) = 0 \times 0456 + 1 = 0 \times 0457$$

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))

$$L1 \text{ coeff} = 1/(448 - 192) = 1 / 256 = 0.00390625$$

$$L1 \text{ coeff}(\text{hex}) = \text{hex}(0.00393625 \times 2^{18}) = 0 \times 0400$$

$$\rightarrow L1H(\text{high 9bit}) = b'000000010$$

$$L1L(\text{low 9bit}) = b'000000000$$

- calculate L2, L3 same with L1

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

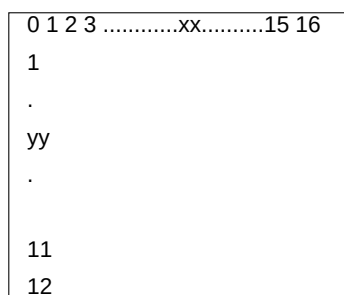
L3 coefficient = 1/(brightness level(MAX) - brightness level(MID1))
: case of 4 brightness Level

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

- in G MID1.
- Change according to GMID1 and GMAX value.
(use it while adjusting 4 coefficient)
 - 23. BL1H : Upper 9bit of MID2 brightness correction coefficient in B MIN.
--- Change according to BMIN and BMID2 value.
 - 24. BL1L : Lower 9bit of MID2 brightness correction coefficient in B MIN.
--- Change according to BMIN and BMID2 value.
 - 25. BL2H : Upper 9bit of MID1 brightness correction coefficient in B MID2.
--- Change according to BMID2 and BMID1 value.
 - 26. BL2L : Lower 9bit of MID1 brightness correction coefficient in B MID2.
--- Change according to BMID2 and BMID1 value.
 - 27. BL3H : Upper 9bit of MAX brightness correction coefficient in B MID1.
--- Change according to BMID1 and BMAX value.
(use it while adjusting 4 coefficient)
 - 28. BL3L : Lower 9bit of MAX brightness correction coefficient in B MID1.
--- Change according to BMID1 and BMAX value.
(use it while adjusting 4 coefficient)
 - 29. RLMIN : Setting up the 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) White the miner, middle, maximum data for each point to confront to each MICOM address.

11. Brightness Adjustment of Main/Sub screen

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

- (1) Receive RF 06Ch. to Main/Sub screen in twin picture.
- (2) Let the screen clearly.
- (3) Check the "US06CH" with naked eyes in 06Ch. pattern and if there is difference, adjust like this.
- The field and the letters are distinguished.
- (4) Adjusting Main screen
 - 1) Press the "IN Start" key on R/C for adjustment to select VPC3230_Main.
 - 2) Adjust to Luma Contrast of adjustment item with Channel key. (initial value 32)
- (5) Adjusting Sub screen
 - 1) Press the "IN Start" key on R/C for adjustment to select VPC3230_Sub.
 - 2) Adjust to Lima Contrast of adjustment item with +/- key. (initial value 32)

12. Lamp Replace

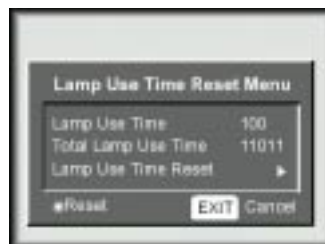
Use it when the Lamp time is '0'.

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

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

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

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



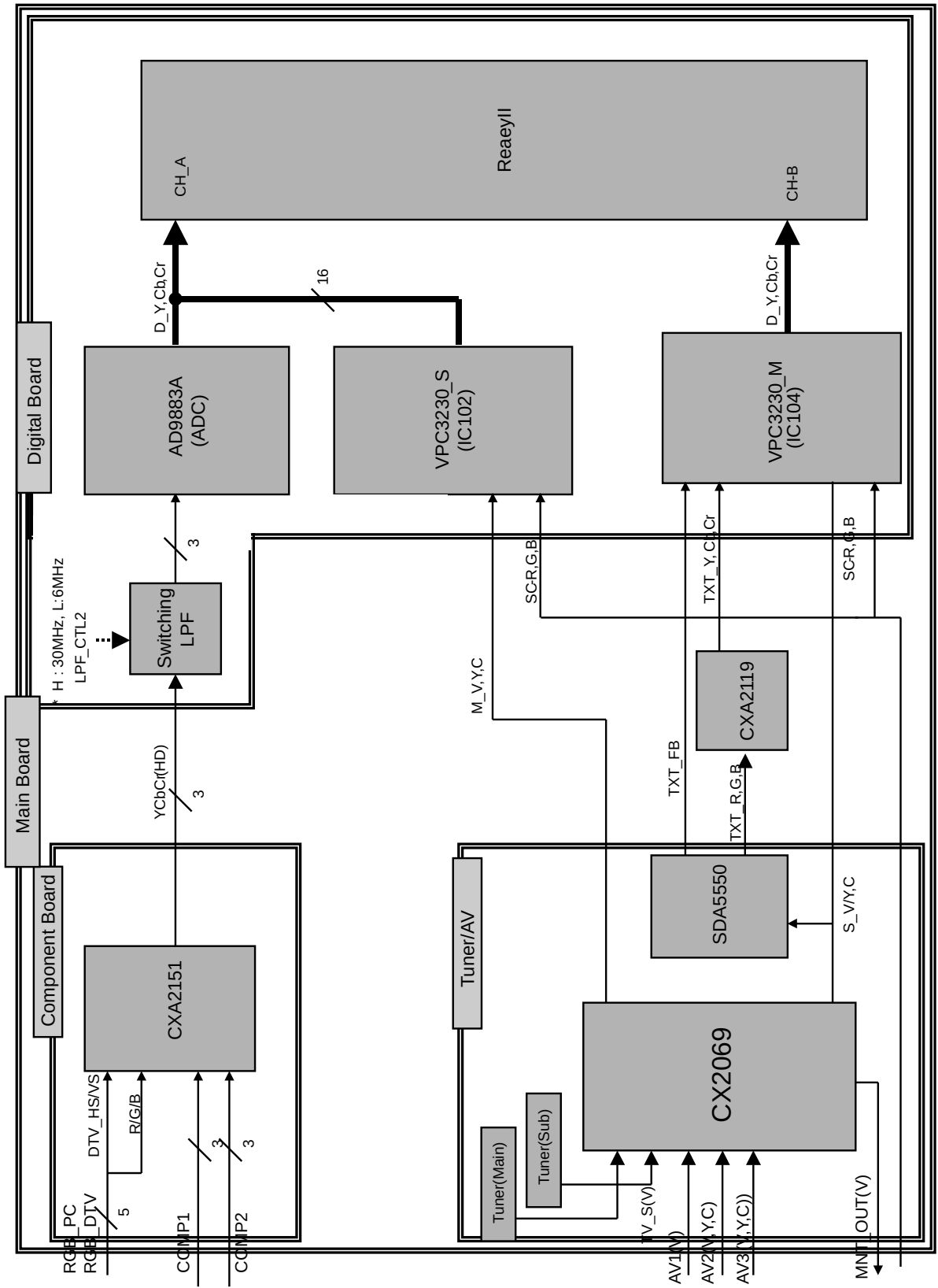
<Fig8. Lamp Use Time Reset Menu>



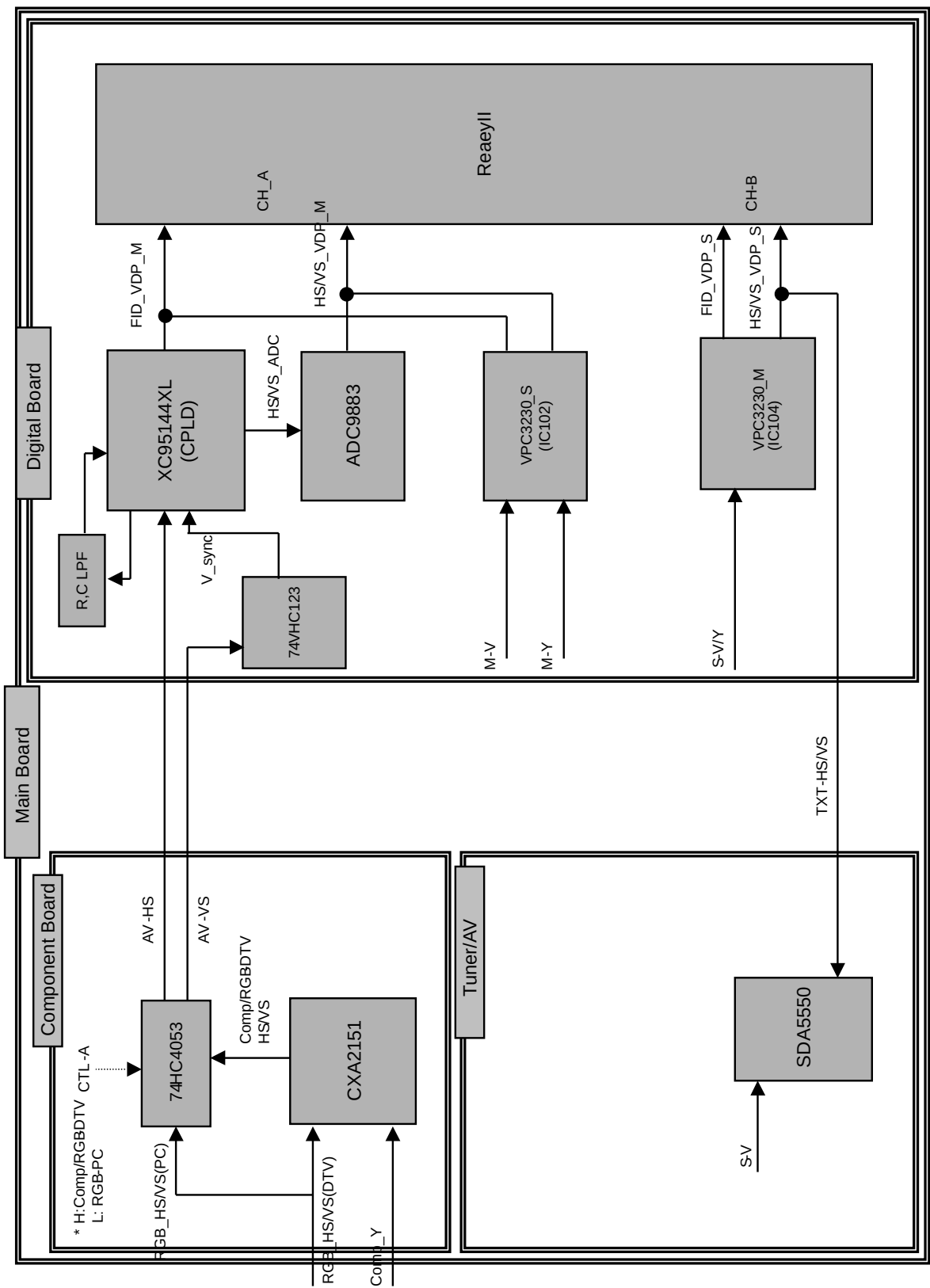
<Fig9. Reset Confirm>

BLOCK DIAGRAM

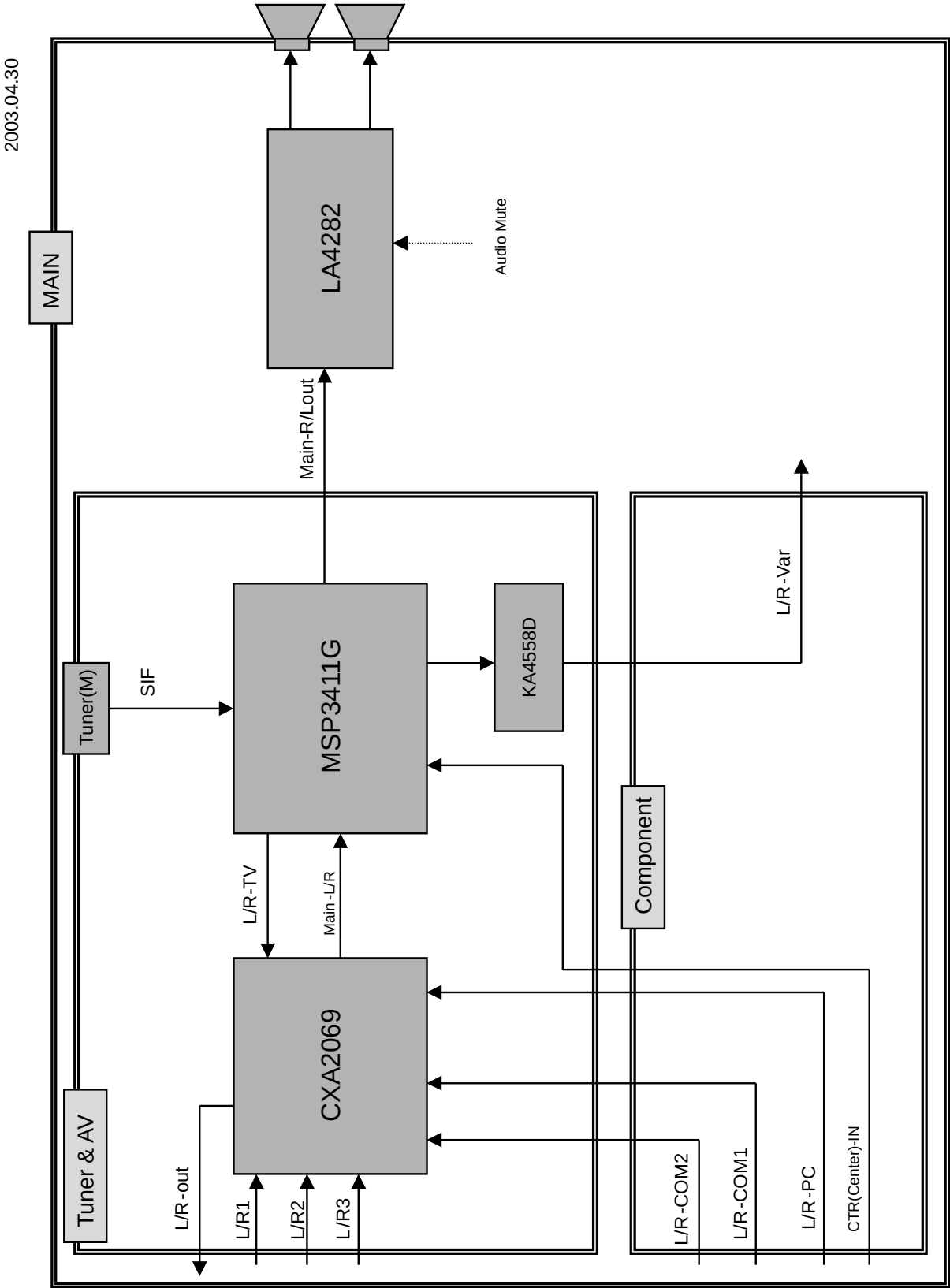
1. Video Input Path



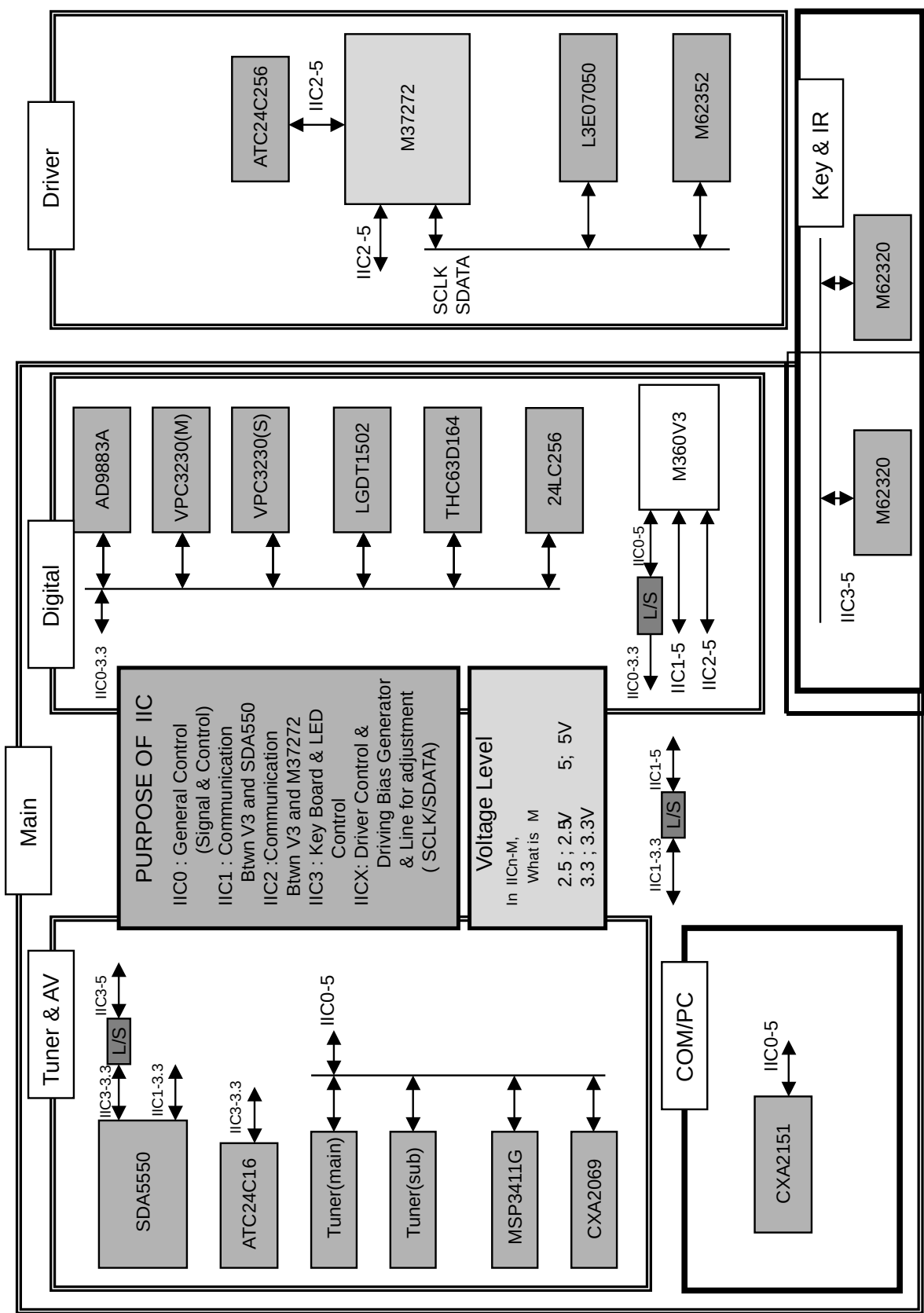
2. Syms I/O Path



3. Audio Input Path



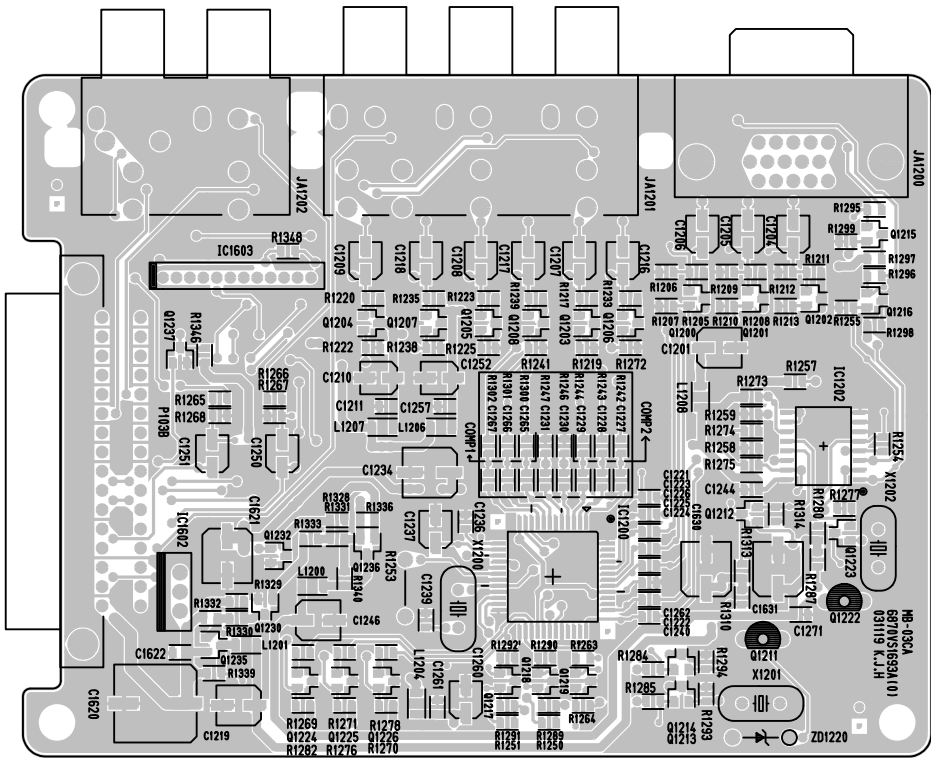
4. Control Signal Connection Diagram- IIC



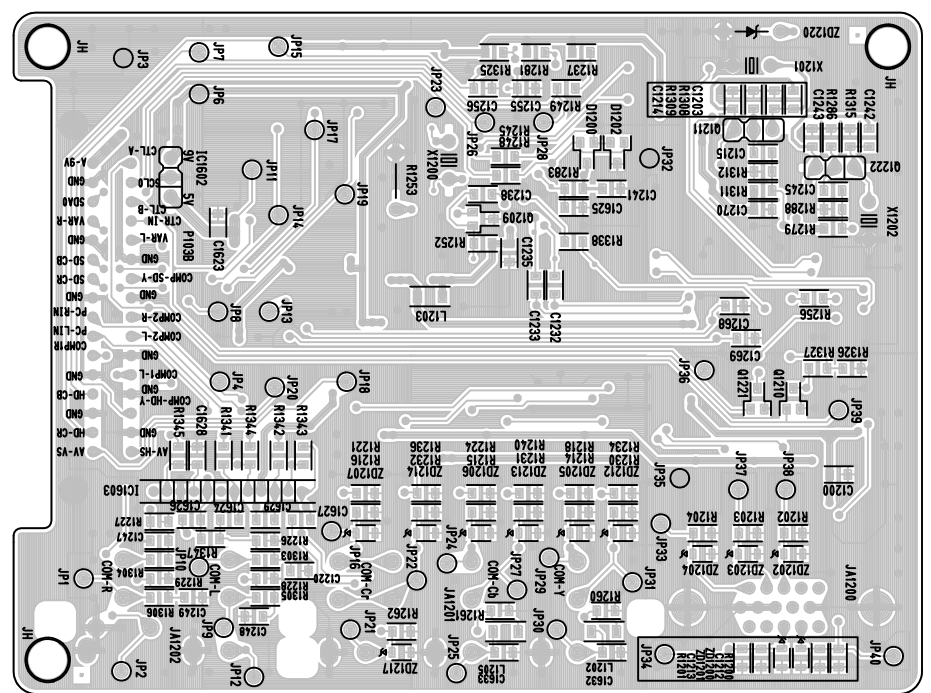
MAIN (TOP)



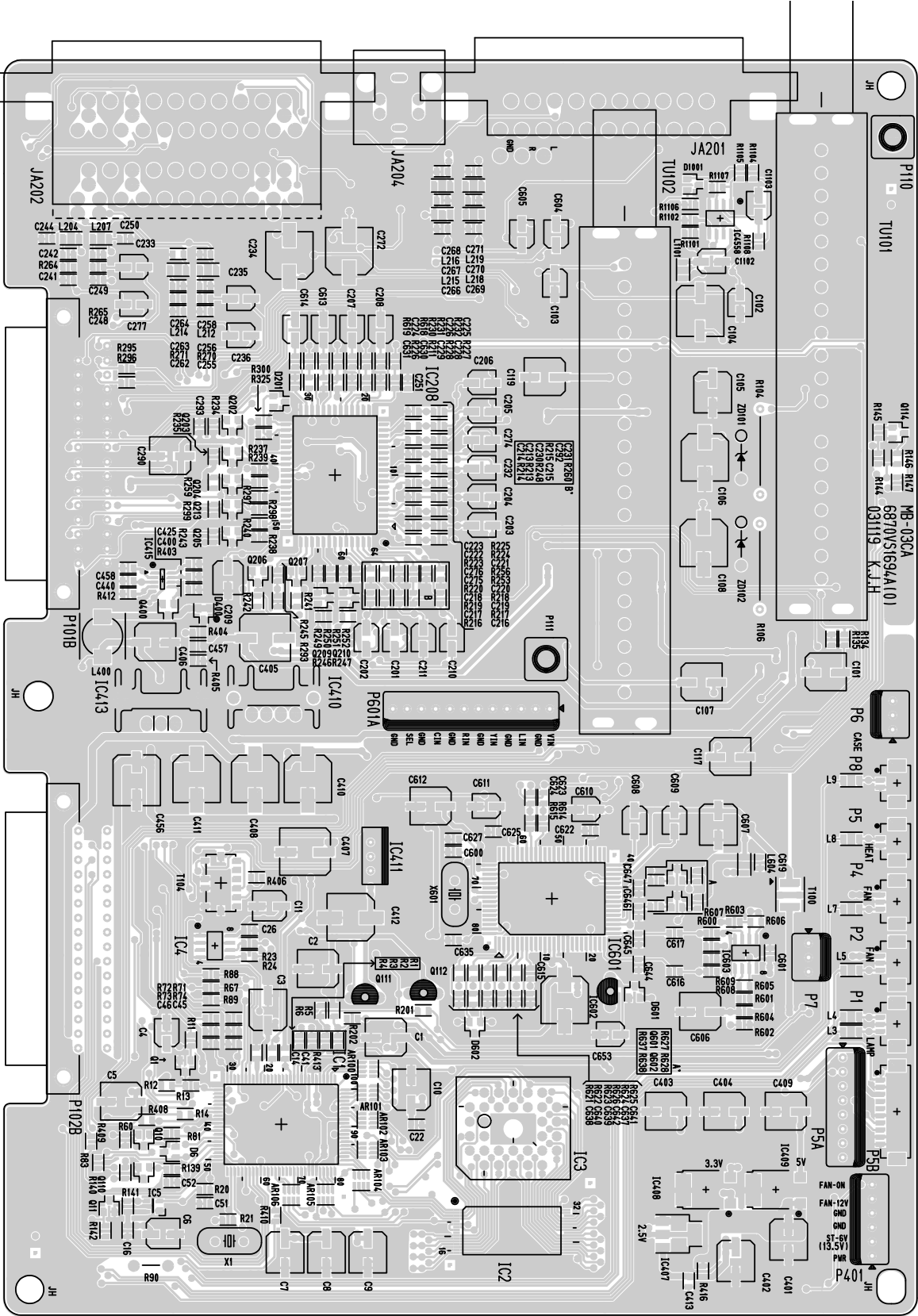
COMPONENT(TOP)



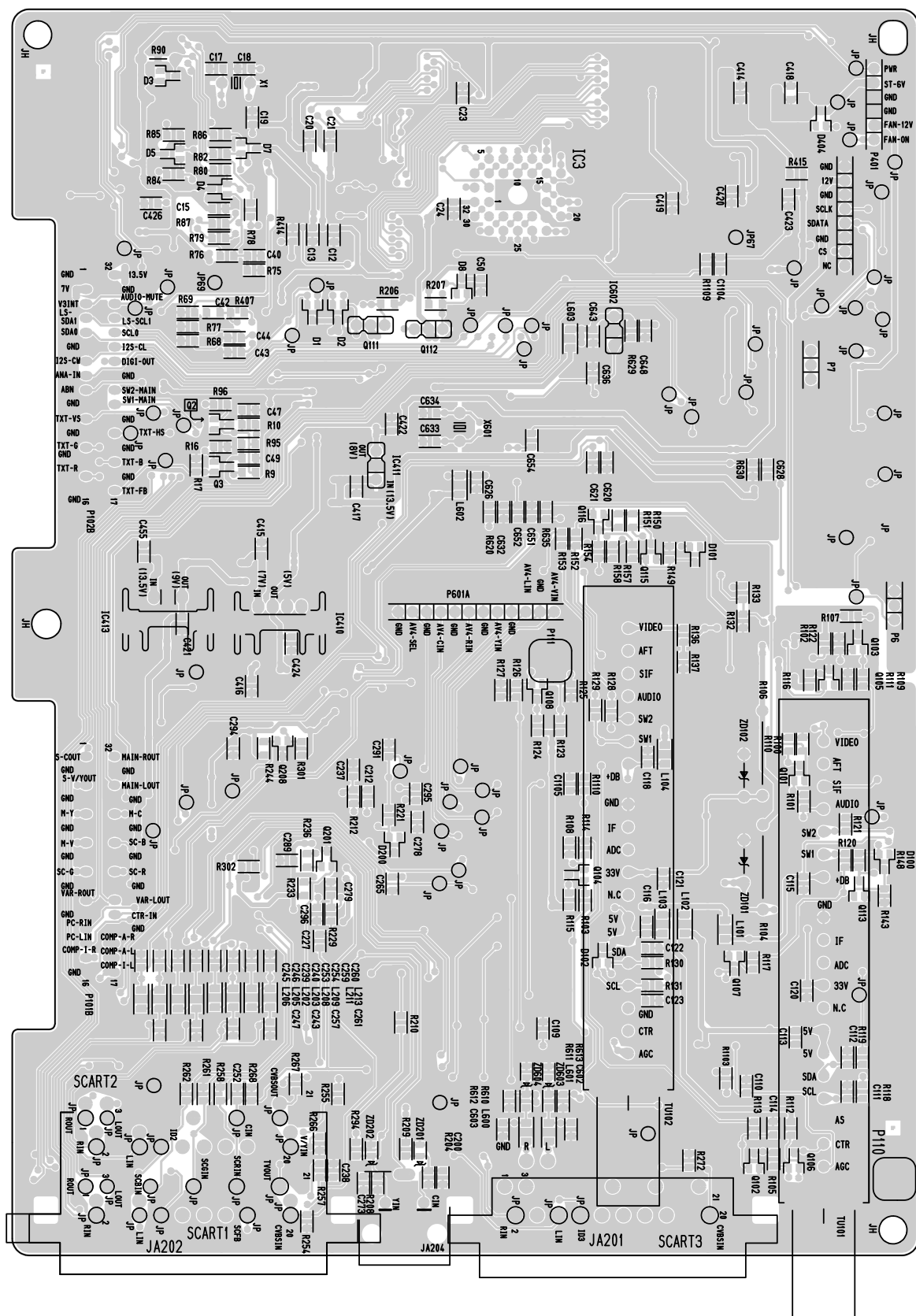
COMPONENT(BOTTOM)



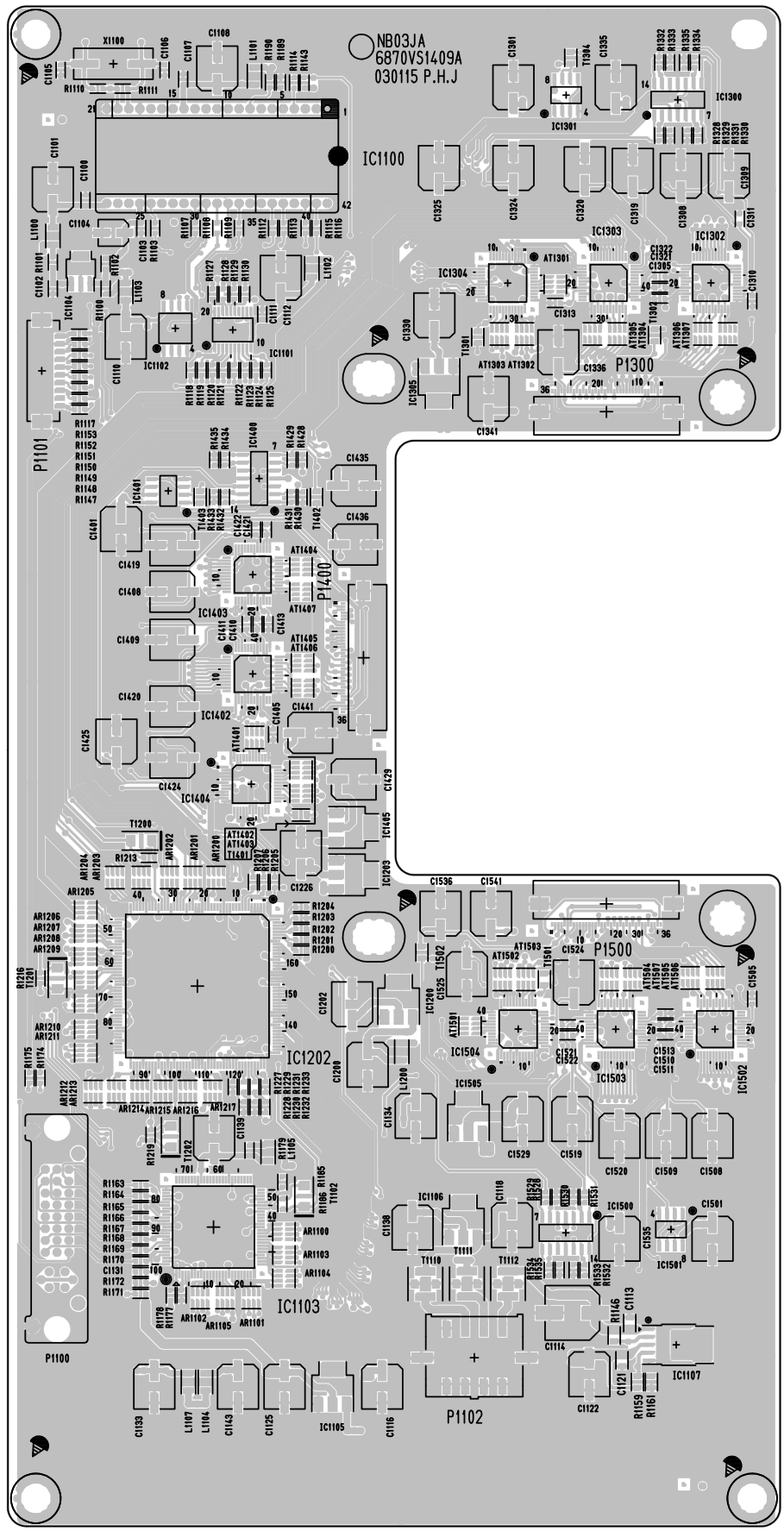
TUNER



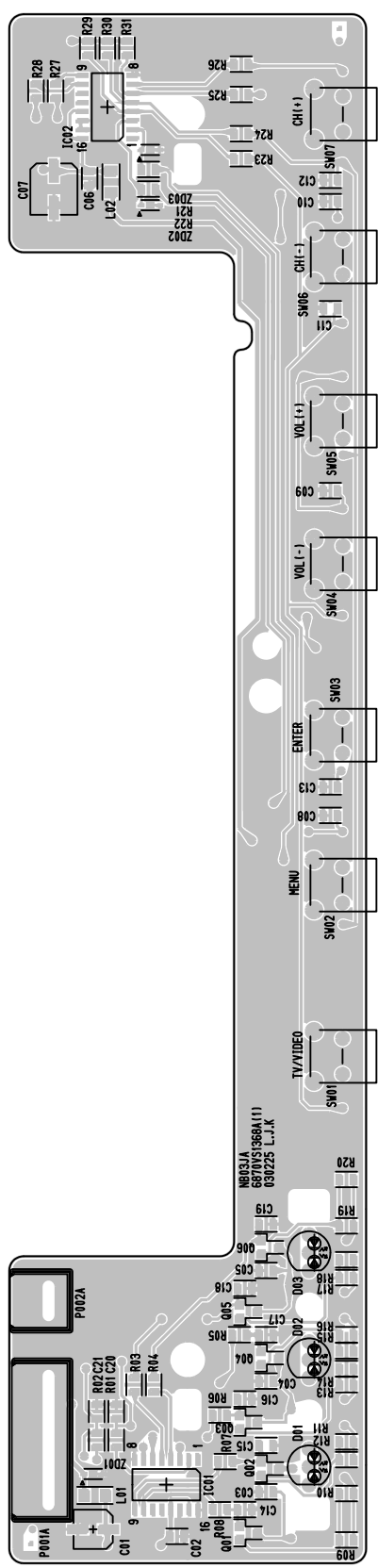
TUNER(BOTTOM)



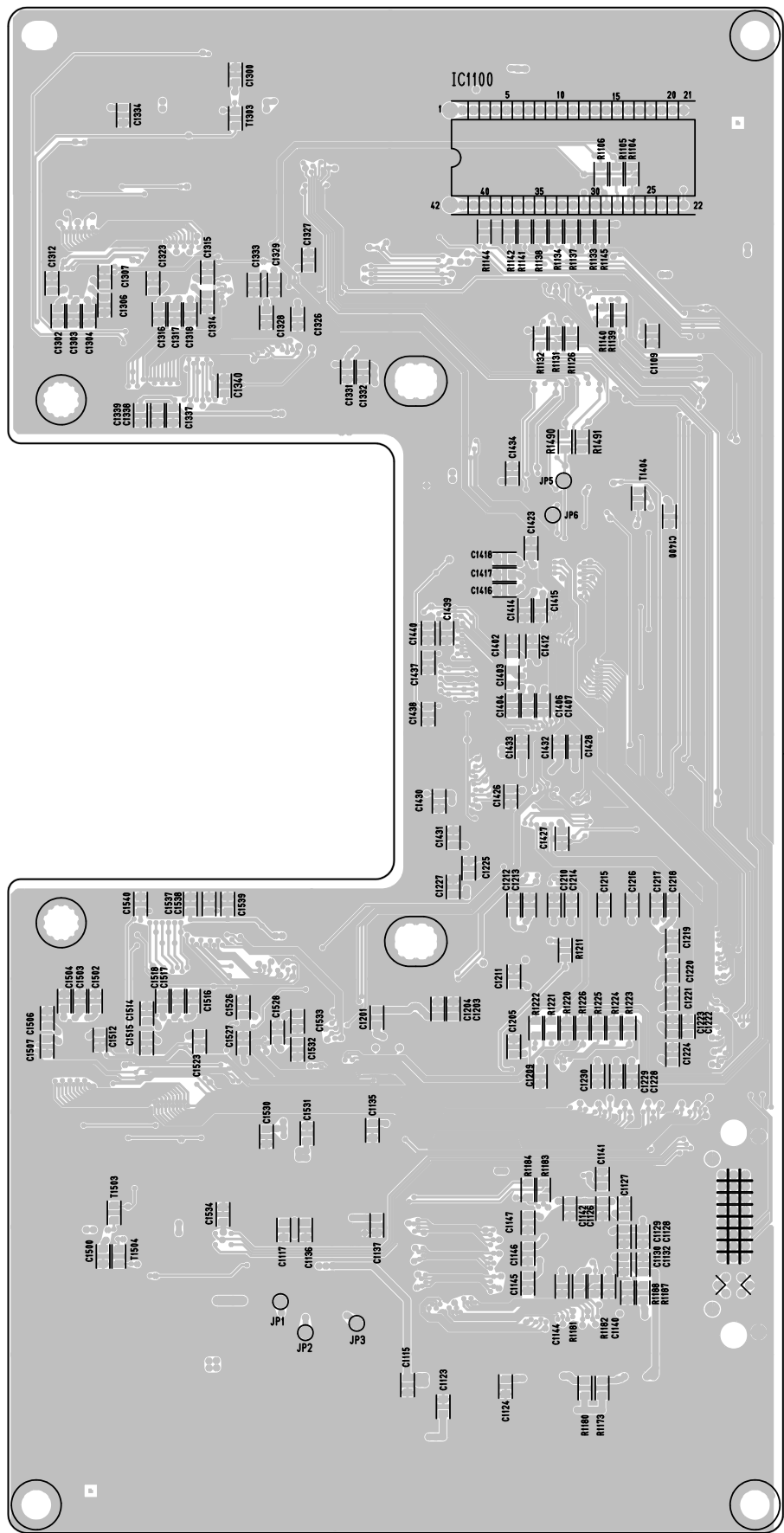
DRIVER(TOP)



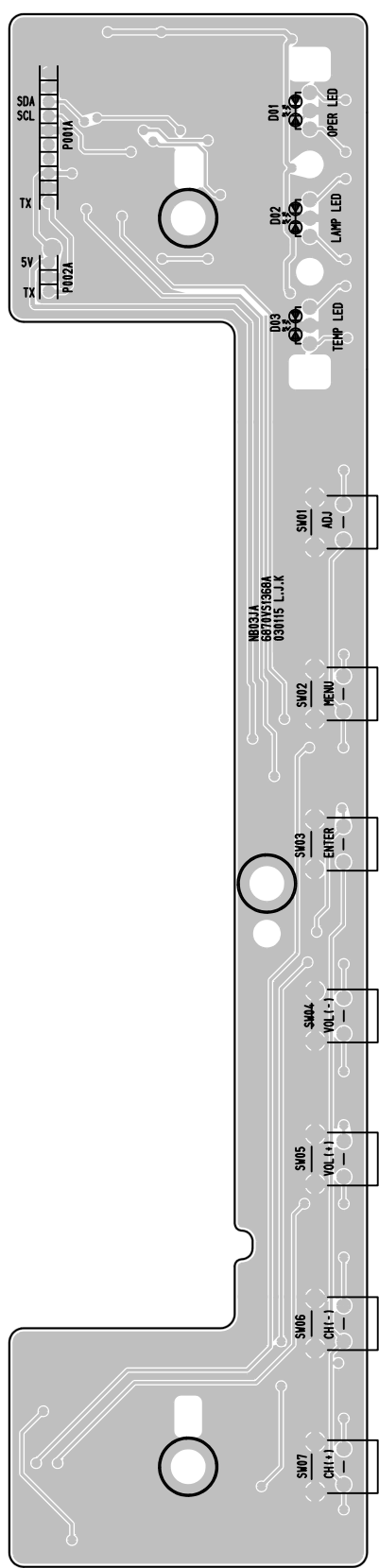
CONTROL(TOP)



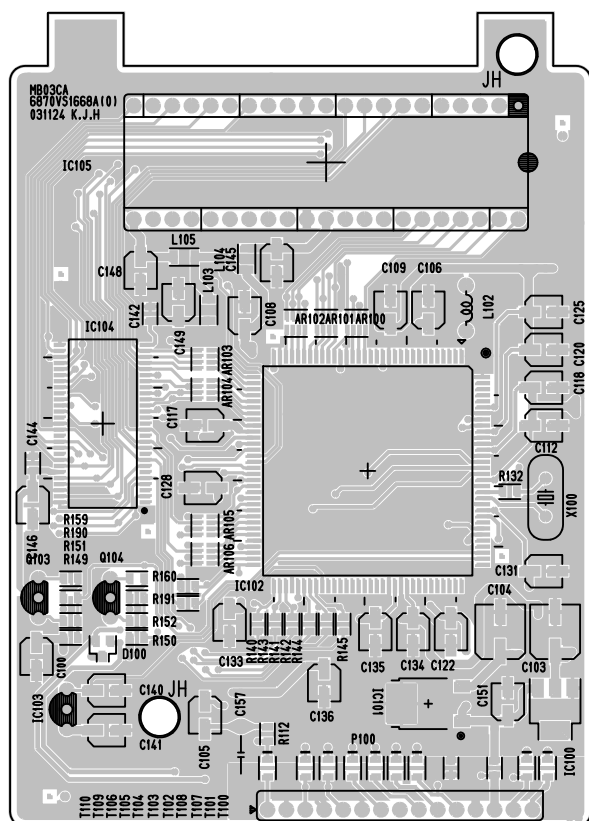
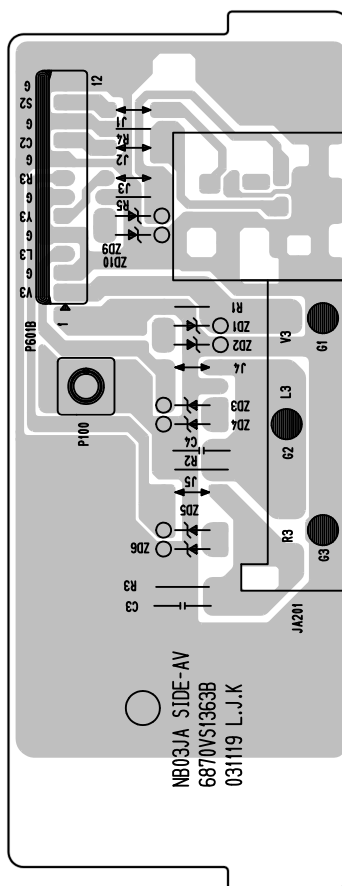
DRIVER(BOTTOM)



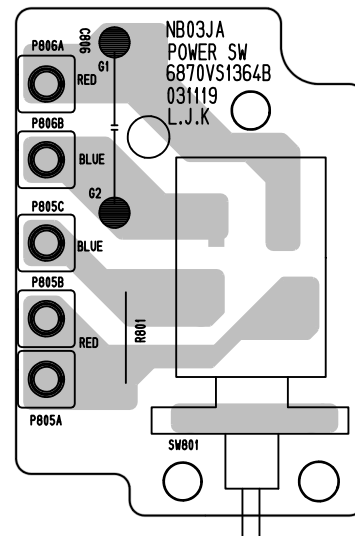
CONTROL(BOTTOM)



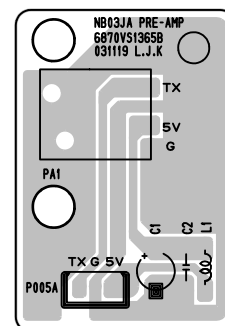
MICOM(TOP)

**SIDE A/V**

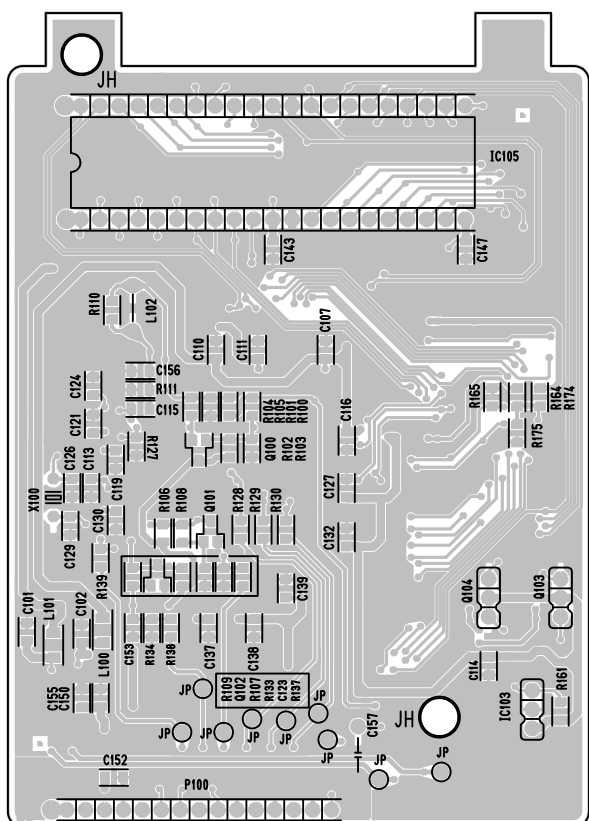
POWER S/W



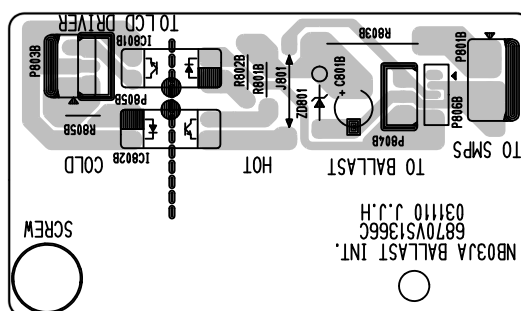
PRE-AMP



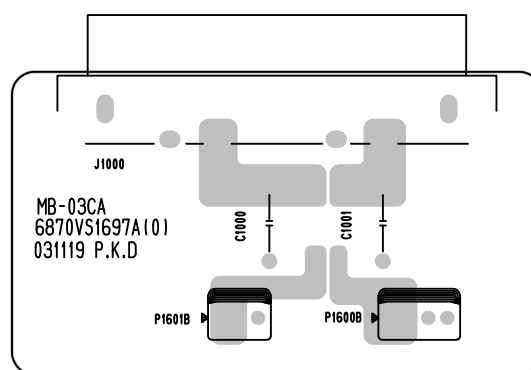
MICOM(BOTTOM)



BALLAST



SPEAKER



MEMO

This exploded perspective view illustrates the assembly of a computer system. The components are labeled with callouts as follows:

- 400, 401, 410:** Top panel and associated mounting hardware.
- 420:** Front panel or bezel.
- 430:** Side panel or bezel.
- 402, 403, 580:** Internal components and mounting hardware.
- 600:** Internal component, possibly a power supply or fan.
- 503, 660:** Motherboard and associated components.
- 530:** Keyboard.
- 540, 550, 520, 501, 650:** Mouse and its mounting hardware.
- 214, 215, 217, 570, 213, 216, 211, 210, 202, 200, 201:** Various internal components, including drives and connectors.
- 174:** Cable.
- 560, 590:** Mounting hardware.
- 640, 219:** Mounting hardware.
- 218:** Mounting hardware.
- 300, 610, 330, 306:** Front panel assembly with buttons and indicators.
- 304, 301, 302:** Front panel bezel and mounting hardware.
- 305:** Bottom panel or base.

EXPLODED VIEW PARTS LIST

No.	Part No.	Description
174	174-322E	POWER CORD, POWER W/FILTER L=400(179B)
200	6912V00006B	LAMP,HIGH PRESSURE MECURY UHP100W 1.3 PHILIPS 100V 1A RN48SZ40H CABLE 160MM,130MM
201	4810V00710A	BRACKET, NON RN-48SZ40 NON NON LAMP
202	4980V00620A	SUPPORTER, NON AL LAMP COVER RN-48SZ40H
210	3680V00067A	LENS, RICOH OPTICAL ENGINE RN-48SZ40 .
211	5900V11001D	FAN,DC B1232S12B2-LG DONGYANG 120*120*30 12V 950+-10 RPM 8-14V 300MM
212	5900V09005A	FAN,DC G9225S12B2-RG DONGYANG 92*92*25 12V/140MA 1650+-10 RPM 8-14V 600MM
213	4810V00717A	BRACKET, SUPPORTER RN-48SZ40 NB03JA ABS, AF-303S FAN
	4810V00717B	BRACKET, SUPPORTER RN-48SZ50H NB03JA ABS, AF-303S FAN
214	3550V00281A	COVER, NON RN-48SZ40 ABS, AF-303S INLET FAN
	3550V00281B	COVER, NON RN-48SZ50H ABS, AF-303S INLET FAN
215	4850V00012M	CUSHION, FILTER 109*109*2 POLYURETHAN RN-48SZ40
216	6913V00002B	BALLAST, EUC-100L/100V PHILIPS RN48SZ40H FOR LAMP CABLE 280MM
217	4810V00718B	BRACKET, NON RN-48SZ40H NB03JA PP LAMP HOUSE
218	4980V00671A	SUPPORTER, SMPS SECC RN-48SZ40 SMPS CHASSIS
219	3210V00166A	FRAME, HIPS 40AF RN-48SZ40 MAIN CHASSIS
220	4810V00714A	BRACKET, DUCT RN-48SZ40 NB03JA ABS, AF-303S COMBO GUIDE
300	3091V00475A	CABINET ASSEMBLY, RN-48SZ40 STEREO NB03JA MIDDLE
	3091V00475B	CABINET ASSEMBLY, RZ-48SZ41RB NON MB03CA 3090V00413(PEARL WHITE)
301	3211V00107B	FRAME ASSEMBLY, ASSY RZ-48SZ40RB TOTAL
	3211V00107C	FRAME ASSEMBLY, FRONT RZ-48SZ41RB TOTAL
302	3508V00399B	DECORATION, FRONT ACRYL MIRROR HALF RZ-48SZ40RB
	3508V00399C	DECORATION, FRONT ACRYL MIRROR HALF RZ-48SZ41RB
304	3351V00006A	SCREEN ASSEMBLY, TOPPAN NON RN-48SZ40H 1094*617*3.15 GAIN 4.7
	3351V00015A	SCREEN ASSEMBLY, DNP NON RN-48SZ40H 1094*617
305	3790V00702B	FILTER(MECH), RZ-48SZ40RB LG LOGO
	3790V00702C	FILTER(MECH), RZ-48SZ41RB LG LOGO-BACK COLOR METAL SILVER
306	3720V00237C	PANEL,ASSY RZ-48SZ40RB VFD 16ML09HA1 MD PJT
310	5020V00751A	BUTTON, CONTROL RN-48SZ40 ABS, HF-380 7KEY
	5020V00751B	BUTTON, CONTROL RZ-48SZ41RB ABS, HF-380 7KEY WHITE
330	5020V00655A	BUTTON, POWER RN-52SZ10H ABS 1 KEY SET
	5020V00655D	BUTTON, POWER RZ-48SZ41RB ABS, HF-380 1KEY WHITE
400	3809V00324E	BACK COVER ASSEMBLY, RZ-48SZ40RB NON UPPER
	3809V00324F	BACK COVER ASSEMBLY, RZ-48SZ41RB NON 3808V00340(PEARL WHITE)
402	3550V00278C	COVER, LAMP RZ-48SZ40RB ABS, AF-303S SIDE
	3550V00278D	COVER, LAMP RZ-48SZ41RB ABS, AF-303S SIDE
403	3110V00257A	CASE, NON RN48SZ40H PC-ABS LAMP DUCT
410	3809V00325C	BACK COVER ASSEMBLY, RZ-48SZ40RB NON LOWER
	3809V00325G	BACK COVER ASSEMBLY, RZ-48SZ41RB NON LOWER
420	3550V00277A	COVER,MIDDLE RN-48SZ40 ABS, AF-303S DUST
430	5018V00054A	MIRROR,LCD SSC(SAMSUNG CORNING) NON LCD48 MIRROR.
501	3210V00165B	FRAME,FRAME ABS, AF-303S RN-48SZ40H MAIN CHASSIS
503	4810V00935A	BRACKET, AV RN-48SZ40RB MB03CA ABS, AF-303S BORAD TERMINAL
520	6871VMMR04A	PWB(PCB) ASSEMBLY,MAIN MB-03CA RZ-48SZ40RB
530	6871VSMX90A	PWB(PCB) ASSEMBLY,SUB DIGITAL MB03CA RZ-48SZ40RB
540	6871VSMX91A	PWB(PCB) ASSEMBLY,SUB MB03CA COMPONENT M/I
550	6871VSMX92A	PWB(PCB) ASSEMBLY,SUB TUNER MB03CA RZ-48SZ40RB M/I
560	6871VPM38A	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA AC IN RZ-48SZ40RB
570	6871VSMX89A	PWB(PCB) ASSEMBLY,SUB MB03CA RZ-48SZ40RB DRIVER MAIN ASSY
580	6871VSME03C	PWB(PCB) ASSEMBLY,SUB S/W MB03CA RZ-48SZ40RB CASE S/W
590	6871VSME01A	PWB(PCB) ASSEMBLY,SUB NB03JA CONTROL RN-48SZ40H
600	6871VSNA02A	PWB(PCB) ASSEMBLY,SUB MB03CA RZ-48SZ40RB SIDE A/V
610	6871VSN222B	PWB(PCB) ASSEMBLY,SUB PSW MB03CA RZ-48SZ40RB POWER S/W
620	6871VSME02C	PWB(PCB) ASSEMBLY,SUB INTER MB03CA RZ-48SZ40RB BALLAST INT
630	6871VSN221C	PWB(PCB) ASSEMBLY,SUB P/AMP MB03CA RZ-48SZ40RB PRE-AMP
640	6871VPM36A	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA RZ-48SZ40RB SMPS M/I ASSY
650	6871VSMY11A	PWB(PCB) ASSEMBLY,SUB TXT MB03CA RZ-48SZ40RB TXT2000
660	6871VSNA01A	PWB(PCB) ASSEMBLY,SUB SPK MB03CA SUB PCB ASSY

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
IC					
IC01	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP	IC301	0ICTMLG003C	LGDT1502M LG IC 304P QFP
IC02	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP	IC302	0IT1740000Q	SN74LVC00AD 14SOP R/TP LOGIC D-TV
IC1	0ISM555000A	SDA5550 MQFP100 BK MICOM TXT MC006A	IC303	0IT1740000Q	SN74LVC00AD 14SOP R/TP LOGIC D-TV
IC100	0IPRPFA007A	RC1117S25T FAIRCHILD SOT-223 R/TP 2.5VOLT	IC304	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P TSOP
IC101	0IMCRAD002A	AD9883AKST-110 ANALOG DEVICE 80P TQFP	IC305	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P TSOP
IC101	0IMCRKE008A	KIA78D33F KEC 3P DPAK R/TP 3.3V LDO	IC306	0IIC271600A	MK2716STR 8P,SOP TP
IC102	0IIT323000E	VPC3230D C5 80P QFP	IC320	0IPH741400E	74HC14D 14SOP TP SHITTER TRIGGER
IC102	0IMCRMN023A	SDA6001 QH B12 MICRONAS 128P MQFP	IC4	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P SOIC
IC103	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007	IC401	0ICTMMI038B	COPY M306V3FGFP MITSUBISHI 100P QFP
IC103	0IMCRXL003A	XC95144XL-10TQ100C 3.3V XILINX TQFP 100P	IC401	0ISH052100C	PQ05RD21 4SIP ST
IC104	0IIT323000E	VPC3230D C5 80P QFP	IC402	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC104	0IMMRHY001F	HY57V641620HGT-H HYNIX 54P TSOPII	IC403	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
IC105	0IMMRSG028A	M27V160 STM 42P PDIP ST 16MBIT OTP EEPROM	IC403	0IMCRKE006B	KIA278R33PI KEC TO-220IS 4P ST 3.3V
IC105	0IFA741230A	DM74LS123MX 16SOP TP	IC404	0IMCRTI019A	TFP410 TEXAS INSTRUMENT 64P TQFP
IC1101	0IMI623520B	M62352GP 20P SSOP TP	IC404	0ISH052100C	PQ05RD21 4SIP ST -
IC1102	0IAL242561B	AT24C256W-10SI-2.7V 8P SOIC ST EEPROM 2.7V-5V	IC405	0IMP242560A	24LC256-I/SM 8P,SOP TP 256K
IC1103	0IPRPTI001A	TFP401PZP TEXAS INSTRUMENT 100,TQFP	IC406	0IKE780500Q	KIA7805API 3P TO-220 ST 5V(=KIA7805PI)
IC1104	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR	IC407	0IPRPFA007A	RC1117S25T FAIRCHILD SOT-223 R/TP 2.5VOLT
IC1105	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223 R/TP 3.3VOLT	IC407	0IPH741400E	74HC14D 14SOP TP SHITTER TRIGGER
IC1106	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223 R/TP 3.3VOLT	IC408	0IMCRKE008A	KIA78D33F KEC 3P DPAK R/TP 3.3V LDO
IC1107	0IPRPSH001A	PQ20WZ1U SHARP 5P SC63	IC409	0IMCRFA015A	KA7805R FAIRCHILD 2P D-PAK R/TP 500MA IC
IC120	0ISJ111733A	EZ1117CST-3.3 3P,SOT-223 TP 3.3V	IC410	0ISH052100C	PQ05RD21 4SIP ST -
IC1200	0IMCRSO008A	CXA2151Q SONY 48P QFP TRAY 60LCD	IC411	0IKE780800J	KIA7808API 3 ST .
IC1200	0IPRPFA007A	RC1117S25T FAIRCHILD SOT-223 R/TP 2.5VOLT	IC412	0IKE780900M	KIA7809API TO220 ST 3P 9V
IC1202	0IMCRSB010A	L3E07050K0A SEIKO EPSON 176QFP	IC413	0IKE780900M	KIA7809API TO220 ST 3P 9V
IC1202	0IMO744053B	MC74HC4053DW 16SOP 3*2CH.MUX	IC414	0ISH302122A	PQ30RV21 TO-220
IC1203	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223 R/TP 3.3VOLT	IC415	0ITK118100B	TK11840L 8P SOT23L
IC1300	0IMO324000C	LM324D SO-14 TP OP AMP	IC4558	0ISS455880A	KA4558D 8SOP OP AMP
IC1301	0IMCRET001A	EL2244CS-T13 ELANTEC 8P	IC5	0IMX811000A	MAX811REUT-T 128QFP BK RESET DI-32Q82
IC1302	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC601	0IMCRMN001C	MSP3411G QA B8 V3 MICRONAS 80P QFP
IC1303	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC602	0IFA753307A	KA75330ZTA(KA7533ZTA) 3P,TO-92 TP 3.3V
IC1304	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	IC603	0ISS455880A	KA4558D 8SOP OP AMP
IC1305	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223 R/TP 3.3VOLT	IC801B	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1400	0IMO324000C	LM324D SO-14 TP OP AMP	IC802B	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1401	0IMCRET001A	EL2244CS-T13 ELANTEC 8P SO	IC811	0IMCRON002A	MC33262P ON SEMI 8P DIP ST
IC1402	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC820	0ISK666813A	STR-F6668B(LF1352) 5PIN BK STR FD-60X3R
IC1403	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	IC831	0ISK615311B	STR-G6153T(LF1101) 5PIN BK STR
IC1404	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	IC832	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1405	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC841	0ISH817300B	PC817XF3 4D PHOTO COUPLER
IC1500	0IMO324000C	LM324D SO-14 TP OP AMP	IC845	0ISS781200H	KA78R12 4P,TO-220F BK LOW DROP 12V
IC1501	0IMCRET001A	EL2244CS-T13 ELANTEC 8P SO	IC851	0IMO257633A	LM2576TV-3.3 5PIN ST
IC1502	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	Q111	0IFA270000A	2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
IC1503	0IMCRSB009A	L3E06070D0A SEIKO EPSON 48QFP	Q112	0IFA270000A	2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
IC1504	0IMCRSB008A	L3E01031F0A SEIKO EPSON 48QFP	TRANSISTOR		
IC1505	0IPRPFA006A	RC1117S33T FAIRCHILD SOT-223	IC202	0TR830009BA	BSS83 TP
IC1601	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP	IC203	0TR830009BA	BSS83 TP
IC1602	0IKE780500Q	KIA7805API 3P TO-220 ST 5V(=KIA7805PI)	Q01	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC1603	0ISA722200A	LA7222 (1280 AUDIO)	Q02	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC208	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W	Q03	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC3	0IZZVA0070C	M27W201 32PIN ST EPROM+LABE	Q04	0TR387500AA	CHIP 2SC3875S(ALY) KEC
IC3	0IZZVA0070L	M27W201 DIP 32P ST EEPROM+LABEL	Q05	0TR387500AA	CHIP 2SC3875S(ALY) KEC
			Q06	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q1	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q10	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q100	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	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
Q105	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) 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
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) KEC TP TO92 50V 100MA
Q1212	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1213	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1214	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1215	0TR387500AA	CHIP 2SC3875S(ALY) 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) KEC TP TO92 50V 100MA
Q1223	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1230	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q1232	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q1235	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1236	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1237	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
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 SAMSUNG TP TO92 50V 150MA
Q842	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
Q851	0TR945009AA	KSC945C-Y SAMSUNG TP TO92 50V 150MA
DIODE		
D01	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN -
D02	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN -
D03	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN -
D1	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D100	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1001	0DD226239AA	CHIP KDS226 SOT-23
D102	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1200	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D1201	0DD181009AB	KDS181 TP KEC - 85V - 300MA
D1202	0DD181009AB	KDS181 TP KEC - 85V - 300MA
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	SR3411(DL-11S2RN1) BK RED -
D4	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP

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
D400	0DD226239AA	CHIP KDS226 SOT-23
D400	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D401	0DD226239AA	CHIP KDS226 SOT-23
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
D404	0DD414809ED	1N4148 TP GRANDE
D404	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D405	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D405	0DD226239AA	CHIP KDS226 SOT-23
D406	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D406	0DD226239AA	CHIP KDS226 SOT-23
D410	0DRSE00038A	SDC15 TVS R/TP SOT23 12.8V 10A .A .SEC 100NA
D411	0DRSE00038A	SDC15 TVS R/TP SOT23 12.8V 10A .A .SEC 100NA
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
D871	0DD120000BB	FML-G12S
D881	0DD100009AP	EG1ZV(1) TP SANKEN TP SANKEN
Q810	0DR260001AA	FMG-26S ST TO220 600V 6A 50A 100NSEC 0.005A
ZD01	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD02	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD03	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
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

LOCA. NO	PART NO	DESCRIPTION
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
C1	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C10	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C100	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1000	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C1001	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C101	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C103	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C104	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C104	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C104	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C105	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C105	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C106	0CE106VF6DC	10UF 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	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C108	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C109	0CE106VF6DC	10UF MV 16V 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
C1102	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1103	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1103	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
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
C112	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
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

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LOCA. NO	PART NO	DESCRIPTION
C114	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1143	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C117	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C117	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C118	0CE106VF6DC	10UF MV 16V 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
C120	0CE106VF6DC	10UF MV 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
C122	0CE106VF6DC	10UF 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
C1246	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C125	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C125	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
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
C128	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
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
C131	0CE106VF6DC	10UF MV 16V 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
C133	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
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
C134	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1341	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C135	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C136	0CK823DK56A	82000PF 2012 50V 10% R/TP X7R
C136	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C139	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C140	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
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
C141	0CE106VF6DC	10UF MV 16V 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
C145	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C146	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C147	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C148	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C148	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C149	0CE106VF6DC	10UF MV 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
C151	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C1510	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
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

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
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	0.0068UF D 100V 10% PE TP5
C1613	0CQ6821N509	0.0068UF D 100V 10% PE TP5
C1614	0CE226DF618	22UF STD 16V M FL TP5
C1615	0CE108DF618	1000UF STD 16V M FL TP5
C1616	0CQ1041N509	0.1UF D 100V 10% PE TP5
C1618	0CQ1041N509	0.1UF D 100V 10% PE TP5
C1620	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C1621	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C1624	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1626	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1627	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1629	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
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
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

LOCA. NO	PART NO	DESCRIPTION
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	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C212	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
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)
C221	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C224	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C224	0CE476SF6DC	47UF MVG 16V M SMD R/TP
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
C233	0CE106VF6DC	10UF MV 16V 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
C272	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C274	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C277	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C284	0CE227BH618	220UF KME 25V M FL TP5
C290	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C3	0CE476VF6DC	47UF 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
C315	0CE107DF618	100UF STD 16V M FL TP5
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
C372	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C4	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C401	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD

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LOCA. NO	PART NO	DESCRIPTION
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
C8	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C801	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)

LOCA. NO	PART NO	DESCRIPTION
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 J
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
C824	0CE107BK618	100UF KME 50V M FL TP5
C825	0CE476BK618	47UF KME 50V M FL TP5
C829	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C831	181-035N	470 PF 250V 10% TA52
C833	0CE226BK618	22UF 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
COIL & TRANSFORMER		
L01	0LC3332101A	INDUCTOR,33UH 10% 3216 R/TC FI-D3216-333KJT
L02	0LC3332101A	INDUCTOR,33UH 10% 3216 R/TC FI-D3216-333KJT
L1	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L100	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L101	0LC0233002A	INDUCTOR,3.3UH R/TP

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

LOCA. NO	PART NO	DESCRIPTION
L101	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L101	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L102	0LA0821K119	INDUCTOR,8.2UH K 2.3*3.4 TP
L102	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L102	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L103	0LC0233002A	INDUCTOR,3.3UH R/TP
L103	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L103	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L104	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L104	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L105	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L106	0LC0233002A	INDUCTOR,3.3UH R/TP
L107	0LC2220101A	INDUCTOR,2.2UH 10% 2012 R/TC FI-B2012-222KJT
L108	0LC2220101A	INDUCTOR,2.2UH 10% 2012 R/TC FI-B2012-222KJT
L109	0LC2220101A	INDUCTOR,2.2UH 10% 2012 R/TC FI-B2012-222KJT
L110	0LC6832101A	INDUCTOR,6.8UH 10% 3216 R/TC FI-C3216-682KJT
L1100	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1101	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1101	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L1102	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1103	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1104	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1105	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1107	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L111	0LC6832101A	INDUCTOR,6.8UH 10% 3216 R/TC FI-C3216-682KJT
L112	0LC6832101A	INDUCTOR,6.8UH 10% 3216 R/TC FI-C3216-682KJT
L113	0LC6832101A	INDUCTOR,6.8UH 10% 3216 R/TC FI-C3216-682KJT
L114	0LC6832101A	INDUCTOR,6.8UH 10% 3216 R/TC FI-C3216-682KJT
L117	0LC2220101A	INDUCTOR,2.2UH 10% 2012 R/TC FI-B2012-222KJT
L120	0LC0233002A	INDUCTOR,3.3UH R/TP
L1200	6140VB0003A	COIL,LQH31CN4R7M01L 4.7UH
L1200	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1201	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1202	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L1203	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1204	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1205	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L1206	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1207	0LC2232101A	INDUCTOR,22UH 10% 3216 R/TC FI-D3216-223KJT
L1208	0LC3332101A	INDUCTOR,33UH 10% 3216 R/TC FI-D3216-333KJT
L121	0LC0233002A	INDUCTOR,3.3UH R/TP
L122	0LC0233002A	INDUCTOR,3.3UH R/TP
L202	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L202	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L203	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L204	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L205	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L206	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L207	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L208	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L209	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L211	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT

LOCA. NO	PART NO	DESCRIPTION
L212	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L213	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L214	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L215	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L216	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L218	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L219	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L3	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
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 R/TC FI-C3216-103KJT
L400	0LC6461201A	INDUCTOR,646CY-121M=P3 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 R/TC FI-C3216-103KJT
L6	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L602	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L603	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L604	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L7	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L8	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
L841	150-C02F	COIL,82UH PHY TURN
L851	150-C02F	COIL,82UH PHY TURN
L852	6170VZ0005A	TRANSFORMER,IRON-15 120UH LM2576,ND00GA
L853	150-C02F	COIL,82UH PHY TURN
L861	150-C02F	COIL,82UH PHY TURN
L871	150-C02F	COIL,82UH PHY TURN
L881	150-C02F	COIL,82UH PHY TURN
L9	0LC1032101A	INDUCTOR,10UH 10% 3216 R/TC FI-C3216-103KJT
T801	6170VMCA03D	TRANSFORMER,EER4942 1200UH STR-F6669
T810	6170VMCA37B	TRANSFORMER,3535 310UH MC33262
T830	6170VS0001B	TRANSFORMER,1927 2200UH BULK,
CONNECTOR		
JA1200	6630VGA001B	68114-1522 MOLEX-KOR 15PIN 2.29MM ANGLE SN
P101A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)
P102A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)
P103A	6932V25004A	36512-0098 MALE MOLEX 48 2.54 D-TV(DIN 41612)
P1300	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P1400	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P1500	6630VZS001C	54104-3692 MOLEX 36PIN .MM ANGLE
P201A	6932V25004A	36512-0098 48 2.54 D-TV(DIN 41612)
P202A	6932V25004A	36512-0098 48 2.54 D-TV(DIN 41612)
P404	6630VGA004A	36512-0098 48 2.54 D-TV(DIN 41612)
RESISTOR		
AR100	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR100	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP
AR101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
AR101	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R4	ORD0752F609	75 OHM 1/6 W 5.00% TA52
AR102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R402	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
AR102	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R409	0RN3302F409	33K OHM 1/6 W 1.00% TA52
AR103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R425	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
AR103	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R426	ORD0102F609	10 OHM 1/6 W 5% TA52
AR104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R5	ORD0752F609	75 OHM 1/6 W 5.00% TA52
AR104	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R801	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
AR105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R801B	ORD1801F609	1.8K OHM 1/6 W 5.00% TA52
AR105	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R802B	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
AR106	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R803	0RN3903F409	390K 1/6W 1% TA52
AR106	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP	R803	0RN3903G409	390K OHM 1/4 W 1% TA52
AR1100	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R803B	ORD0562H609	56 OHM 1/2 W 5.00% TA52
AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R805	0RN3303G409	330K OHM 1/4 W 1.00% TA52
AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R805B	ORD3300F609	330 OHM 1/6 W 5.00% TA52
AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R806	0RN3903F409	390K 1/6W 1% TA52
AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R806	0RN3903G409	390K OHM 1/4 W 1% TA52
AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R807	0RN3903F409	390K 1/6W 1% TA52
AR1200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R807	0RN3903G409	390K OHM 1/4 W 1% TA52
AR1201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R808	ORD2402H609	24K OHM 1/2 W 5.00% TA52
AR1202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R809	ORD0302F609	30 OHM 1/6 W 5.00% TA52
AR1203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R810	ORD0562H609	56 OHM 1/2 W 5.00% TA52
AR1204	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R811	180-A01B	RW ROUND G 2W 0.11 K TA31(63)
AR1205	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R812	0RN3903F409	390K 1/6W 1% TA52
AR1206	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R813	0RN3903F409	390K 1/6W 1% TA52
AR1207	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R814	0RN3903F409	390K 1/6W 1% TA52
AR1208	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R815	ORD1203F609	120K OHM 1/6 W 5.00% TA52
AR1209	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R816	ORD2202F609	22K OHM 1/6 W 5% TA52
AR1210	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R817	ORD1202F609	12K OHM 1/6 W 5% TA52
AR1211	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R818	ORD2200F609	220 OHM 1/6 W 5.00% TA52
AR1212	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R819	0RN1002F409	10K OHM 1/6 W 1.00% TA52
AR1213	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R820	0RN1002F409	10K OHM 1/6 W 1.00% TA52
AR1214	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R821	180-A01M	0.22 OHM 2 W 5% TA62
AR1215	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R822	ORD1001F609	1K OHM 1/6 W 5% TA52
AR1216	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R823	ORD2701F609	2.7K OHM 1/6 W 5% TA52
AR1217	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R824	ORD0332H609	33 OHM 1/2 W 5.00% TA52
AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R825	ORD4701F609	4.7K OHM 1/6 W 5% TA52
AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R826	ORS2202K607	22K OHM 2 W 5.00% TA62
AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R827	ORS2202K607	22K OHM 2 W 5.00% TA62
AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R829	0RKZVTA001D	10M OHM 1/2 W 5% TA52
AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R831	ORS1203K607	120K OHM 2 W 5.00% TA62
AR306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24	R831	ORS8202K607	82K OHM 2 W 5.00% TA62
D812	ORD0302F609	30 OHM 1/6 W 5.00% TA52	R833	ORS0161K607	1.6 OHM 2 W 5.00% TA62
R1	ORD0752F609	75 OHM 1/6 W 5.00% TA52	R834	ORS1203K607	120K OHM 2 W 5.00% TA62
R104	ORD1000H609	100 OHM 1/2 W 5.00% TA52	R835	ORF0221H609	2.2 OHM 1/2 W 5.00% TA52
R106	ORD1000H609	100 OHM 1/2 W 5.00% TA52	R836	ORD5102F609	51K OHM 1/6 W 5.00% TA52
R1253	0RN1002F409	10K OHM 1/6 W 1.00% TA52	R840	ORD1601F609	1.6K OHM 1/6 W 5.00% TA52
R1606	ORF0331H609	3.3 OHM 1/2 W 5.00% TA52	R841	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R1609	ORF0331H609	3.3 OHM 1/2 W 5.00% TA52	R842	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R1615	ORS2201K607	2.2K OHM 2 W 5.00% TA62	R843	ORD2701F609	2.7K OHM 1/6 W 5% TA52
R1616	ORS2201K607	2.2K OHM 2 W 5.00% TA62	R844	ORD3601F609	3.6K OHM 1/6 W 5.00% TA52
R2	ORD4703F609	470K OHM 1/6 W 5.00% TA52	R845	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R3	ORD4703F609	470K OHM 1/6 W 5.00% TA52	R851	ORD2401F609	2.4K OHM 1/6 W 5.00% TA52

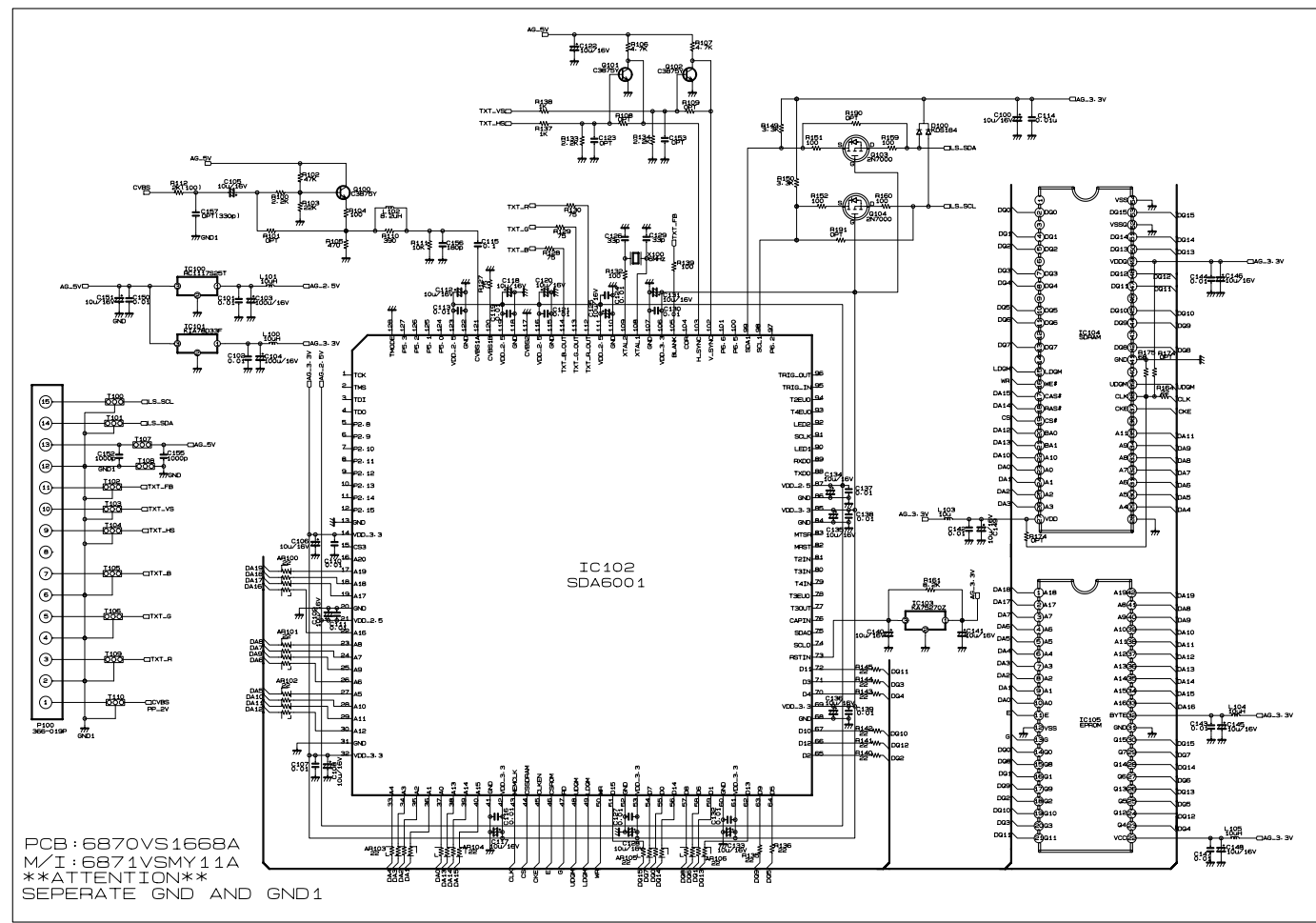
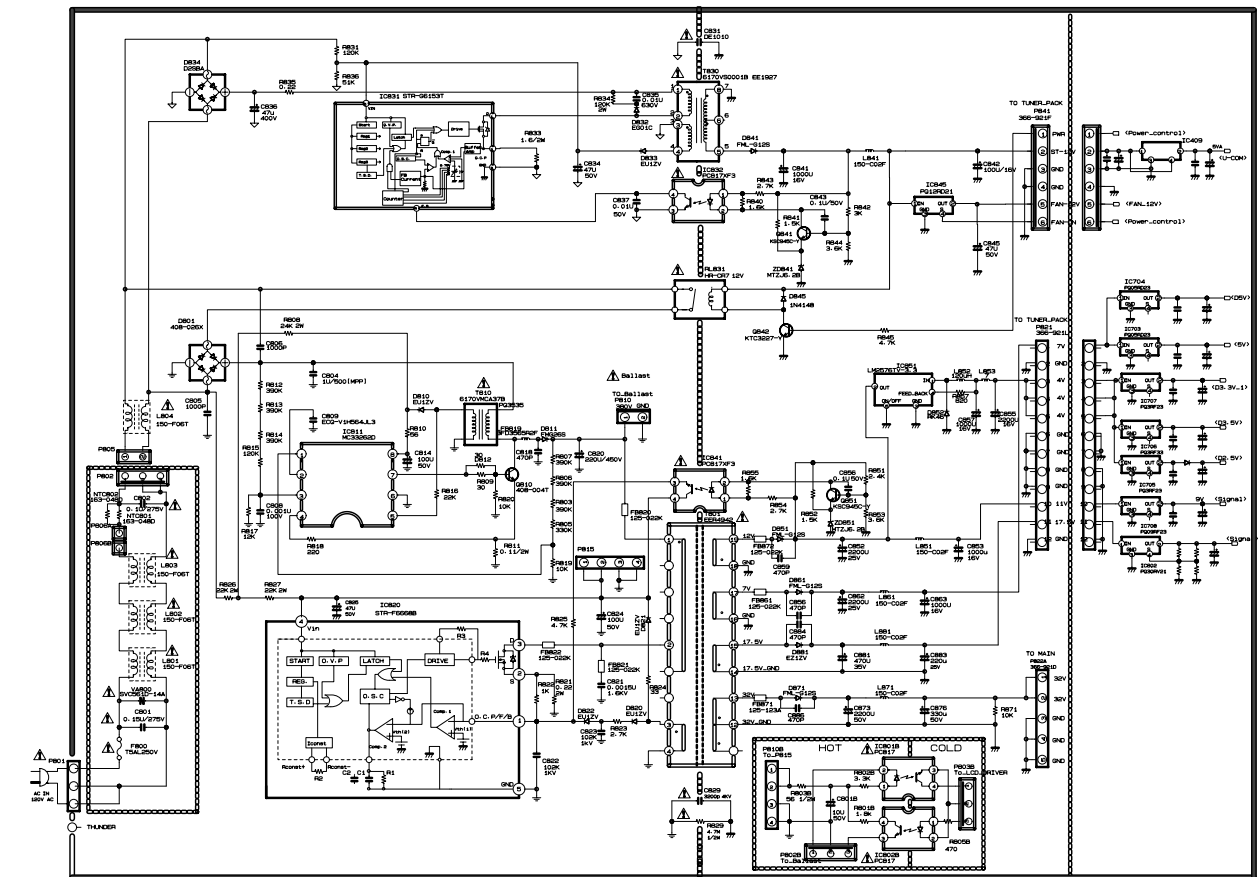
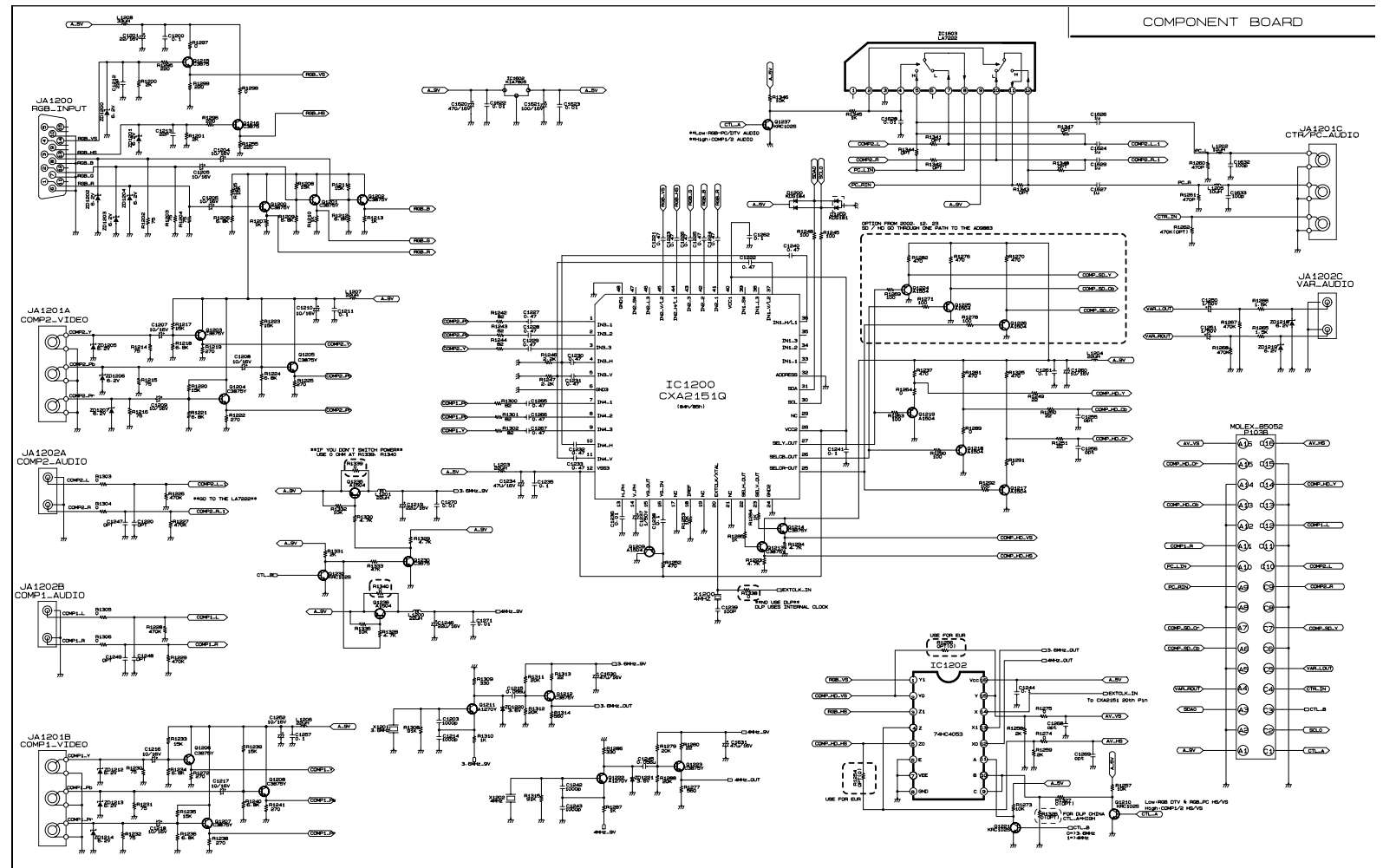
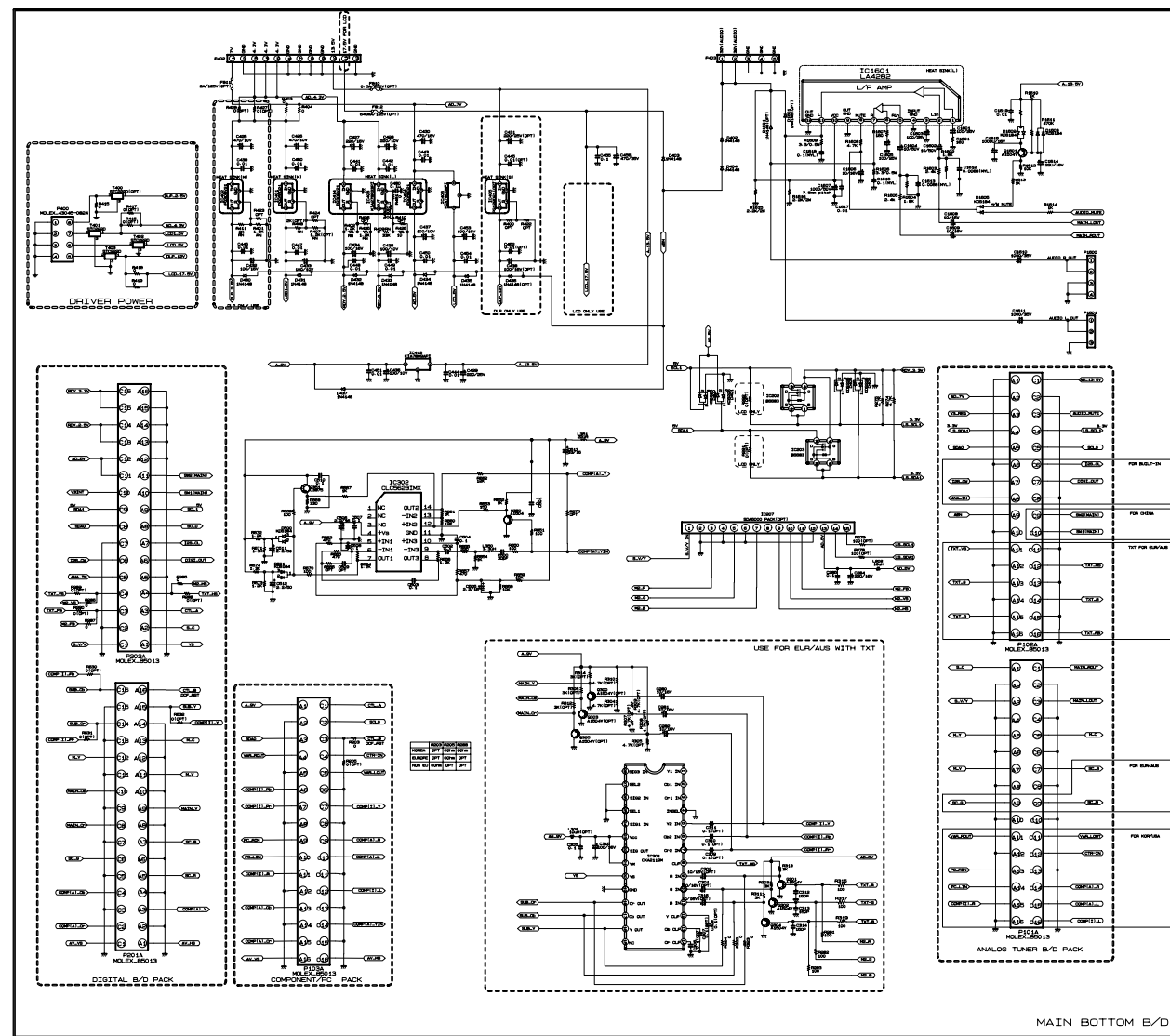
For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyester CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible
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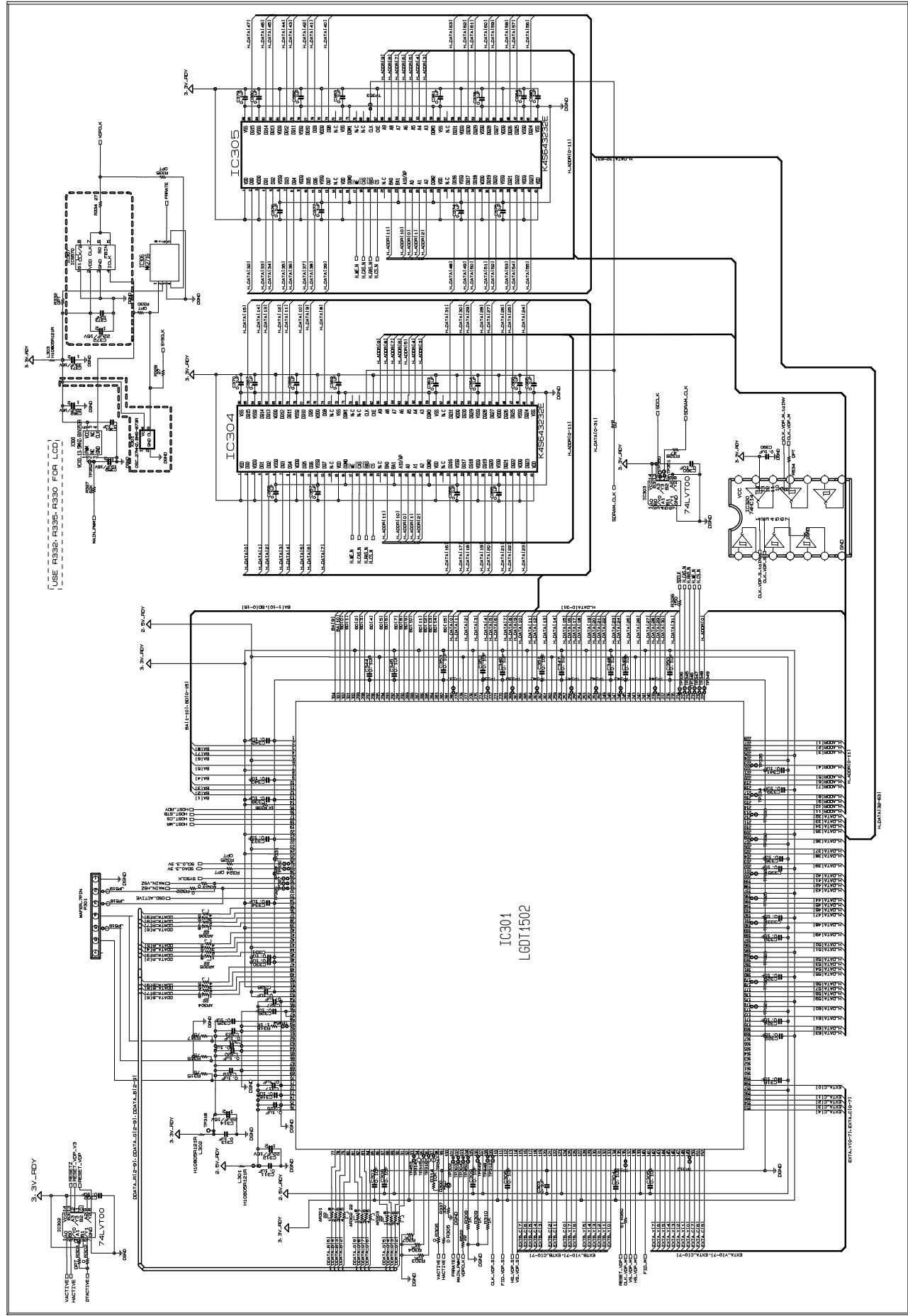
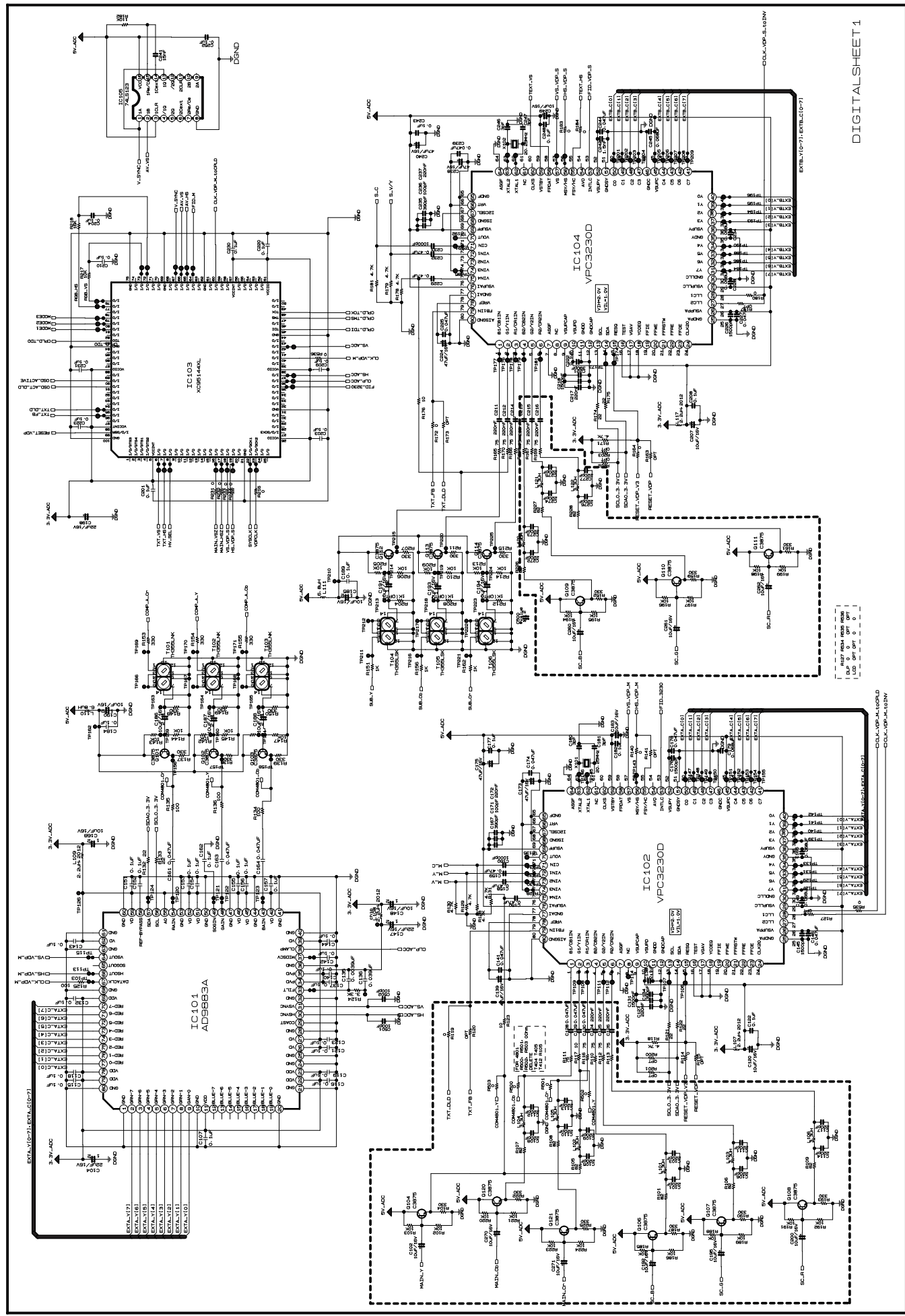
LOCA. NO	PART NO	DESCRIPTION
R852	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R853	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R854	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R855	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R857	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R871	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R90	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
FILTER & CRYSTAL		
AT1301	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1302	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1303	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1304	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1305	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1306	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1307	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1401	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1402	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1403	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1404	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1405	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1406	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1407	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1501	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1502	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1503	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1504	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1505	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1506	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
AT1507	0LCCE00018A	HB-4M3216-301JT R/TP 100MHZ 300OHM
F1000	6200VJS001B	ZJYS1R5-2PL(T) TDK R/TP 50VOLT 2A
FB819	125-123A	FERRITE BFD3565R2F(TAPING)
FB820	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM
FB821	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM
FB822	125-022K	FERRITE NON AXIAL 62MM 1UH NY 3.5X6.0MM
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
T100	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T100	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T101	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T102	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T103	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T104	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T105	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T106	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T107	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
T107	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA

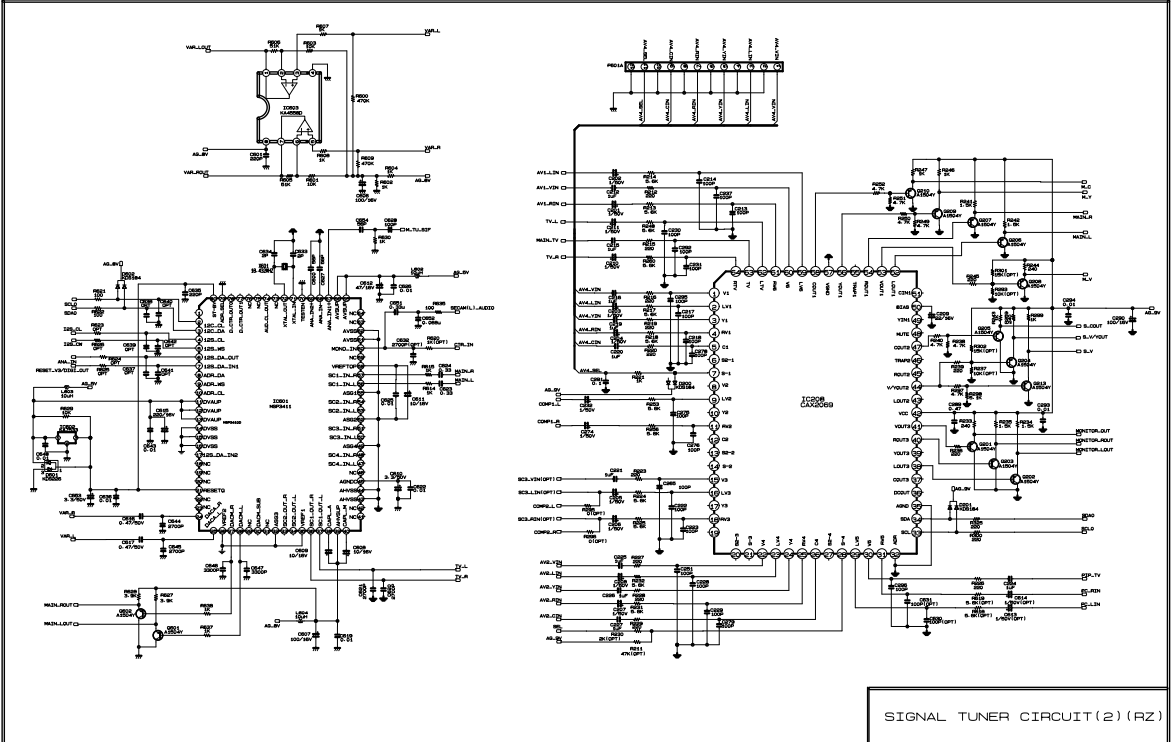
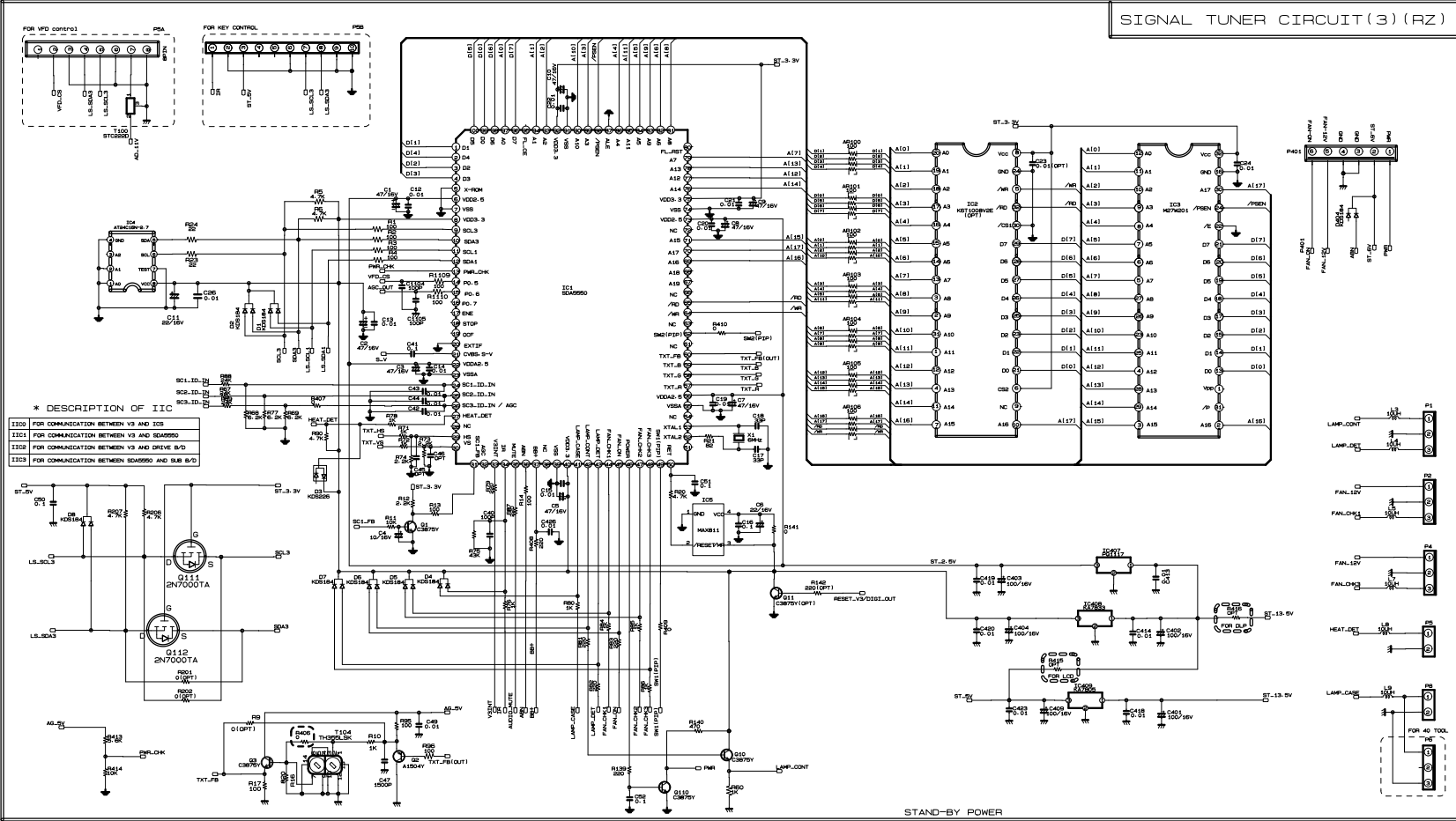
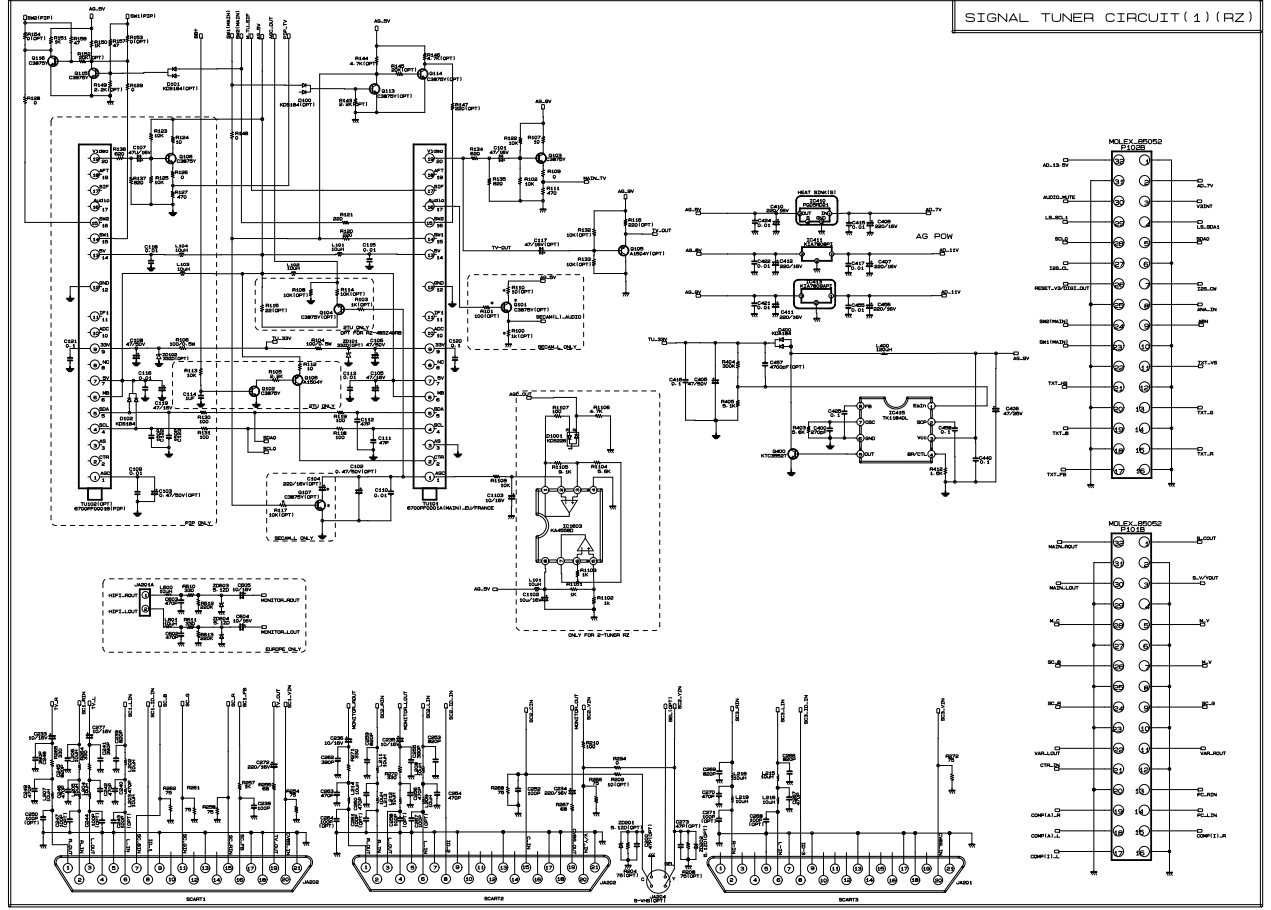
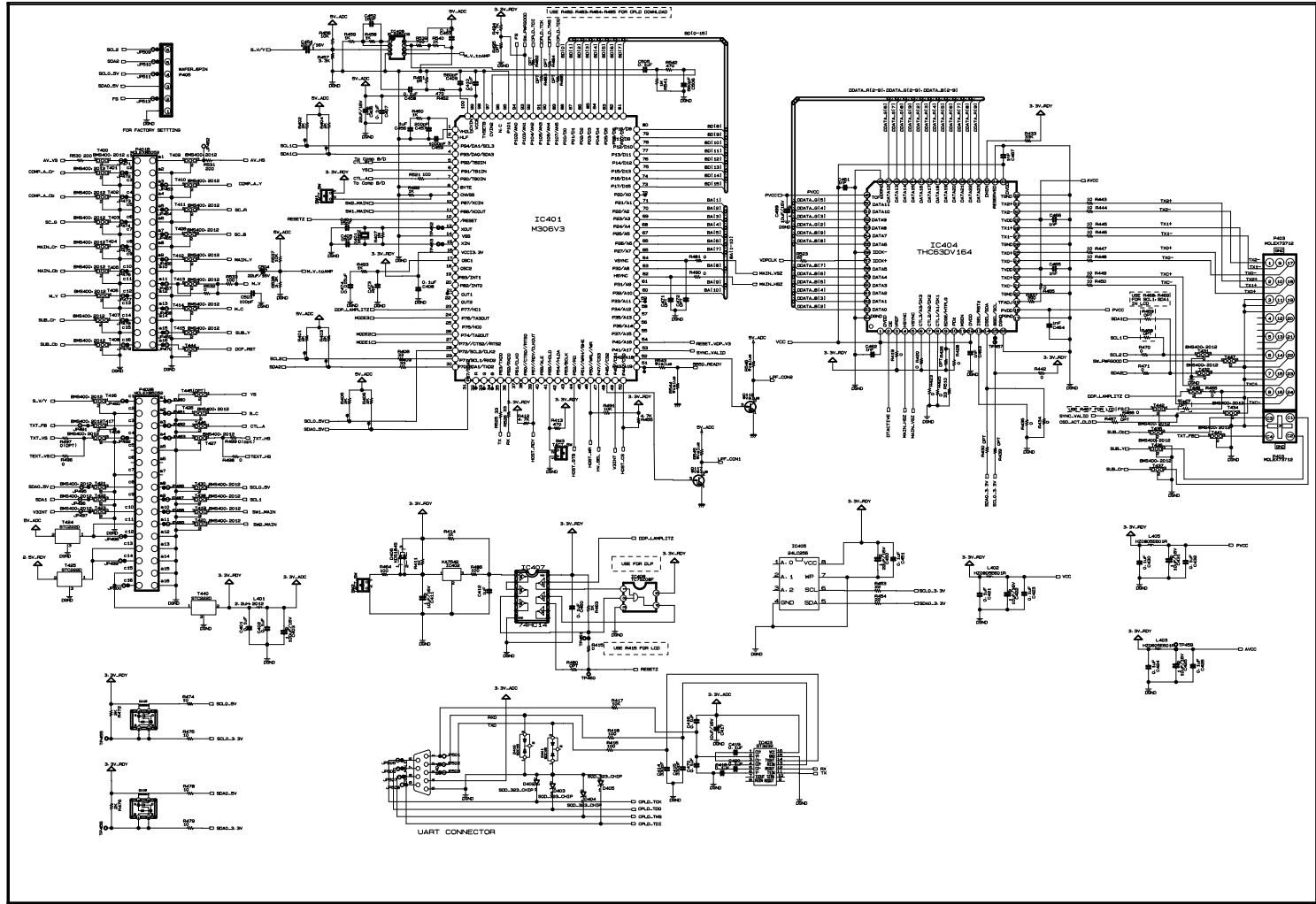
LOCA. NO	PART NO	DESCRIPTION
T108	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
T108	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T109	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T110	0IZZVF0022C	AFM730F6M00X3(AF9397A) SIP 15P ST ACTIVE LPF
T110	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
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
T1301	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1302	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1303	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1304	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1401	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1402	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1403	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1404	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1501	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1502	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1503	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T1504	0LCCE00017A	HD-1M2012-301J 100MHZ 300OHM BULK
T250	6200C000035	TH355LSK-K5220=P3 TOKO BK 6MHZ 4FW TYPE
T251	6200C000035	TH355LSK-K5220=P3 TOKO BK 6MHZ 4FW TYPE
T400	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T402	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T402	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2200PF
T403	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
T411	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
T428	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T430	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA

LOCA. NO	PART NO	DESCRIPTION
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
T445	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T446	6200QJ3001A	EMI REEL/TAPING BMS400 NIGATA 25V 200MA
X1	156-A01L	CRYSTAL HC49U 6.000MHZ 30PPM 16PF BK
X100	156-A01L	CRYSTAL HC49U 6.000MHZ 30PPM 16PF BK
X101	6202VDT002E	CRYSTAL SX-1SMD 20250000HZ 30PPM 16PF TP
X102	6202VDT002E	CRYSTAL SX-1SMD 20250000HZ 30PPM 16PF TP
X1100	6202VDT002D	CRYSTAL SX-1SMD 8.0MHZ 30PPM 16PF TP
X1201	156-A01B	CRYSTAL HC49U 3.579545MHZ 30PPM 16PF BK
X1202	156-A01E	CRYSTAL HC49U 4.000MHZ 30PPM 15PF BK
X401	6212AB2015D	CRYSTAL HC-49/SM 16MHZ +/- 50 PPM 16PF T/R
X601	156-A02M	CRYSTAL HC49U 18.432MHZ 30PPM 10PF BK
SWITCH		
SW01	140-275E	SPBS222EP011 POSTEC NON DC50V 0.3A
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 0.001A
SW801	140-289A	POWER SDDF3PASP013 LG C&D UL/C
JACK		
J1000	6612JH003EA	UST-AG-013 UGCOM 2P SPK TERMINAL GN-RD
JA1201	6613V00013L	PMJ021-13 PARK ELEC A/V 3X3
JA1202	6612VJH006B	PJ6061D PARK ELEC. HORIZONTAL 2*3 6P
JA201	6613V00010B	PMJ016B PARK ELEC A/V 3P + S-VHS (RD WH YL)
JA201	6612M00005C	UPJ-R1-032 UGCOM NON
JA202	6612VMH002A	PMJ020A 2X21 PIN ABOVE 4.5MM FROM PCB
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	6612BBBHN7A	74320-3004 MOLEX DVI INTERACED 30PIN
P401B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P402B	6612VMH003A	36510-0032 MOLEX 48PIN PITCH2.54MM
P403	6612BBBHN6A	440062-1 AMP DVI INTERACED RIGHT ANGLE
ACCESSORIES		
A1	3828VA0447B	MANUAL,OWNERS MB03AA 125C TX 016C 026C
A2	6710V00125C	REMOTE CONTROLLER,MB03CA
MISCELLANEOUS		
F800	0FS5001B51D	FUSE,SLOW BLOW 5000MA 250 V 5.2X20
IC3	6620VF3201A	SOCKET(CIRC),IC822473-3 AMP 32PIN 2.54MM
NTC801	163-048D	THERMISTOR,NTCKL15L2R5 +/- 15% 125V

LOCA. NO	PART NO	DESCRIPTION
NTC802	163-048D	THERMISTOR,NTCKL15L2R5 SSANSHIN +/- 15% 125V
PA1	6726VH0001A	REMOTE CONTROLLER RECEIVER, TSOP1238RF1
TU101	6700SP0001A	TUNER,TAUL-S210D LG INOTEK
TU102	6700SP0001B	TUNER,TAFL-S211P LG INOTEK
VA800	164-003K	VARISTOR,SVC621D-14A ILJIN 620V 0%
X300	6204B60001B	OSCILLATOR,V 27MHZ +/- 100 PPM 3.3V









P/NO : 3828VD0167A

Feb.,2004
Printed in Korea