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LCD Projection TV SERVICE MANUAL

CHASSIS : MB-03CA

MODEL : RT-52SZ30RB/RP

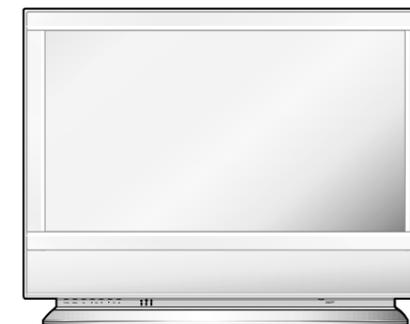
CAUTION

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



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

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

General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

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

X-RAY Radiation

Warning:

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

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

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 ; 1.5KV: 14-19 inch, 26 ; 1.5KV: 19-21 inch,

29.0 ; 1.5KV: 25-29 inch, 30.0 ; 1.5KV: 32 inch

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

Before returning the receiver to the customer,

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

Leakage Current Cold Check(Antenna Cold Check)

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

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

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

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

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

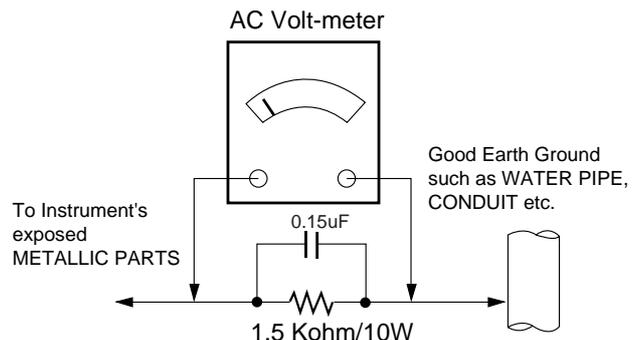
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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.

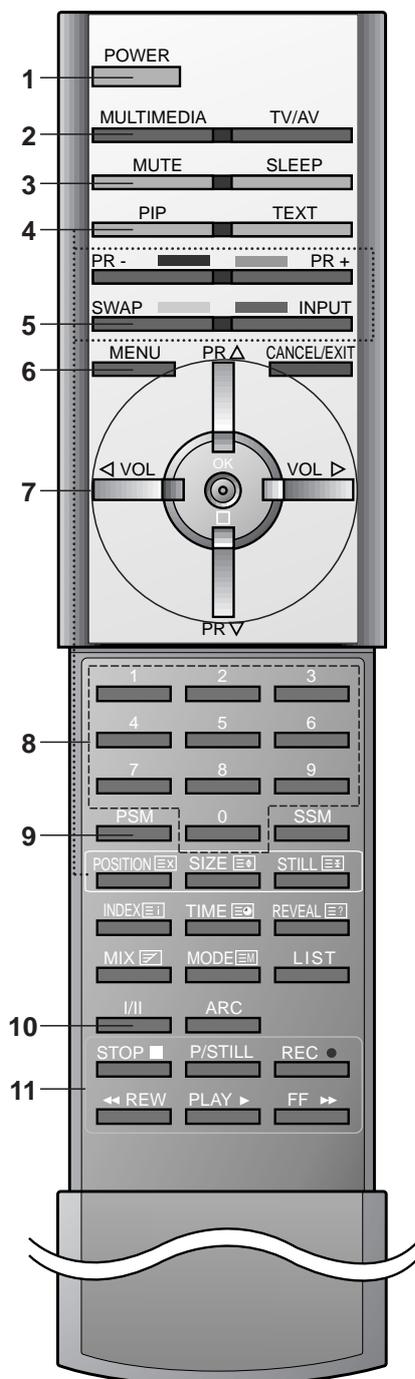
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

CONTROL DESCRIPTIONS

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

Remote control handset

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



1. **POWER**
switches the set on from standby or off to standby.
2. **MULTIMEDIA**
selects **Component 1/2, RGB-DTV** or **RGB-PC** modes.
3. **MUTE**
switches the sound on or off.
4. **PIP BUTTONS**
PIP
switches the sub picture on or off.
PR +/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT
selects the input mode for the sub picture.
SIZE
adjusts the sub picture size.
STILL
freezes motion of the sub picture.
POSITION
relocates the sub picture in clockwise direction.
5. **SWAP**
returns to the previously viewed programme.
6. **MENU**
selects a menu.
7. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
8. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
9. **PSM (Picture Status Memory)**
recalls your preferred picture setting.
10. **I/II**
selects the language during dual language broadcast.
selects the sound output.
11. **VCR BUTTONS**
control a LG video cassette recorder.

12. TV/AV

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

13. SLEEP

sets the sleep timer.

14. TELETEXT BUTTONS

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

15. CANCEL/EXIT

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

16. SSM (Sound Status Memory)

recalls your preferred sound setting.

17. STILL

freezes motion of the picture.

18. LIST

displays the programme table.

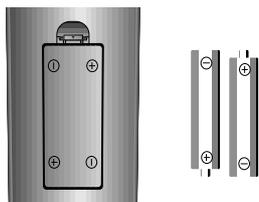
19. ARC (Aspect Ratio Control)

changes the picture format.

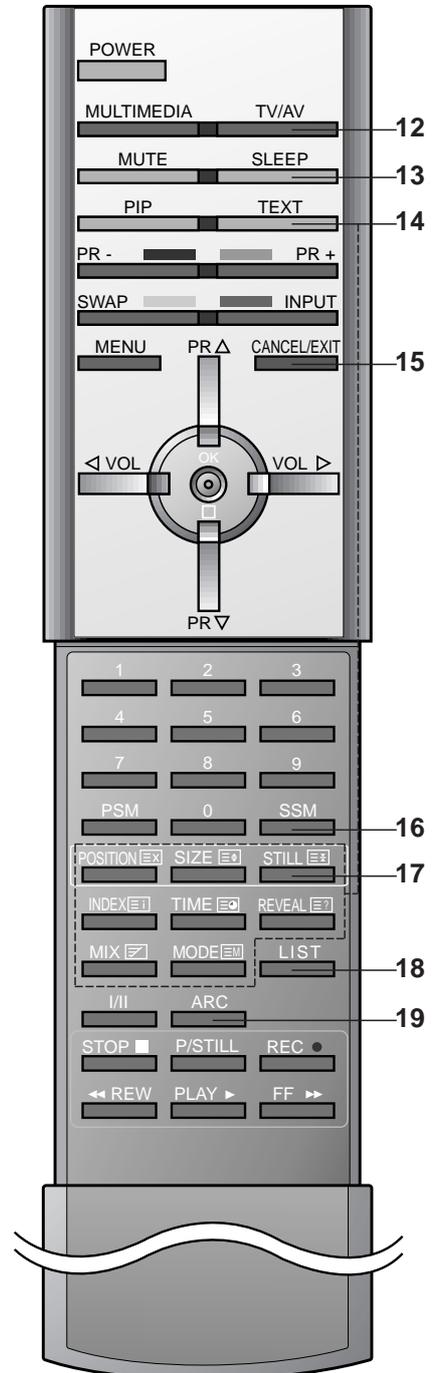
Note : In teletext mode, the **PR +/-**, **SWAP** and **INPUT** buttons are used for teletext function.

Battery installation

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

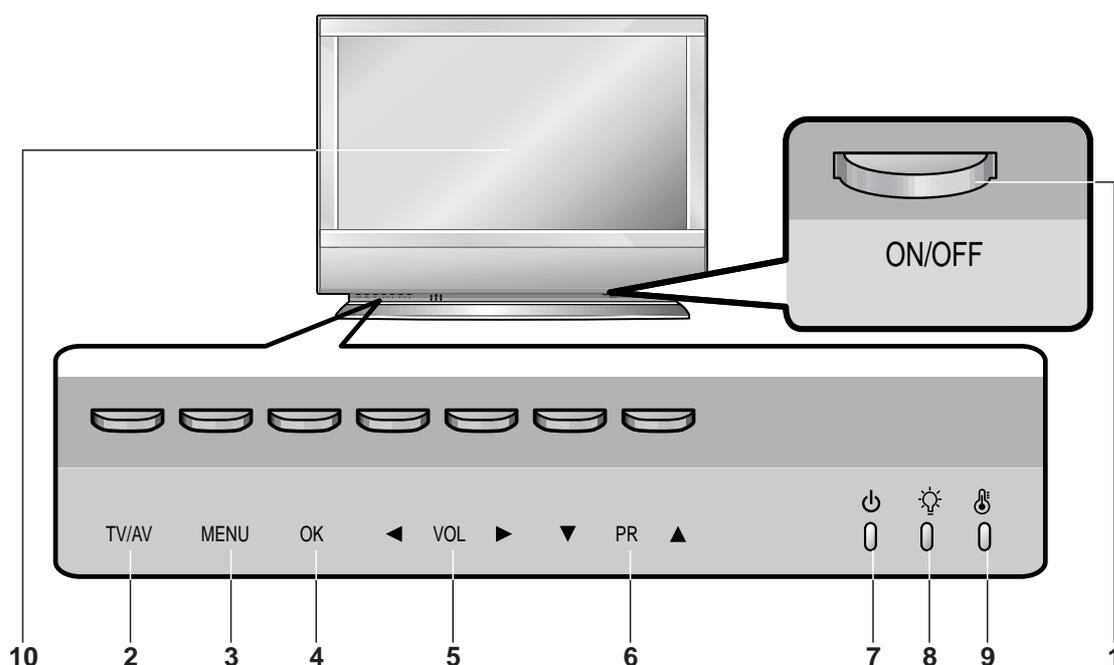


Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.



Front panel

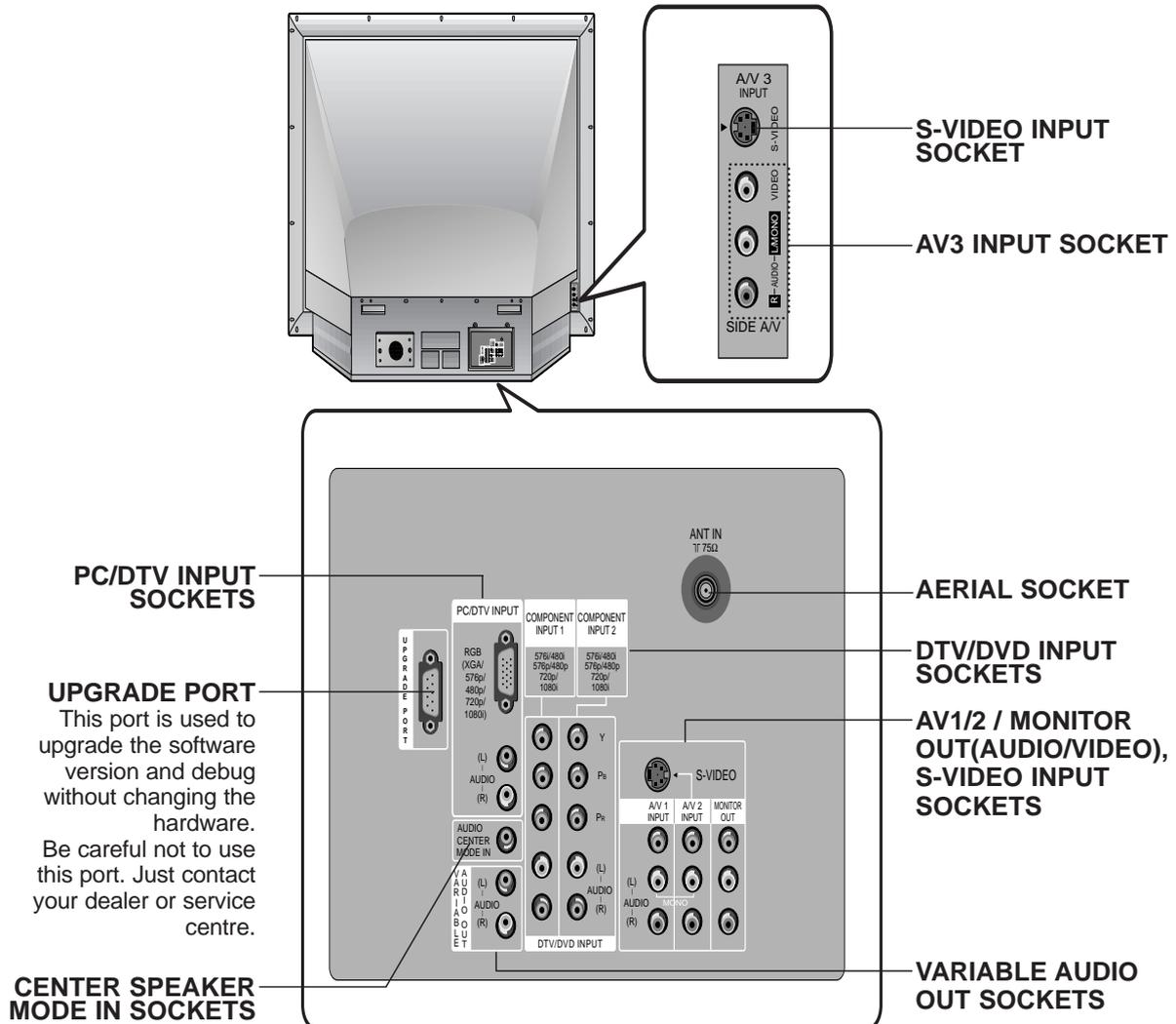
Lamp indicator, operation indicator, and temperature indicator, located below the front panel controls reveal the operating status of the LCD projection TV.



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

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

Rear panel



•Status Indicators

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

SPECIFICATIONS

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

■ Scope

This specification can be applied to the LCD Projection(RT-52SZRB/RP)

Model Name	Market Place	Remark
RT-52SZ30RB/RP	Australia	- RB :Teletext
	China	- RP :W/O Teletext
	Moroco	option

■ Test and Inspection Method

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

■ Test Condition

- 1) Temperature :25 ; 5°C
- 2) Relative Humidity:65 ; 10%
- 3) PowerVoltage:Standard input voltage(AC 240V ; 1 0 %, 50/60Hz)
But Standard input voltage mark value is marked by model.
- 4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
- 5) Follow each drawing or spec for spec and performance of parts,based upon P/N of B.O.M
- 6) Warm up TV set for more than 30min. before the measurement.

■ General Specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Video input applicable system	PAL – B/G, D/K, I, M, N SECAM B/G, D/K NTSC - M, 4.43				Only AV input signal for NTSC - 4.43
2	Available Channel	(1) VHF : 1 ~ 9 UHF : 20 ~ 75 CATV : 1~44				
3	Input Voltage	AC 240V, 50H/60Hz				
4	Market	Australia				
5	Screen size	52 inch				
6	Aspet ratio	16:9 (wide)				
7	Operating Temperature	0		40	deg	
8	Operating Humidity			85	%	
9	Storage Temperature	-20		60	deg	
10	Storage Humidity			85	%	

■ Feature and Function

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	REMOCON	LG Code				
2.	RGB Input	1	Separate		D-Sub 15 Pin	
3.	RGB Audio (L, R) Input	1				
4.	Center Speaker Mode Input	1				
5.	Component Audio (R, L) Input	2	L/R			
6.	Component Input	2	Y, P _B , P _R			
7.	AV Input	3	(1 Side / 2Rear)			
8.	S-Video Input	2	(1 Side / 1Rear)			
9.	Monitor out	1	1Rear			
10.	Variable Audio out	1				
11.	Serial Port	1			RS-232C	
12.	Local key	Power, Menu, ok, Volume (◀, ▶) Channel (▲, ▼)				
13.	Picture, EZ Video mode	Dynamic/ Standard/ Mild/ Game/ User				
14.	Picture, User Control	Contrast/ Brightness/ Colour/ Sharpness/ Tint				
15.	Display mode	DTV & PC : 16:9/ 4:3/ Zoom/ Auto CVBS : 4:3/ 16:9/ Zoom/ Auto				
16.	Sound, EZ Sound mode	Dolby Virtual/ Flat/ Music/ Movie/ Speech				
17.	Sound Stereo/ Dual	A2 : B/ G, D/ K, NICAM : B/ G, D/ K, I, L/ L'				
18.	PIP/ POP Mode	O				
19.	SSC (Split Screen) Mode	O				
20.	Teletext	Top/ Flop 128Page				
21.	Timer	Sleep Timer/ Auto Sleep				
22.	OSD Language	English				

■ Power

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

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
9	DC Voltage, Digital, 5V	2.4	2.5	2.6	V	
10	DC Voltage, Turning voltage	3.2	3.3	3.4	V	
11	DC Voltage, LCD Driver, 5V	4.8	5.0	5.2	V	
12	DC Voltage, LCD Driver, 17.5V	11.5	12	12.5	V	
13	DC Voltage 3.3, SUB MICOM	30	32	33	V	
14	DC Voltage 2.5V, SUB MICOM	4.8	5	5.2	V	
15	DC Voltage, FAN	11.5	12	12.5	V	

External Interface

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Video Input Level	0.85	1	1.15	Vpp	
2.	Video Input Frequency Response	3			MHz	
3.	Video output S/N	40			dB	
4.	S-Video Input Level (Y)	0.85	1	1.15	Vpp	
5.	S-Video Input Level (C-Burst)	0.256	0.286	0.316	Vpp	
6.	Component Video Input Level (Y, C _B / P _B , C _R / P _R)	0.6	0.7	0.8	Vpp	75 ohm (480I/P, 576I, 720P, 1080I)
7.	R/G/B Video Input Level	0.6	0.7	0.8	Vpp	75 ohm
8.	Audio Input S/N	40			dB	
9.	Audio Input Distortion			2	%	
10.	Audio Input Dynamic Range	2			V	
11.	Audio Input Level	0.47	0.63	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		0			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		0			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			0 : BG / I /D 1 : BG / L 2 : BG / I DK / M
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

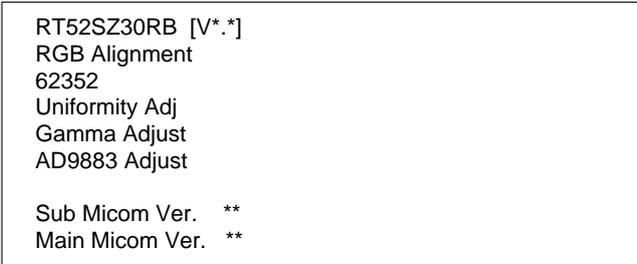
This instruction is for the application to the LCD Projection

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 $25\pm 5^{\circ}\text{C}$ of temperature and $65\pm 10\%$ of relative humidity if there is no specific designation.
- (4) The input voltage of the receiver must keep 230V, 50Hz in adjusting.
- (5) The set must be operated for 5 minutes preliminarily before adjustment if there is no specific designation. The preliminary operation must be performed after receiving 100% white pattern, but reception of the moving picture may also be possible in unavoidable case.

3. Composition of Adjustment Mode

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



<The first screen of adjustment mode>

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



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

4. LCD adjustment

4-1. NRS adjustment

[When the LCD pannel 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 of adjustment
- 4) Circuit thing Jig for adjustment (Except Driver Board Assy)

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

(3) Preparation for Adjustment

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

(4) Adjustment Sequence

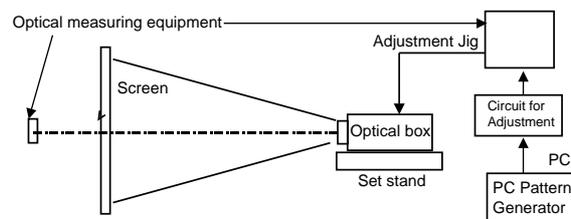
- 1) Turn on power supply in the JIG for adjustment.
- 2) Press the INPUT key to select RGB_PC mode.
- 3) Press the ADJ key on remote control for adjustment to enter the adjustment mode.
- 4) Select the '62352' and press the ▶ key. Then select 6. RNRSH, 9.GNRSH, 11.BNRSH of ADJUST MODE to adjust.
- 5)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

4-2. VCOM ADJUSTMENT

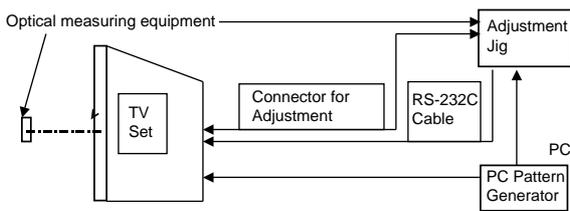
(1) Required Test Equipments

- 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) Equipment Composition



<Fig 1. Adjustment of circuit>



<Fig 2.TV set status Adjustment>

(3)Preparation for Adjustment

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

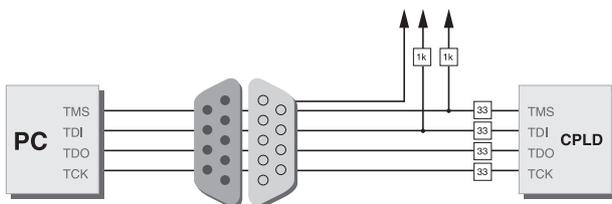
(4) Adjustment Sequence

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

5. CPLD Download Work

(1) Required Test Equipments & Preparation for Adjustment

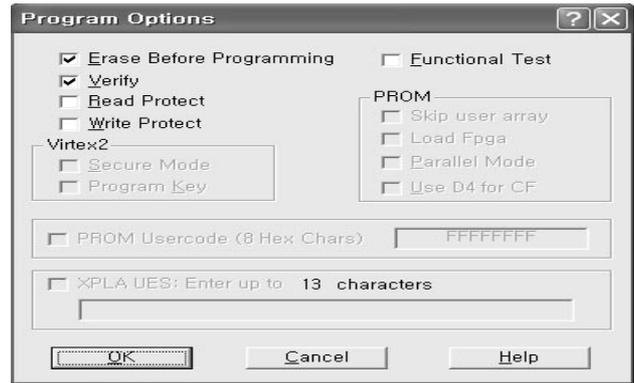
- 1) Connect the PC and memory JIG as shown <fig3>.
- 2) Turn on JIG MAIN POWER SW.
- 3) After turn on the PC and monitor, operate the device programming.



<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.Assembling Adjustment

6-1. Screen Tilt & Keystone Adjustment

(1) Required Test Equipments

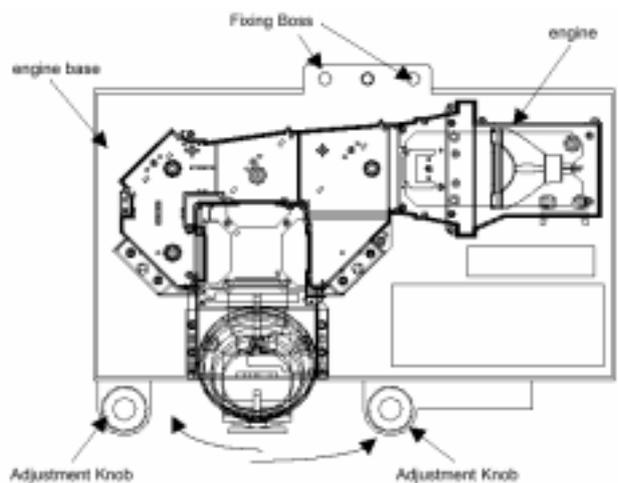
- 1) Six angles wrench and spanner for knob adjustment or fixation
- 2) Remote control

(2) Preparation for Adjustment

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

(3) Adjustment Sequence

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



<Fig 5>

6-2. Screen Position Adjustment

(1) Required Test Equipments

A remote control of adjustment

(2) Preparation for Adjustment

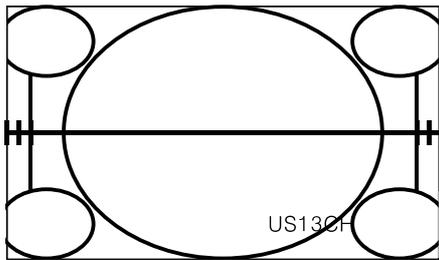
- 1) Connect the power source with TV Set and turn TVset on
- 2) Do Heat Run for 5 minutes and over before adjustment.
- 3) Recieve main/sub signal of company through 13CH by split screen.

(3) Horizontal Position Adjustment

- a) Press ADJ key on the remote control to enter the adjustment mode
- b) Select the RGB Alignment of the adjustment menu.
- c) Select H-position with ► key.
- d) Adjust data with using th left/right key on the remote control in order to be left/right semmetry screen. (Three blocks of the most outer block must be located the most outer block.

(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.



<Fig 6> H/V screen for Position adjustment

6-3. 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 15 minutes and over before adjustment.
- 3) Receive the Component 1 or 2.
- 4) Receive the 720P, HozTVBar Pattern of 801GF(Fig 7).



<Fig 7 720P HozTVBar Pattern>

(3) Offset Adjustment

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

(4) Component & RGB Mode White Balance passivity adjustment

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

6-4. White Balance & Gamma Adjustment

(1) Required Test Equipments

- 1) CA100 : 1EA
-> Measure colour of projecting screen center [CA-110(name of model) is possible to measure White Balance and Gamma - leave it 20Cm from screen center Follow a measurement machine manual to set CA -100 and CA - 110 measurement machine.]
- 2) pattern Generator : 1EA -> 16 step Gray Pattern, 64 step Gray Pattern
- 3) SET Fixation Stand : 1EA
- 4) Remote control : 1EA
- 5) Circuit thing Jig for adjustment (Except Drive Board Assy of adjustment model)
--- Programmed Digital Board so that the VDP Test Pattern can output white signal by 1 level from 0 to 255 level.

(2) Equipment composition : Follow <Fig 2>

Adjust at same condition of equipment composition diagram.

(3) Preparation for Adjustment

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

- 1) Select the VDP Test Pattern signal to R1, G1, B1.
- 2) Press the Adjust key to select 62352 and then select RVREF, GVREF, BVREF in adjust mode
- 3) Adjust the luminance of CA100 to be below 0.75Cd by volume key.(Range : 196~ 202)
- 4) Exit adjustment mode by pressing Adjust key.
- 5) Press the IN-START key on the remote control and select the 7050 RGB Set of adjustment mode and then press the ► key.
- 6) Check the data value of Rcontrast, Gcontrast, Bcontrast 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.
- 3) Change the 16 Step RGB data to select white balance x:283, y:294.
* When white balance x:283, y:294 in VDP PATTERN, picture signal is set to x:283, y:297, in as a matter of fact.
- 4) Measure the luminace with chanded data.
- 5) Set the every Gamma data of 16 steo to 2.5 on the basis of measured luminance data in 3).
(Max lumenance $*(n1/16)**2.5$ --- Max lumenance : measured lumenance data n1= every step unit when separating signal level to 16 step)

Gamma Adjust		
R:1	G:2	B:3
80	100	100
234	216	216
453	411	387

724	690	780

* First column : R adjustment data display

* Second column : G adjustment data display

* Third column : B adjustment data display

- 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 balance $x=283, y=294$ and measured step luminance in 5).
- 7) Output the 240, 240, 240 (14th data in max white output signal level) in the VDP Test Pattern, change the 14th RGB data value to come out white balance $x=283, y=294$ and measured step luminance in 5).
- 8) As shown above, output the VDP Test Pattern signal (208/192/176/160/144/128/112/96/80/64/48/32/16) and change the RGB data value of each step to come out white balance $x=283, y=294$ and measured luminance in 3).

(5) Sequence of Gamma manually adjustment

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

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

6-5. White Uniformity Adjustment

(1) Required Test Equipments

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

(2) Equipment composition

Compose the equipment as Fig.2

(3) Preparation for Adjustment

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

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

7. KHH : Upper 2byte of horizontal line correction coefficient -- Change according to CSHP, CEHP value.
8. KHL : Upper 2byte of vertical line correction coefficient -- Change according to CSHP, CEHP value.

** How to calculate KHH, KHL value
 LCD panel size = 1280 x 720
 Correction Point = 221 point
 --> 17 horizontal points x 13 vertical points
 (16 horizontal segments x 12 vertical points)

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

H coefficient = 1/(number of pixel intervals between setting in the horizontal direction)
 $Hcoeff = 1/((1280/16)-1) = 0.012658227$
 hex (0.012658227 x 2¹⁶) = 0 x 033D, Hcoeff (hex) = 0 x 033D + 1 = 0 x 33E

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

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

V coefficient = 1/(number of pixel intervals between setting in the vertical direction)
 $Vcoeff = 1/((720/12)-1) = 0.016949152$
 hex (0.016949152 x 2¹⁶) = 0 x 0456, Vcoeff (hex) = 0 x 0456 + 1 = 0 x 0457
 value =12)

11. RL1H : Upper 9bit of MID2 brightness correction coefficient in R MIN. --- Change according to RMIN and RMID2 value.
12. RL1L : Lower 9bit of MID2 brightness correction coefficient in R MIN. --- Change according to RMIN and RMID2 value.
13. RL2H : Upper 9bit of MID1 brightness correction coefficient in R MID2. --- Change according to RMID2 and RMID1 value.

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

<L Coefficient Calculation Method>

Using 3coefficient Level

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

R/G/B MIN = 192

R/G/B MID2 = 448

R/G/B MID1 = 704

● L Coefficient(RL1H~BL3L)

--> Calculation method (L1)

```
L1 coefficient = 1/(brightness level(MID2) - brightness level(MIN))
L1 coeff = 1/(448 - 192) = 1 / 256 =0.00390625
L1 coeff(hex) =hex(0.00393625 x 218) =0 x 0400
-> L1H(high 9bit) = b'000000010      L1L(low 9bit) = b'000000000
```

- calculate L2, L3 same with L1

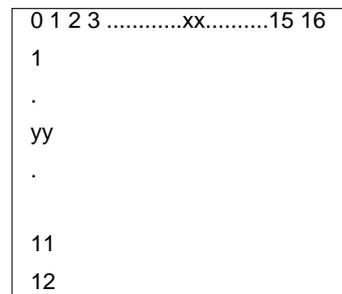
```
L2 coefficient =1/(brightness level(MID1) - brightness level(MID2))
L3 coefficient = 1/(brightness level(MAX) - brightness level(MID1))
: case of 4 brightness Level
```

- 17. GL1H : Upper 9bit of MID2 brightness correction coefficient in G MIN.
--- Change according to GMIN and GMID2 value.
- 18. GL1L : Lower 9bit of MID2 brightness correction coefficient in G MIN.
--- Change according to GMIN and GMID2 value.
- 19. GL2H : Upper 9bit of MID1 brightness correction coefficient in G MID2.
--- Change according to GMID2 and GMID1 value.
- 20. GL2L : Lower 9bit of MID1 brightness correction coefficient in G MID2.
--- Change according to GMID2 and GMID1 value.
- 21. GL3H : Upper 9bit of MAX brightness correction coefficient in G MID1.
--- Change according to GMID1 and GMAX value.
(use it while adjusting 4 coefficient)
- 22. GL3L : Lower 9bit of MAX brightness correction coefficient in G MID1.
--- Change according to GMID1 and GMAX value.
(use it while adjusting 4 coefficient)
- 23. BL1H : Upper 9bit of MID2 brightness correction coefficient in B MIN.
--- Change according to BMIN and BMID2 value.
- 24. BL1L : Lower 9bit of MID2 brightness correction coefficient in B MIN.
--- Change according to BMIN and BMID2 value.
- 25. BL2H : Upper 9bit of MID1 brightness correction coefficient in B MID2.
--- Change according to BMID2 and BMID1 value.
- 26. BL2L : Lower 9bit of MID1 brightness correction coefficient in B MID2.
--- Change according to BMID2 and BMID1 value.

- 27. BL3H : Upper 9bit of MAX brightness correction coefficient in B MID1.
--- Change according to BMID1 and BMAX value.
(use it while adjusting 4 coefficient)
- 28. BL3L : Lower 9bit of MAX brightness correction coefficient in B MID1.
--- Change according to BMID1 and BMAX value.
(use it while adjusting 4 coefficient)
- 29. RLMIN : Setting up the 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. TestMode : uniformity adjustment test - Do not adjust

(4) Adjustment Sequence

1) Adjust the screen coordinates as shown below.



<Fig.5 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.

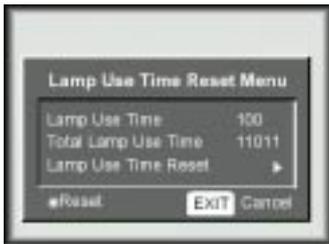
6-6. Brightness Adjustment of Main/Sub screen

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

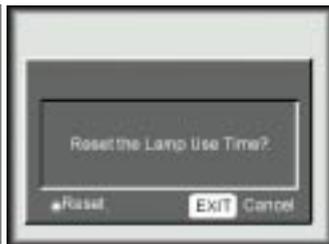
- (1) Receive RF 06Ch. to Main/Sub screen in twin picture.
- (2) Let the screen clearly.
- (3) Check the "US06CH" with naked eyes in 06Ch. pattern and if there is difference, adjust like this.
 - The field and the letters are distinguished.
- (4) Adjusting Main screen
 - 1) Press the "IN Start" key on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

6-7. Lamp Replace

Use it when the Lamp time is '0'.
 At the same time press the 'OK' key and 'Mute' key during 5 seconds.
 Displaying the OSD as <Fig.8> , press the Volume +(▶)
 Displaying the OSD as <Fig.9>, press the 'OK' key to reset the lamp use time.
 Press the IN-START key on R/C for adjustment to select Lamp replace and adjust with volume key.



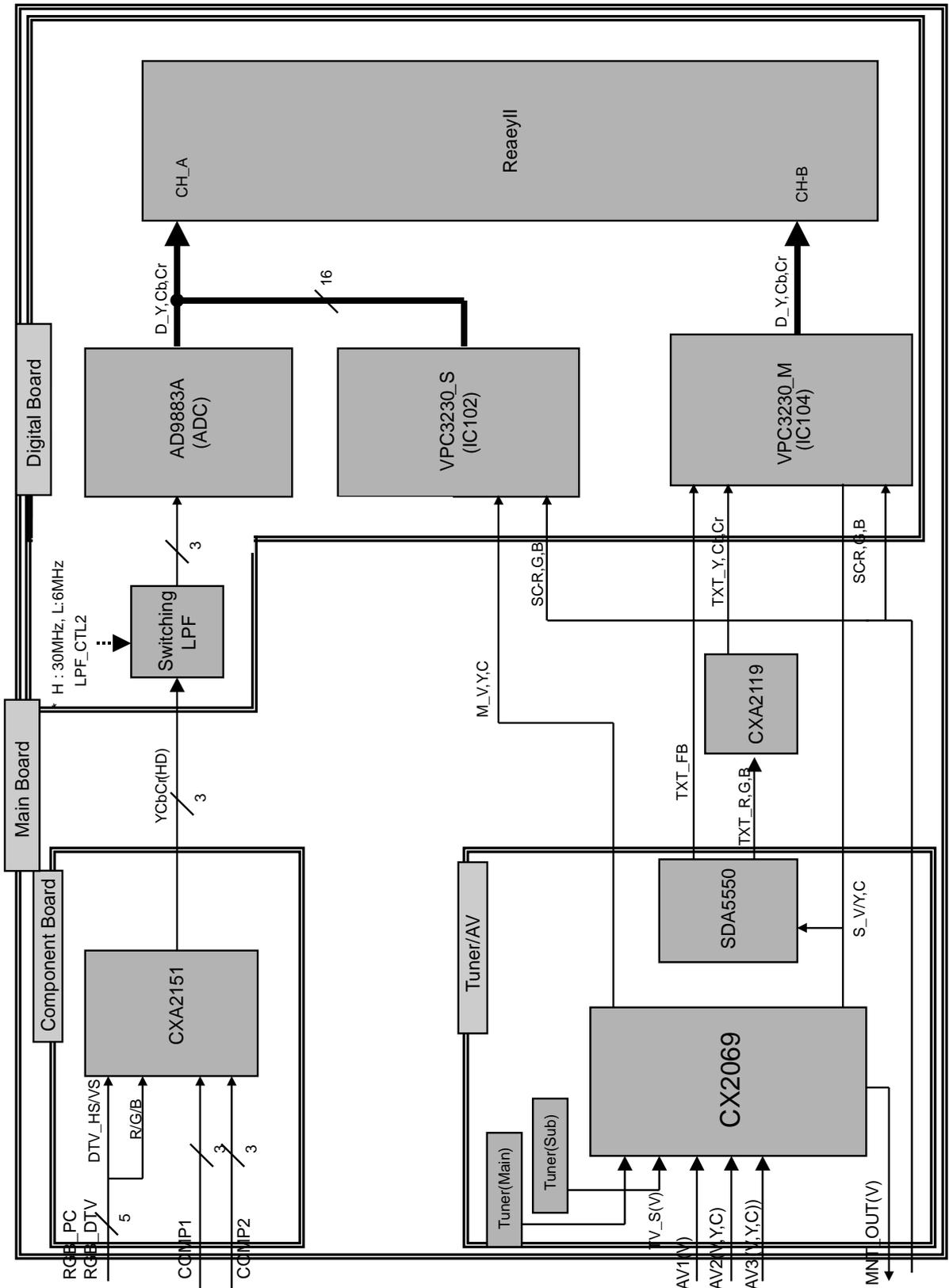
<Fig8. Lamp Use Time Reset Menu>



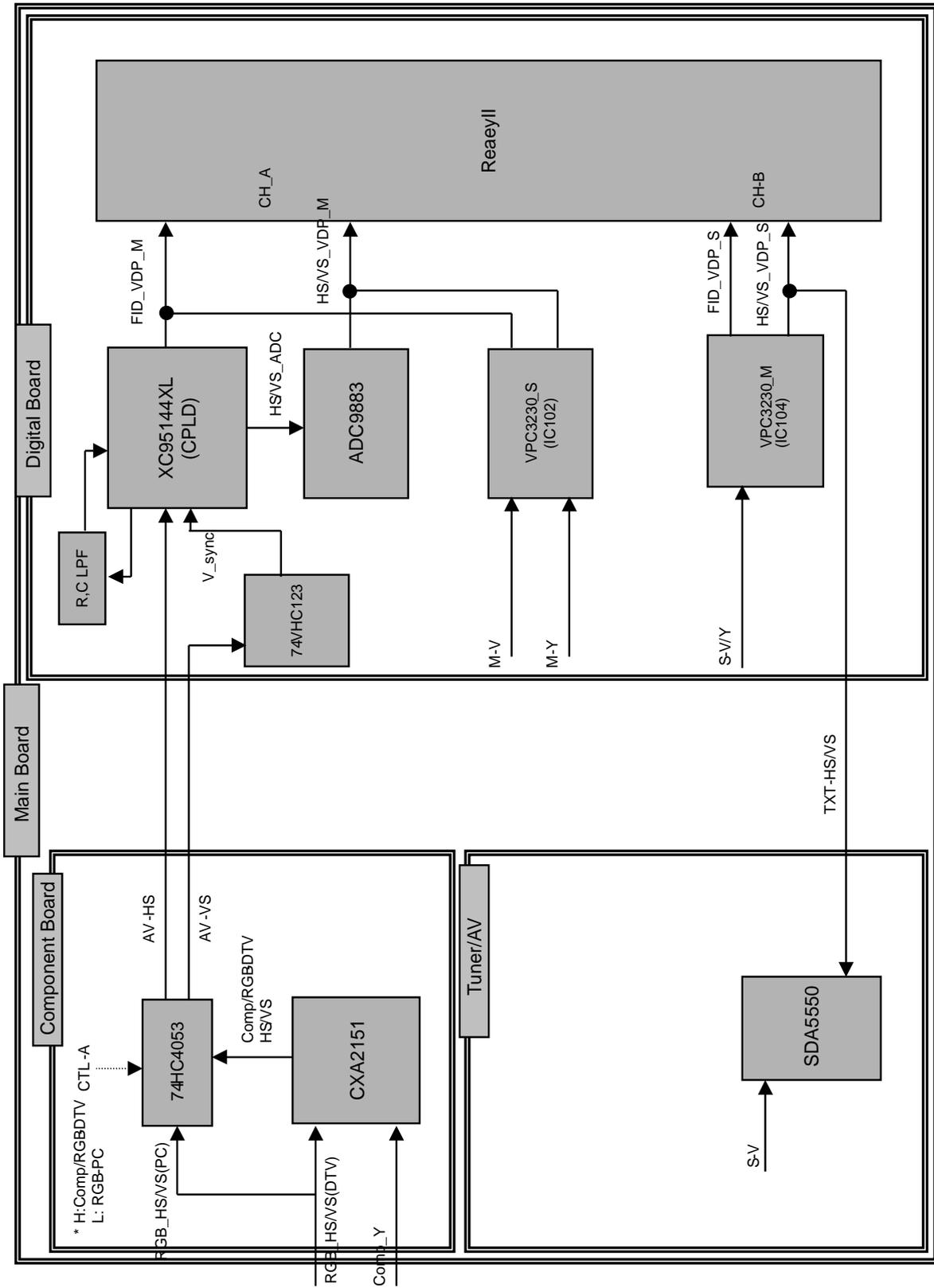
<Fig9. Reset Confirm>

BLOCK DIAGRAM

1. Video Input Path

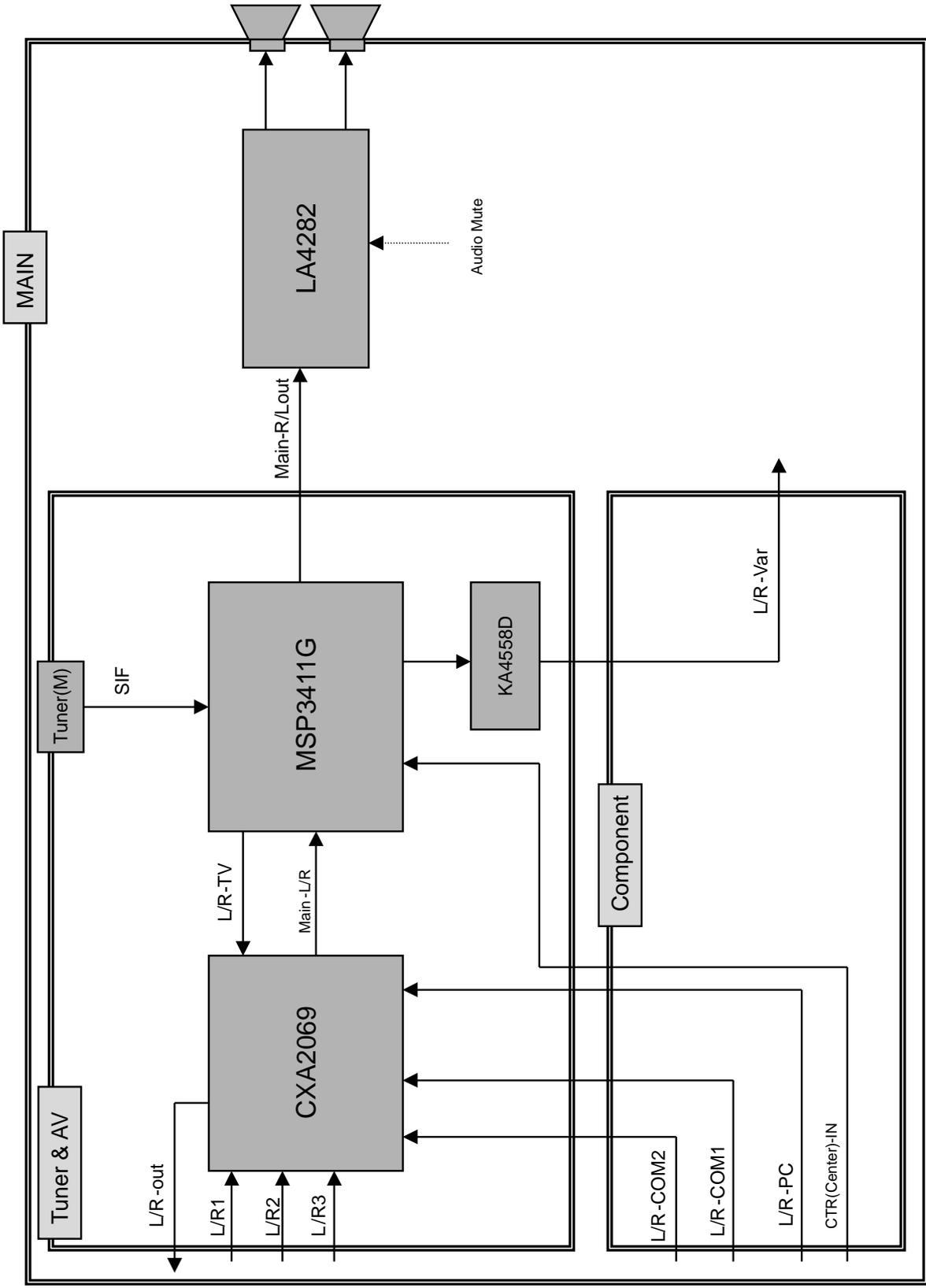


2. Syms I/O Path

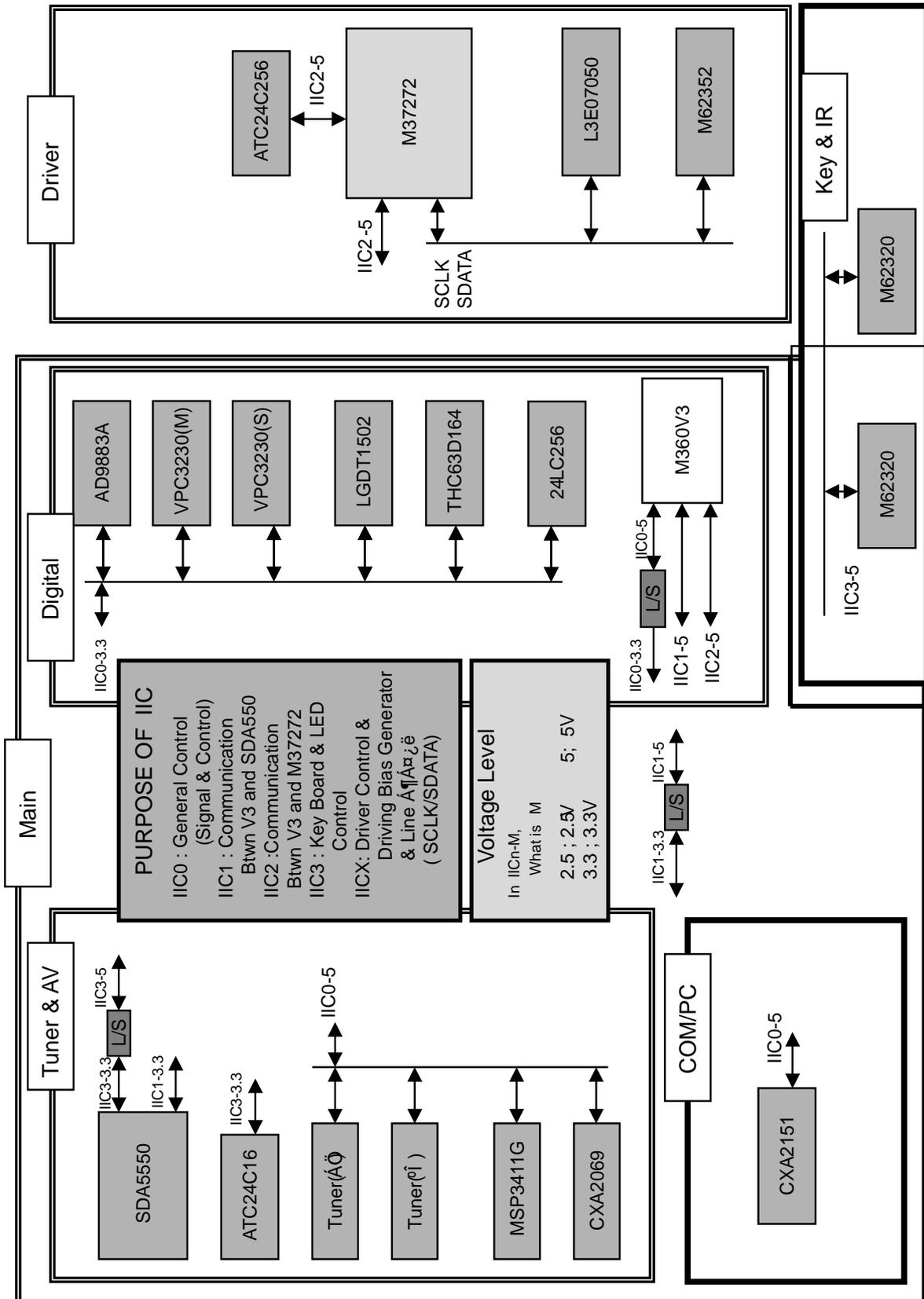


3. Audio Input Path

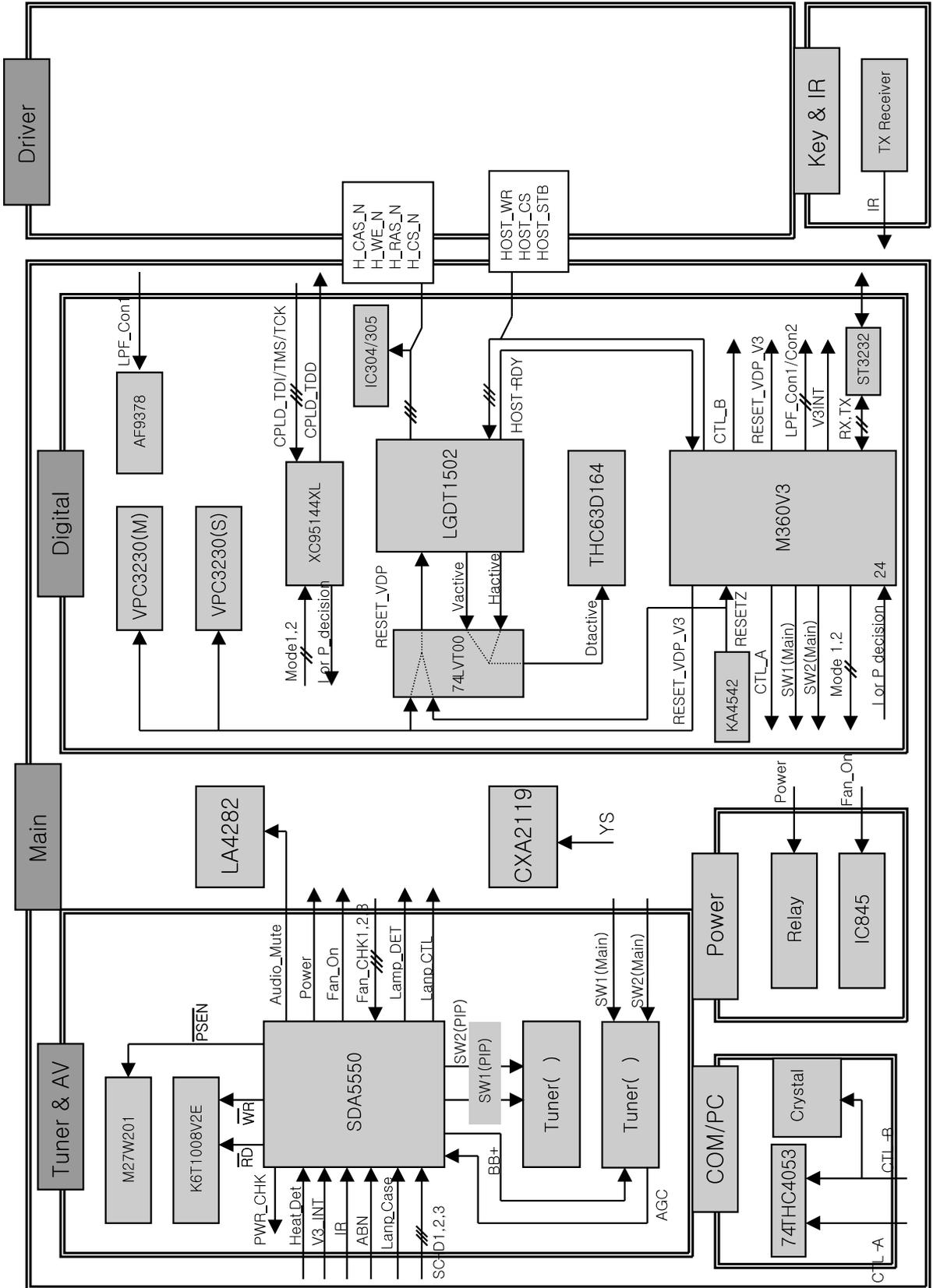
2003.04.30



4. Control Signal Connection Diagram- IIC

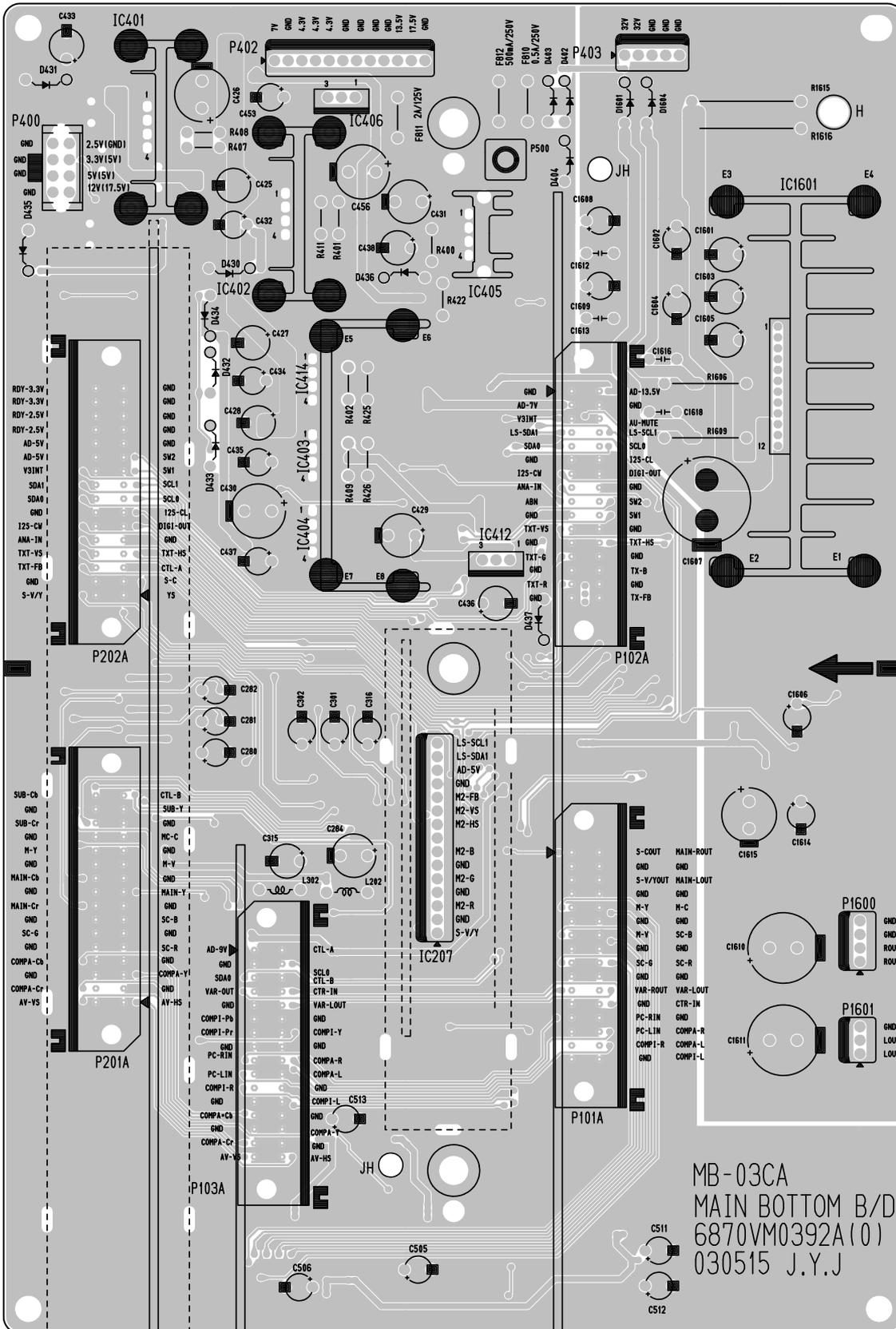


5. General Control Signal

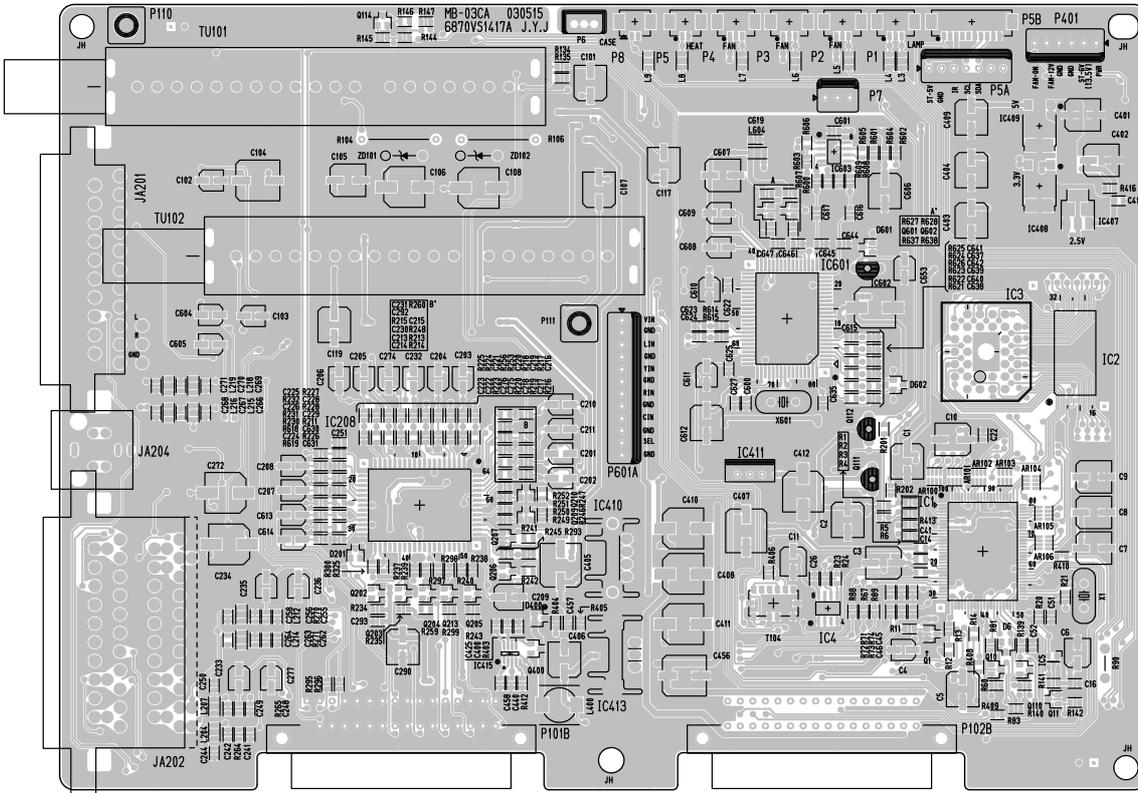


PRINTED CIRCUIT BOARD

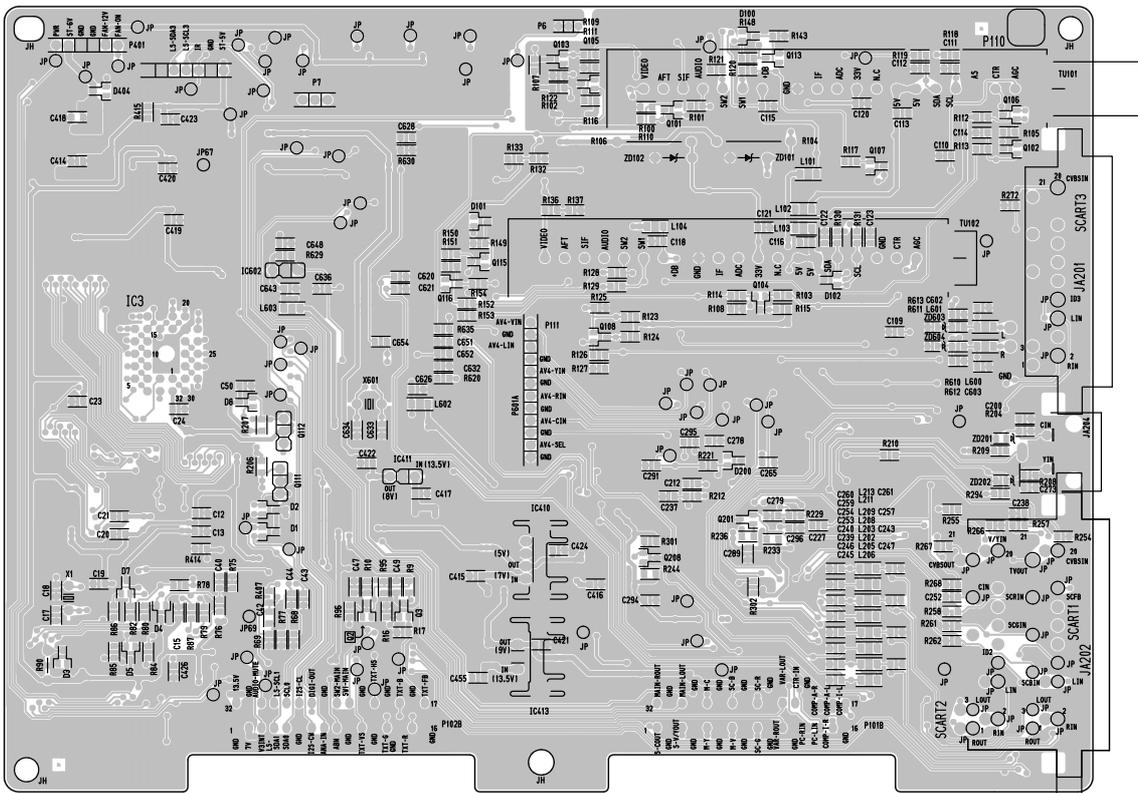
MAIN (TOP)



TUNER (TOP)

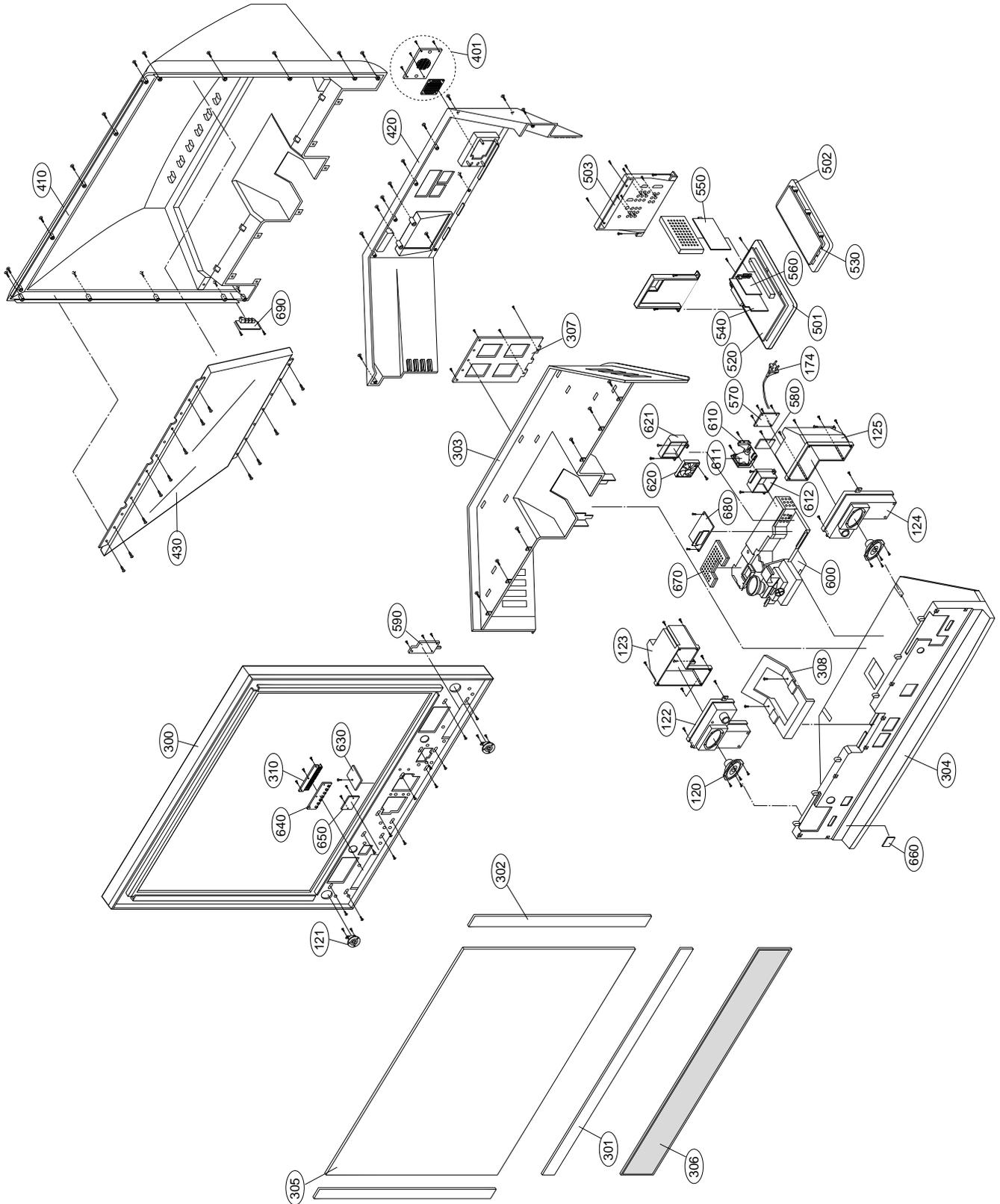


TUNER (BOTTOM)



MEMO

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	120-D38E	SPEAKER, MID-RANGE LG FOSTER 8 OHM 15/25W 87DB 12
121	6400VG0001B	SPEAKER, TWEETER NO FOSTER 8 OHM 20W/30W XX D77
122	3110V00123A	CASE, SPEAKER BOX LEFT
123	3550V00159A	COVER, SPEAKER BOX LEFT
124	3110V00124A	CASE, SPEAKER BOX RIGHT
125	3550V00160A	COVER SPEAKER BOX RIGHT
174	174-222Y	POWER CORD ASSEMBLY, NON NON SAA L=450MM 219A BLACK NON
300	3091V00B46B	CABINET ASSEMBL, RT-52SZ30RP STEREO MB03CA
301	4980V00591A	SUPPORTER, SCREEN SBHG, BOTTOM
302	4980V00592B	SUPPORTER, SCREEN SECC RN-52SZ30H
303	3211V00080A	FRAME ASSEMBLY, FRONT RN-52SZ10H 3210V00104
304	3211V00081H	FRAME ASSEMBLY, ASSY RT-52SZ30RP .
305	3350V00019B	SCREEN, TOPPAN NON RN-52SZ30H 1178*670 SAME 19A PITCH
306	4811V00035A	BRACKET ASSEMBLY, GRILLE. NB02QA
307	4980V00439B	SUPPORTER, FRAME ET CENTER FIX RN-52SZ10H
308	3550V00225A	COVER, LENS PC+ABS RN-52SZ10H
310	5020V00654C	BUTTON, CONTROL RN-52SZ30H ABS, HF-380 7KEY BUTTON
401	3550V00232B	COVER, LAMP RN-52SZ30H PC-ABS
410	3809V00A39E	BACK COVER ASSEMBLY, RT-52SZ30RP NON UPPER
420	3809V00A41D	BACK COVER ASSEMBLY, RT-52SZ30RB NON LOWER
430	5018V00025B	MIRROR, ASSY NONE NONE NONE RN-52SZ10H
501	3210V00127A	FRAME, RN-52SZ10H CHASSIS DIGITAL
502	3210V00073B	FRAME, RU-60SZ10 CHASSIS(SMPS) AB-00EA
503	4811V00021E	BRACKET ASSEMBLY, REAR AV RT-52SZ30RP NB03JA
520	6871VMMP50A	PWB(PCB) ASSEMBLY,MAIN AUS M/I
530	6871VPM14A	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA RT-52SZ30RP SMPS M/I
540	6871VSMU54B	PWB(PCB) ASSEMBLY,SUB TUNER MB03CA M/I
550	6871VSMU56A	PWB(PCB) ASSEMBLY,SUB DIGIT MB03CA M/I
560	6871VSMU55A	PWB(PCB) ASSEMBLY,SUB SUB MB03CA AUS COMPONENT M/I
570	6871VPM15A	PWB(PCB) ASSEMBLY,POWER SMPS MB-03CA RT-52SZ30RP AC INPUT M/I
580	6871VSMB13F	PWB(PCB) ASSEMBLY,SUB INTER MB03CA BALLAST
590	6871VSN154E	PWB(PCB) ASSEMBLY,SUB NB-03JA MAIN POWER SWITCH
600	3141VSN154E	CHASSIS ASSEMBLY SUB NB02QA BRACK OPTICAL
610	3110V00140A	CASE ASSY,LAMP RN-60SZ10
611	6912V00006A	LAMP, HIGH PRESSURE MERCURY UHP100W 1.3 PHILIPS 100V 1A RN60SZ10
612	4930V00230A	HOLDER, DUCT BACK FAN PC+ABS RN-52SZ10H
620	5900V09002C	FAN,DC G9225L12B2-FL DONGYANG 92MM 12V140MA 2000RPM 99GM MOTOR
621	3300V00156A	PLATE DUCT,FAN SECC
622	5900V11001C	FAN,DC B1232S12B2 DONGYANG 110MM 12V130MA 1300RPM 212GM BLOWER
630	6871VSN156D	PWB(PCB) ASSEMBLY,MAIN SUB NB03JA PRE-AMP RU-52SZ30
640	6871VSMD03E	PWB(PCB) ASSEMBLY,SUB CONT NB03JA RN-52SZ30H
650	6871VSN194A	PWB(PCB) ASSEMBLY,SUB INTER NB02QA 52 LCD PJTV
660	6871VSN187B	PWB(PCB) ASSEMBLY,SUB LED NB-02QA RN-52SZ10H M/I
670	6871VSMV06A	PWB(PCB) ASSEMBLY,SUB SUB MB03CA RT-52SZ30RP DRIVER M/I
680	6913V00002A	BALLAST, EUC-100L/100V PHILIPS FOR LAMP(UHP100W)
690	6871VSN155B	PWB(PCB) ASSEMBLY, SUB NB-02QA SIDE A/V

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
IC					
IC01	0IMI623200B	IC, M62320FP,I/O EXPANDER 16P	IC304	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC02	0IMI623200B	IC, M62320FP,I/O EXPANDER 16P	IC305	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC1	0ISM555000A	IC, SDA5550 MQFP100 BK MICOM TXT MC006A	IC306	0IIC271600A	IC, MK2716STR 8P,SOP TP
IC101	0IMCRAD002A	IC, AD9883A ANALOG DEVICE 80P TQFP R/TP	IC320	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC102	0IIT323000E	IC, VPC3230D C5 80P QFP	IC4	0IMCRAL006A	IC, AT24C16AN-10SI-2.7 ATMEL 8P SOIC R/TP
IC103	0IMCRXL003A	IC, XC95144XL-10TQ100C 3.3V XILINX TQFP 100P	IC401	0ICTMMI038B	IC, COPY M306V3FGFP MITSUBISHI 100P QFP
IC104	0IIT323000E	IC, VPC3230D C5 80P QFP	IC401	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR
IC105	0IFA741230A	IC, DM74LS123MX 16SOP TP DUAL RETRIG.	IC402	0IFA752700A	IC, KA75270Z 3 TP RE-SET IC MC-007
IC1100	0IZZVA0072A	IC, M37272E8A 42 DIP DRIVER 52	IC403	0IMCRSG010A	IC, ST3232CDR SOP16 R/TP RS232 DRIVER/RECEIVER
IC1100	0IMI372728A	IC, M37272E8A(OTP) 42SD BK M-COM	IC403	0ISH302122A	IC, PQ30RV21 TO-220
IC1101	0IMI623520B	IC, M62352GP 20P SSOP TP 8BITS 12CH D/A	IC404	0IMCRTI019A	IC, TFP410 TEXAS INSTRUMENT 64P TQFP
IC1102	0IAL242561B	IC, AT24C256W-10SI-2.7V 8P 2.7V-5V	IC404	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR
IC1103	0IPRPTI001A	IC, TFP401PZP TEXAS INSTRUMENT 100,TQFP	IC405	0IMP242560A	IC, 24LC256-I/SM 8P,SOP TP 256K IIC
IC1104	0IKE704200J	IC, KIA7042AF SOT-89 TP 4.2V	IC406	0IKE780500Q	IC, KIA7805API 3P TO-220 ST
IC1105	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223	IC407	0IPRPA007A	IC, RC1117S25T FAIRCHILD SOT-223
IC1106	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223	IC407	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC1107	0IPRML001B	IC, MIC29152 MICREL 5P TO-263	IC408	0IMCRKE008A	IC, KIA78D33F KEC 3P DPAK R/TP 3.3V
IC120	0ISJ111733A	IC, EZ1117CST-3.3 3P,SOT-223 TP 3.3V	IC409	0IMCRFA015A	IC, KA7805R FAIRCHILD 2P D-PAK R/TP 500MA
IC1200	0IMCRSO008A	IC, CXA2151Q SONY 48P QFP TRAY 60LCD	IC410	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR
IC1200	0IPRML001A	IC, MIC39100 MICREL 3P SOT223	IC411	0IKE780800J	IC, KIA7808API 3 ST REGULATOR
IC1202	0IMCRSB010A	IC, L3E07050K0A SEIKO EPSON 176QFP	IC412	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC1202	0IMO744053B	IC, MC74HC4053DW 16SOP 3*2CH.MUX	IC413	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC1203	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223 R/TP	IC414	0ISH302122A	IC, PQ30RV21 TO-220
IC1300	0IMO324000C	IC, LM324D SO-14 TP OP AMP	IC415	0ITK118100B	IC, TK11840L 8P SOT23L R/TP
IC1301	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO	IC5	0IMX811000A	IC, MAX811REUT-T 128QFP BK RESET DI-32Q82
IC1302	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	IC601	0IMCRMN001C	IC, MSP3411G QA B8 V3 MICRONAS 80P QFP
IC1303	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	IC602	0IFA753307A	IC, KA75330ZTA(KA7533ZTA) 3P,TO-92 TP 3.3V
IC1304	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP	IC603	0ISS455880A	IC, KA4558D 8SOP OP AMP
IC1305	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223	IC801B	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC1400	0IMO324000C	IC, LM324D SO-14 TP OP AMP	IC802B	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC1401	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO	IC811	0IMCRON002A	IC, MC33262P ON SEMI 8P DIP ST
IC1402	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	IC820	0ISK666813A	IC, STR-F6668B(LF1352) 5PIN BK STR FD-60X3R
IC1403	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	IC831	0ISK615311B	IC, STR-G6153T(LF1101) 5PIN BK STR HN-61A40R
IC1404	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP	IC832	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC1405	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223	IC841	0ISH817300B	IC, PC817XF3 4D PHOTO COUPLER
IC1500	0IMO324000C	IC, LM324D SO-14 TP OP AMP	IC845	0ISS781200H	IC, KA78R12 4P,TO-220F BK LOW DROP 12V
IC1501	0IMCRET001A	IC, EL2244CS ELANTEC 8P SO	IC851	0IMO257633A	IC, LM2576TV-3.3 5PIN ST REGULATOR HN-61A40R
IC1502	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	Q111	0IFA270000A	IC, 2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
IC1503	0IMCRSB009A	IC, L3E06070D0A SEIKO EPSON 48QFP	Q112	0IFA270000A	IC, 2N7000TA TO-92, 3P TP LEVEL SHIFT 60V/0.2A
IC1504	0IMCRSB008A	IC, L3E01031F0A SEIKO EPSON 48QFP	T110	0IZZVF0022B	IC, AMF730F6M00X2(AF-9397) 15P SIP ST
IC1505	0IPRPA006A	IC, RC1117S33T FAIRCHILD SOT-223	DIODE		
IC1601	0ISA428200A	IC, LA4282 12S 2CHX10W AUDIO AMP	D01	0DL200000CA	LED SAM5670(DL-2LRG) BK Y-GREEN
IC1602	0IKE780500Q	IC, KIA7805API 3P TO-220	D02	0DL200000CA	LED SAM5670(DL-2LRG) BK Y-GREEN
IC2	0ISS610082A	IC, K6T1008V2E-TB(F)70 [K6T1008BLT-7L]	D03	0DL200000CA	LED SAM5670(DL-2LRG) BK Y-GREEN
IC208	0ISO206900A	IC, CXA2069Q QFP64 BK I2C BUS AV S/W	D1	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC3	6620VF3201A	IC, 822473-3 AMP 32PIN 2.54MM NIKEL PLCC	D100	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC301	0ICTMLG003C	IC, LGDT1502M LG IC 304P QFP	D101	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC301	0ISO211900A	IC, CXA2119M 28P,SOP TP VIDEO SWITCHING	D102	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC302	0INA562300A	IC, CLC5623IMX 14P,SOP TP AMP	D1200	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC302	0ITI740000Q	IC, SN74LVC00AD 14SOP R/TP LOGIC D-TV	D1602	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
IC303	0ITI740000Q	IC, SN74LVC00AD 14SOP R/TP LOGIC D-TV	D1603	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
			D1605	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP

LOCA. NO	PART NO	DESCRIPTION
D2	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D200	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D201	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D3	0DD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
D300	0DL112100AA	LED SR3411(DL-11S2RN1) BK RED
D4	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D400	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D402	0DR050008AA	DIODE,RECTIFIERS SD05.SOD323 5V 5A 15A
D402	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D403	0DR050008AA	DIODE,RECTIFIERS SD05.SOD323 5V 5A 15A
D403	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D404	0DR050008AA	DIODE,RECTIFIERS SD05.SOD323 5V 5A 15A
D404	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D404	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D405	0DR050008AA	DIODE,RECTIFIERS SD05. SOD323 5V 5A 15A
D406	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D410	0DRSE00038A	DIODE,RECTIFIERS SDC15 SOT23 12.8V 10A
D411	0DRSE00038A	DIODE,RECTIFIERS SDC15 SOT23 12.8V 10A
D431	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D432	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D433	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D434	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D435	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D437	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D5	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D500	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D501	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D6	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D601	0DD226239AA	DIODE,SWITCHING CHIP KDS226 SOT-23
D602	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D7	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D8	0DD184009AA	DIODE,SWITCHING KDS184S 85V 300MA KEC TP
D801	0DD606000AA	DIODE,RECTIFIERS BK NA 600V 6A 150A NA 10UA
D810	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D820	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D821	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D822	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D832	0DR010009AA	DIODE,RECTIFIERS 1000V 0.5A 10A 100NSEC 50UA
D833	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP SANKEN
D834	0DD260000BB	DIODE,RECTIFIERS BRIDGE D2SBA60(STK)
D841	0DD120000BB	DIODE,RECTIFIERS FML-G12S
D845	0DD414809ED	DIODE,SWITCHING 1N4148 TP GRANDE
D851	0DD120000BB	DIODE, RECTIFIERS FML-G12S
D852	0DR460009AA	DIODE, RECTIFIERS RK46 DO-214AC 60V 3.5A
D861	0DD120000BB	DIODE, RECTIFIERS FML-G12S
D871	0DD120000BB	DIODE, RECTIFIERS FML-G12S
D881	0DD100009AP	DIODE, RECTIFIERS EG1ZV(1) TP SANKEN TP
Q810	0DR260001AA	DIODE, RECTIFIERS TO220 600V 6A 50A
ZD01	0DR050008AA	DIODE, RECTIFIERS SD05. SOD323 5V 5A 15A
ZD1	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD10	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD11	0DR050008AA	DIODE,RECTIFIERS SOD323 5V 5A 15A

LOCA. NO	PART NO	DESCRIPTION
ZD12	0DR050008AA	DIODE, RECTIFIERS SOD323 5V 5A 15A
ZD2	0DZ620009BB	DIODE, 2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD3	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD4	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD5	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD6	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD841	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD851	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
ZD9	0DZ620009BB	DIODE, TP ROHM-K DO34 0.5W 6.2V 5UA
TRANSISTOR		
IC202	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
IC203	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
Q01	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q02	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q03	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q04	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q05	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q06	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q10	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q106	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q109	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q115	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q115	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
Q116	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q116	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
Q1200	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1201	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1202	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1203	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1204	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1205	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1206	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1207	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1208	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC

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

LOCA. NO	PART NO	DESCRIPTION
Q1209	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1210	0TR102009AG	TR, CHIP KRC102S KEC TP SOT-23 NA NA
Q1211	0TR127009AA	TR, KEC TP TO92 50V 100MA
Q1212	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1213	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1214	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1215	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1216	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1216	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1217	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1218	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1219	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1221	0TR102009AG	TR, CHIP KRC102S KEC TP SOT-23 NA NA
Q1222	0TR127009AA	TR, KTA1270-Y(KTA562TM) TP TO92 50V 100MA
Q1223	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1230	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q1232	0TR102009AG	TR, CHIP KRC102S KEC TP SOT-23 NA NA
Q1235	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1236	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1601	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q201	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q202	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q203	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q204	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q205	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q206	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q207	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q208	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q209	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q210	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q213	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q3	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q301	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q302	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q304	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q350	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q351	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q400	0TRKE80038A	TR, KTC3552T-RTK KEC R/TP SOT-23F 50V 3A
Q501	0TR102009AG	TR, CHIP KRC102S KEC TP SOT-23 NA NA
Q510	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q511	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q601	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q602	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q810	0TF283700AA	TR, 2SK2837 BK TOSHIBA 500V 20A TO3P
Q841	0TR945009AA	TR, KSC945C-Y SAMSUNG TP TO92 50V 150MA
Q842	0TR322709AA	TR, KTC3227-Y,TP(KTC1627A),KEC
Q851	0TR945009AA	TR, KSC945C-Y SAMSUNG TP TO92 50V 150MA
CAPACITOR		
C01	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C07	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD

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

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
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
C1250	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C1251	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C1252	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C126	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1260	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C127	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1301	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1305	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1308	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1309	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1310	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1311	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1313	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1319	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1320	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1321	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1322	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1324	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1325	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1330	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1335	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1336	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1340	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1341	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C139	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1401	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1405	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1408	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1409	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1410	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1411	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1413	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1419	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1420	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1421	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1422	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1424	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1425	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1429	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1435	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1436	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1441	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C147	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C148	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C1501	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1505	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1508	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C1509	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
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
C158	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C159	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C1601	0CE107DH618	100UF STD 25V M FL TP5
C1602	0CE106DK618	10UF STD 50V M FL TP5
C1603	0CE107DH618	100UF STD 25V M FL TP5
C1604	0CE106DK618	10UF STD 50V M FL TP5
C1605	0CE107DH618	100UF STD 25V M FL TP5
C1606	0CE106DF618	10UF STD 16V M FL TP5
C1607	0CE108DK61A	1000UF STD 50V M FL TP7.5
C1608	0CE106DF618	10UF STD 16V M FL TP5
C1609	0CE106DF618	10UF STD 16V M FL TP5
C1610	0CE108DJ618	1000UF STD 35V M FL TP5
C1611	0CE108DJ618	1000UF STD 35V M FL TP5
C1612	0CQ6821N509	0.0068U 100V K POLY TP
C1613	0CQ6821N509	0.0068U 100V K POLY TP
C1614	0CE226DF618	22UF STD 16V M FL TP5
C1615	0CE108DF618	1000UF STD 16V M FL TP5
C1616	0CQ1041N509	0.1U 100V K POLY TP
C1618	0CQ1041N509	0.1U 100V K POLY TP
C1620	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) SMD
C1621	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C1630	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1631	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C168	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C172	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C173	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C175	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C183	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C185	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C186	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C187	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

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

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C198	0CE226SF6DC	22UF MVG 16V M SMD R/TP	C314	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C2	0CN1030F679	10000P 16V M Y TA52	C315	0CE107DF618	100UF STD 16V M FL TP5
C2	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C316	0CE106DF618	10UF STD 16V M FL TP5
C200	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C359	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C201	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C362	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C202	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C371	0CE336SC6DC	33UF MVG 6.3V M SMD R/TP
C203	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C372	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C204	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C401	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C205	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C402	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C206	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C403	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C207	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C403	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C207	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C404	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C208	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C405	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C209	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD	C406	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C210	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C406	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C211	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C407	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C211	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C408	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C212	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C409	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C212	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C410	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C213	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C411	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C214	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C411	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C215	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C412	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C215	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C412	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C216	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C417	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C216	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C426	0CE477DD618	470UF STD 10V M FL TP5
C217	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C427	0CE227BF618	220UF KME 16V M FL TP5
C219	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C428	0CE227DD618	220UF STD 10V M FL TP5
C220	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C429	0CE227BH618	220UF KME 25V M FL TP5
C224	0CE476SF6DC	47UF MVG 16V M SMD R/TP	C430	0CE477DF618	470UF STD 16V 20% FL TP 5
C224	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C433	0CE107DD618	100UF STD 10V M FL TP5
C225	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C434	0CE107BF618	100UF KME 16V M FL TP5
C226	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C435	0CE107DD618	100UF STD 10V M FL TP5
C227	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C436	0CE107DF618	100UF STD 16V M FL TP5
C232	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)	C437	0CE107DD618	100UF STD 10V M FL TP5
C232	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C450	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C234	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD	C453	0CE107BF618	100UF KME 16V M FL TP5
C235	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C456	0CE477DH618	470UF STD 25V M FL TP5
C236	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C456	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C237	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R	C456	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C238	0CE476SF6DC	47UF MVG 16V M SMD R/TP	C5	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C240	0CE476SF6DC	47UF MVG 16V M SMD R/TP	C505	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C249	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C506	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C260	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C507	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C261	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C507	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C262	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD	C508	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C274	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD	C508	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C290	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD	C509	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C3	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C509	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C301	0CE106DF618	10UF STD 16V M FL TP5	C510	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C302	0CE106DF618	10UF STD 16V M FL TP5	C511	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C31	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD	C512	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C312	0CE226SF6DC	22UF MVG 16V M SMD R/TP	C513	0CE336DF618	33UF STD 16V M FL TP5

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LOCA. NO	PART NO	DESCRIPTION
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
C616	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C617	0CE106VF6DC	10UF 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)
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 MATSUSHITA
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	DE1010 B KD 471M
C833	0CE476BK618	47UF KME 50V M FL TP5
C834	0CE476BK618	47UF KME 50V M FL TP5
C835	181-010K	PP 0.01UF 630V 5% FM 7.5MM
C836	0CE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK
C837	0CK1030K945	0.01UF 50V Z F TR
C841	0CE108BF618	1000UF KME 16V M FL TP5
C842	0CE107BF618	100UF KME 16V M FL TP5
C843	0CK1040K945	0.1UF 50V Z F TR
C845	0CE476BK618	47UF KME 50V M FL TP5
C852	0CE228BH61A	2200UF KME 25V M FL TP7.5
C853	0CE108BF618	1000UF KME 16V M FL TP5
C855	0CE228BF618	2200UF KME 16V M FL TP5
C856	0CK1040K945	0.1UF 50V Z F TR
C857	0CE108BF618	1000UF KME 16V M FL TP5
C859	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5

LOCA. NO	PART NO	DESCRIPTION
C862	0CE228BH61A	2200UF KME 25V M FL TP7.5
C863	0CE108BF618	1000UF KME 16V M FL TP5
C865	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C866	0CE105CK636	1UF SHL,SD 50V M FM5 BP(D) TP
C873	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C876	0CE337DK618	330UF STD 50V M FL TP5
C881	0CE477BJ618	470UF KME TYPE 35V 20% FL TP 5
C883	0CE227BH618	220UF KME 25V M FL TP5
C884	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C886	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C9	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
JACK		
JA1201	6613V00013D	JACK ASSY A/V 9P(MONO 7P + S/W 2P)
JA1202	6612VJH006B	JACK,RCA PJ6061D PARK ELEC. HORIZONTAL 2*3 6P
JA201	6613V00010B	JACK ASSY A/V 3P + S-VHS (RD WH YL)
JA202	6612JH003FA	JACK,RCA PPJ136A RN-52SZ10H,RE-44SZ20
JA204	380-404A	JACK,DIN PHSJ-9504 HOSIDEN .
P101B	6612VMH003A	JACK,SCART 36510-0032 MOLEX 48PIN PITCH2.54MM
P102B	6612VMH003A	JACK,SCART 36510-0032 MOLEX 48PIN PITCH2.54MM
P103B	6612VMH003A	JACK,SCART 36510-0032 MOLEX 48PIN PITCH2.54MM
P1100	6612BBBH6A	JACK,DIN 440062-1 AMP DVI INTERACED RIGHT ANGLE
P401B	6612VMH003A	JACK,SCART 36510-0032 MOLEX 48PIN PITCH2.54MM
P402B	6612VMH003A	JACK,SCART 36510-0032 MOLEX 48PIN PITCH2.54MM
P403	6612BBBH6A	JACK,DIN 440062-1 AMP DVI INTERACED RIGHT ANGLE
COIL		
AT1301	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1302	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1303	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1304	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1305	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1306	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1307	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1401	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1402	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1403	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1404	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1405	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1406	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1407	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1501	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1502	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1503	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1504	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1505	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1506	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
AT1507	0LCCE00018A	INDUCTOR, HB-4M3216-301J 100MHZ 300OHM
L01	0LC3332101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L02	0LC3332101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L03	0LC3332101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L1	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP

LOCA. NO	PART NO	DESCRIPTION
L101	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L102	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
L1100	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1101	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1102	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1103	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1104	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1105	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1107	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L111	0LC6832101A	INDUCTOR, 6.8UH 10% 3216 R/TC FI-C3216-682KJT
L114	0LC6832101A	INDUCTOR, 6.8UH 10% 3216 R/TC FI-C3216-682KJT
L120	0LC0233002A	INDUCTOR, 3.3UH CERATECH R/TP
L1200	6140VB0003A	COIL,CHOKE 4.7UH .PHY .TURN
L1200	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L1201	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L1203	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L1204	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
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, 22UH 10% 3216 R/TC FI-D3216-223KJT
L1208	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L202	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L203	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L205	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L206	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L208	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L209	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L211	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L212	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L213	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L214	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L3	0LC1032101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L302	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L350	0LC0233002A	INDUCTOR, 3.3UH CERATECH R/TP
L351	0LC2232101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L4	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L400	0LC6461201A	INDUCTOR, TOKO R/TP
L401	0LC2220101A	INDUCTOR, 22UH 10% 3216 R/TC FI-D3216-223KJT
L402	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,CHOKE 82UH PHY TURN
L851	150-C02F	COIL,CHOKE 82UH PHY TURN
L852	6170VZ0005A	TRANSFORMER, 15 120UH LM2576,ND00GA

LOCA. NO	PART NO	DESCRIPTION
L853	150-C02F	COIL,CHOKE 82UH PHY TURN
L861	150-C02F	COIL,CHOKE 82UH PHY TURN
L871	150-C02F	COIL,CHOKE 82UH PHY TURN
L881	150-C02F	COIL,CHOKE 82UH PHY TURN
L9	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
T1301	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1302	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1303	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1304	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1401	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1402	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1403	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1404	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1501	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1502	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1503	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T1504	0LCCE00017A	INDUCTOR, HD-1M2012-301J 100MHZ 300OHM
T801	6170VMCA03D	TRANSFORMER,SMPS EER4942 1200UH STR-F6669
T810	6170VMCA37B	TRANSFORMER,SMPS PQ3535 310UH
T830	6170VS0001B	TRANSFORMER,SMPS EE1927 2200UH
CONNECTOR		
JA1200	6630VGA001B	CONNECTOR, 68114-1522 MOLEX-KOR 15PIN 2.29MM
P001A	6602V12001D	CONNECTOR, 1.25MM 10P 53261-1090 J-MOLEX
P001B	366-169J	CONNECTOR, WAFER 2MM,10PIN,GIL-S
P001C	366-169J	CONNECTOR, WAFER 2MM,10PIN,GIL-S
P002A	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390 J-MOLEX
P003A	6602V12001G	CONNECTOR, 1.25MM 8PINP 53261-0890 JPN-MOLEX
P003B	6602V12001G	CONNECTOR, 1.25MM 8PINP 53261-0890 JPN-MOLEX
P003B	366-169G	CONNECTOR, 2.0MM 8P GIL-S LG CABLE S
P003C	366-169G	CONNECTOR, 2.0MM 8P GIL-S LG CABLE S
P005A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
P1	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390 J-MOLEX
P101A	6932V25004A	CONNECTOR, 36512-0098 MALE MOLEX 48 2.54 D-TV
P102A	6932V25004A	CONNECTOR, 36512-0098 MALE MOLEX 48 2.54 D-TV
P103A	6932V25004A	CONNECTOR, 36512-0098 MALE MOLEX 48 2.54 D-TV
P110	366-043A	CONNECTOR, ASSY,PLUG(1P)
P1101	6602V12001D	CONNECTOR, 1.25MM 10P 53261-1090 J-MOLEX
P1102	6630V800208	CONNECTOR, 794636-8 AMP 8P 3.0MM
P111	366-043A	CONNECTOR, ASSY,PLUG(1P)
P1300	6630VZS001C	CONNECTOR, 54104-3692 MOLEX 36PIN
P1400	6630VZS001C	CONNECTOR, 54104-3692 MOLEX 36PIN
P1500	6630VZS001C	CONNECTOR, 54104-3692 MOLEX 36PIN
P1600	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
P1601	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
P2	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390 J-MOLEX
P201A	6932V25004A	CONNECTOR, 36512-0098 MALE MOLEX 48 2.54 D-TV
P202A	6932V25004A	CONNECTOR, 36512-0098 MALE MOLEX 48 2.54 D-TV
P204B	366-922L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE R/A
P301	366-921F	CONNECTOR, 2.5MM 7P GIL-G LG CABLE.
P4	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390 J-MOLEX
P400	6630V800108	CONNECTOR, 794680-8 AMP 8P 3.0MM

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
P401	366-922E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE R/A
P402	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE.
P403	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S
P404	6630VGA004A	CONNECTOR, 68107-0922 MOLEX 9PIN 2.77MM ANGLE GOLD
P5	6602V12001A	CONNECTOR, 1.25MM 2P 53261-0290 J-MOLEX
P500	366-043A	CONNECTOR, ASSY,PLUG(1P)
P5B	6602V12001D	CONNECTOR, 1.25MM 10P 53261-1090 J-MOLEX
P601A	366-932L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE S
P8	6602V12001A	CONNECTOR, 1.25MM 2P 53261-0290 J-MOLEX
P801B	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
P804B	366-169B	CONNECTOR, WAFER 2MM,3PIN,GIL-S
P805	6631V23001J	CONNECTOR, 2P 10.0MM 250MM H-H UL1617 AWG22
P805A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805B	366-169B	CONNECTOR, WAFER 2MM,3PIN,GIL-S
P805B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P806A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P806B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P810	6602V39002A	CONNECTOR, 3.96MM 2P YW396-03AV
P815	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
P821	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P821A	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE.
P822	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P822A	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S
P841	366-932E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE S

RESISTOR

AR100	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR101	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR102	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR103	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR104	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR105	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR106	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR1100	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1200	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1201	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1202	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1203	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1204	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1205	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1206	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1207	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1208	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES

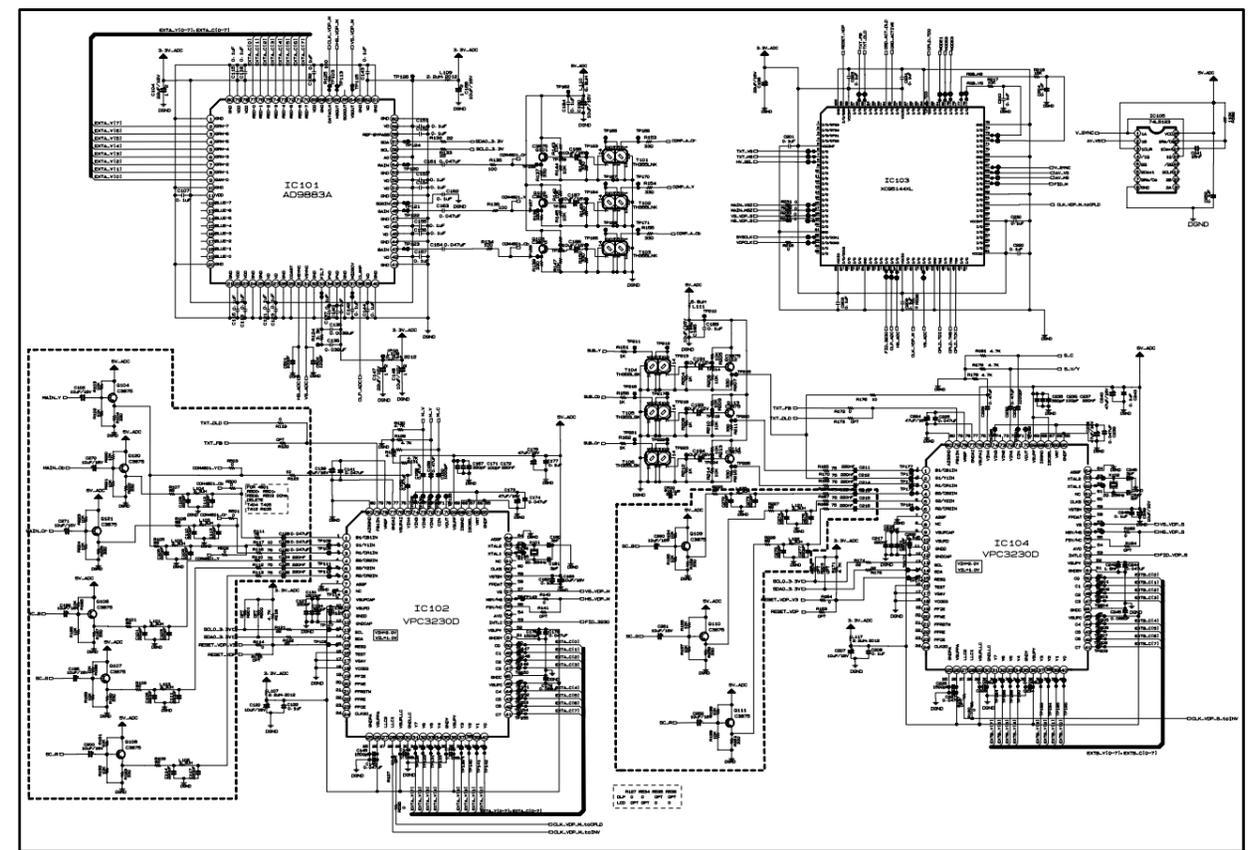
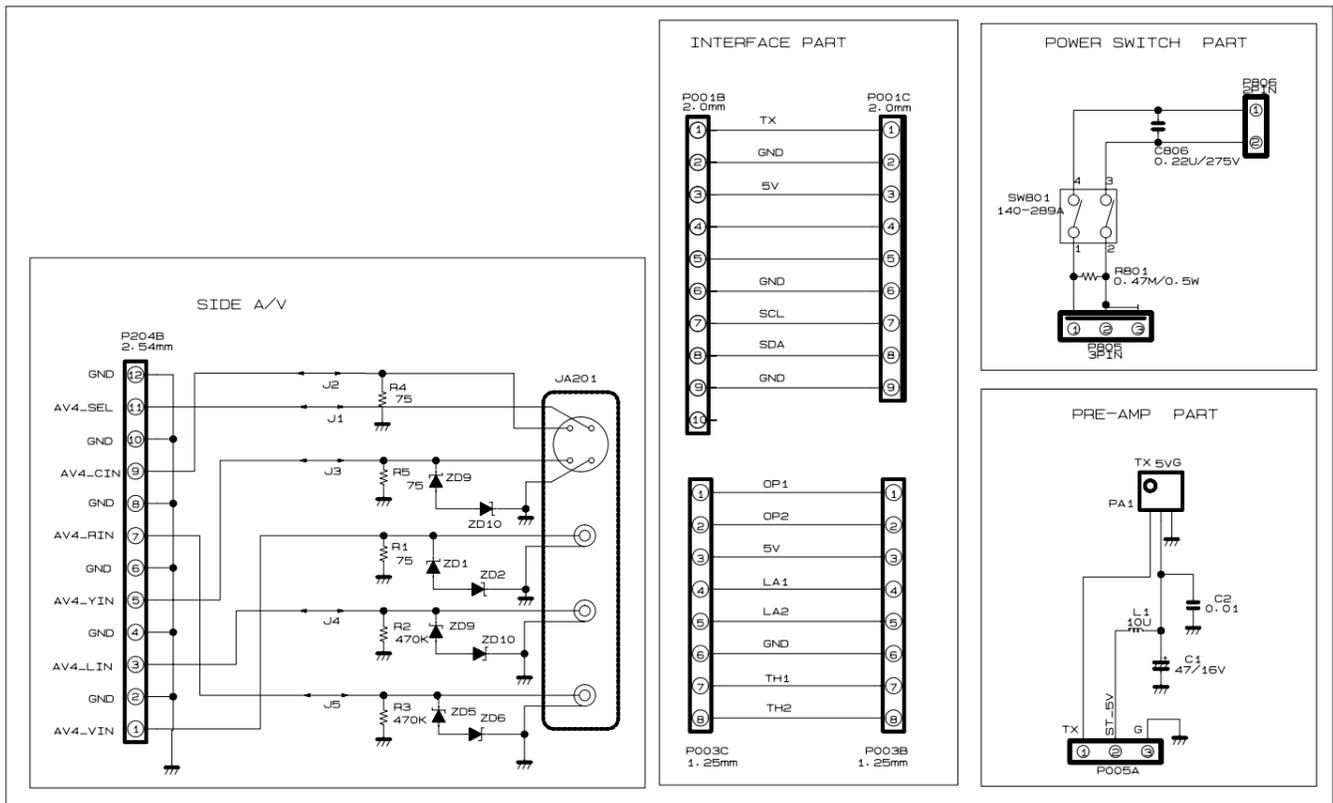
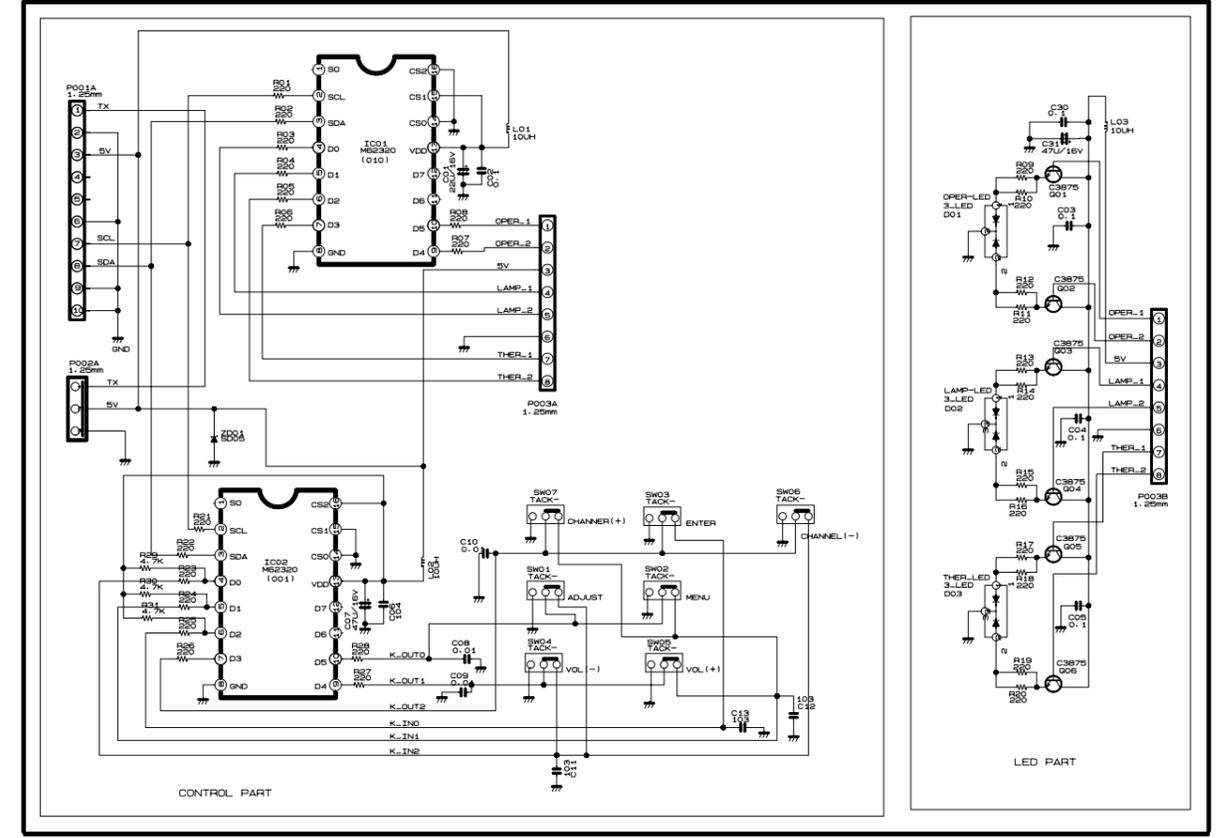
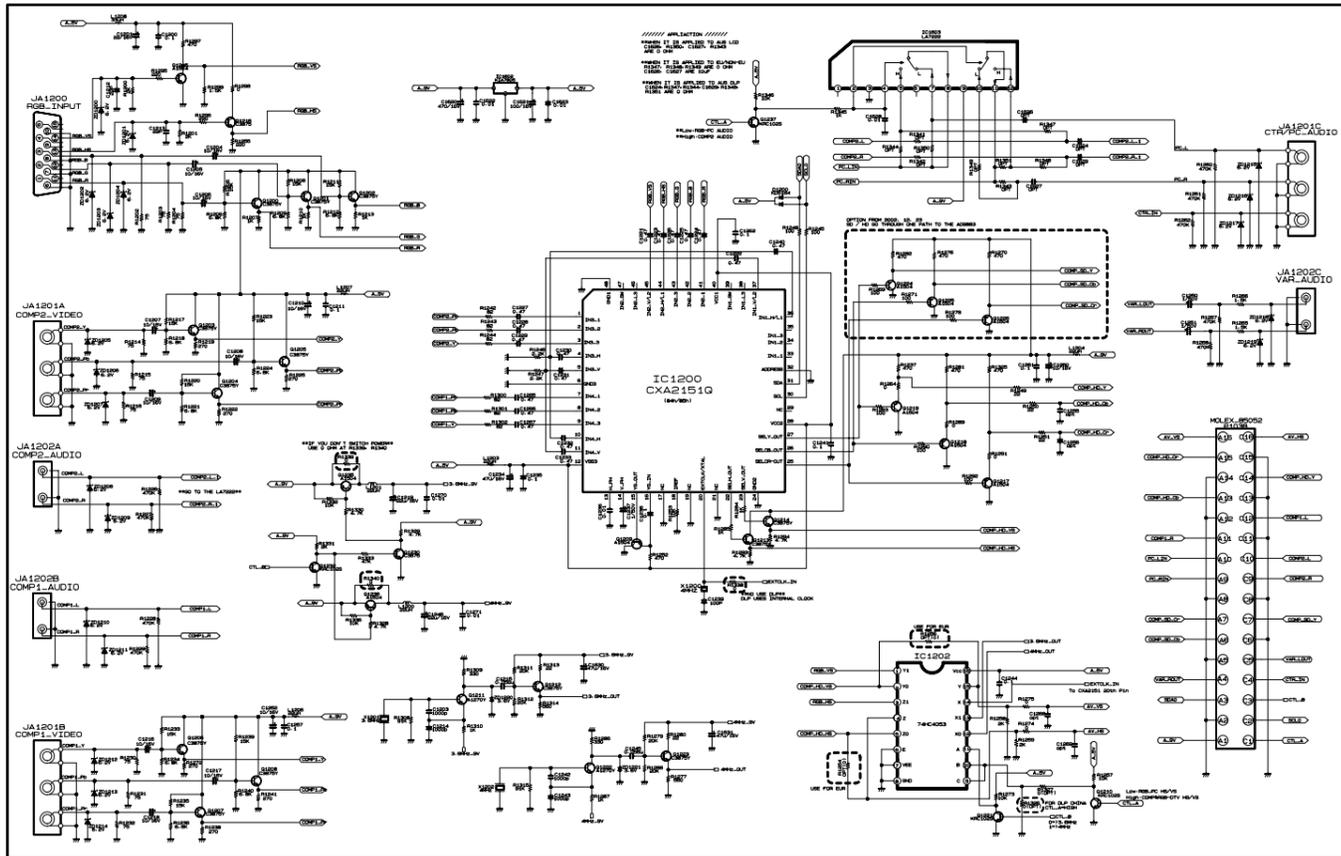
LOCA. NO	PART NO	DESCRIPTION
AR1209	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1210	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1211	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1212	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1213	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1214	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1215	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1216	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR1217	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR301	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR302	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR303	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR304	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR305	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR306	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
D812	0RD0302F609	30 OHM 1/6 W 5.00% TA52
R1	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R104	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R106	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R1253	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R1606	0RF0331H609	3.3 OHM 1/2 W 5.00% TA52
R1609	0RF0331H609	3.3 OHM 1/2 W 5.00% TA52
R1615	0RS2201K607	2.2K OHM 2 W 5.00% TA62
R1616	0RS2201K607	2.2K OHM 2 W 5.00% TA62
R2	0RD4703F609	470K OHM 1/6 W 5.00% TA52
R3	0RD4703F609	470K OHM 1/6 W 5.00% TA52
R4	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R402	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R409	0RN2001F409	2K OHM 1/6 W 1.00% TA52
R425	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R426	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R5	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R801	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R801B	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R802B	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R803	0RN3903F409	390K 1/6W 1% TA52
R803B	0RD0562H609	56 OHM 1/2 W 5.00% TA52
R805	0RN3303F409	330K OHM 1/6 W 1.00% TA52
R805B	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R806	0RN3903F409	390K 1/6W 1% TA52
R807	0RN3903F409	390K 1/6W 1% TA52
R808	0RD2402H609	24K OHM 1/2 W 5.00% TA52
R809	0RD0302F609	30 OHM 1/6 W 5.00% TA52
R810	0RD0562H609	56 OHM 1/2 W 5.00% TA52
R811	180-A01B	RW ROUND G 2W 0.11 K TA31(63)
R812	0RN3903F409	390K 1/6W 1% TA52
R813	0RN3903F409	390K 1/6W 1% TA52
R814	0RN3903F409	390K 1/6W 1% TA52
R815	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R816	0RD2202F609	22K OHM 1/6 W 5% TA52
R817	0RD1202F609	12K OHM 1/6 W 5% TA52
R818	0RD2200F609	220 OHM 1/6 W 5.00% TA52

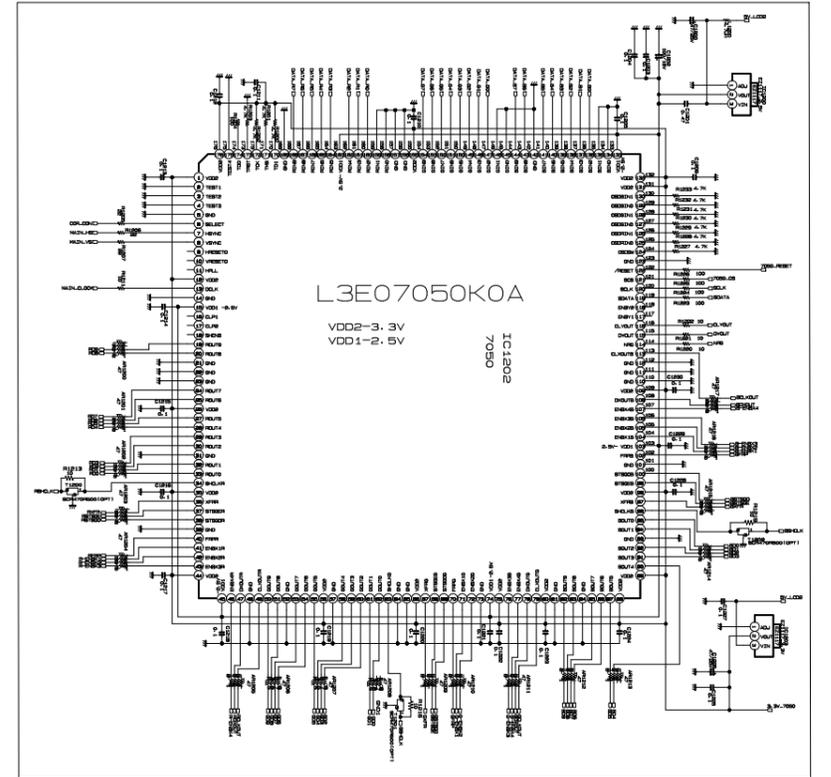
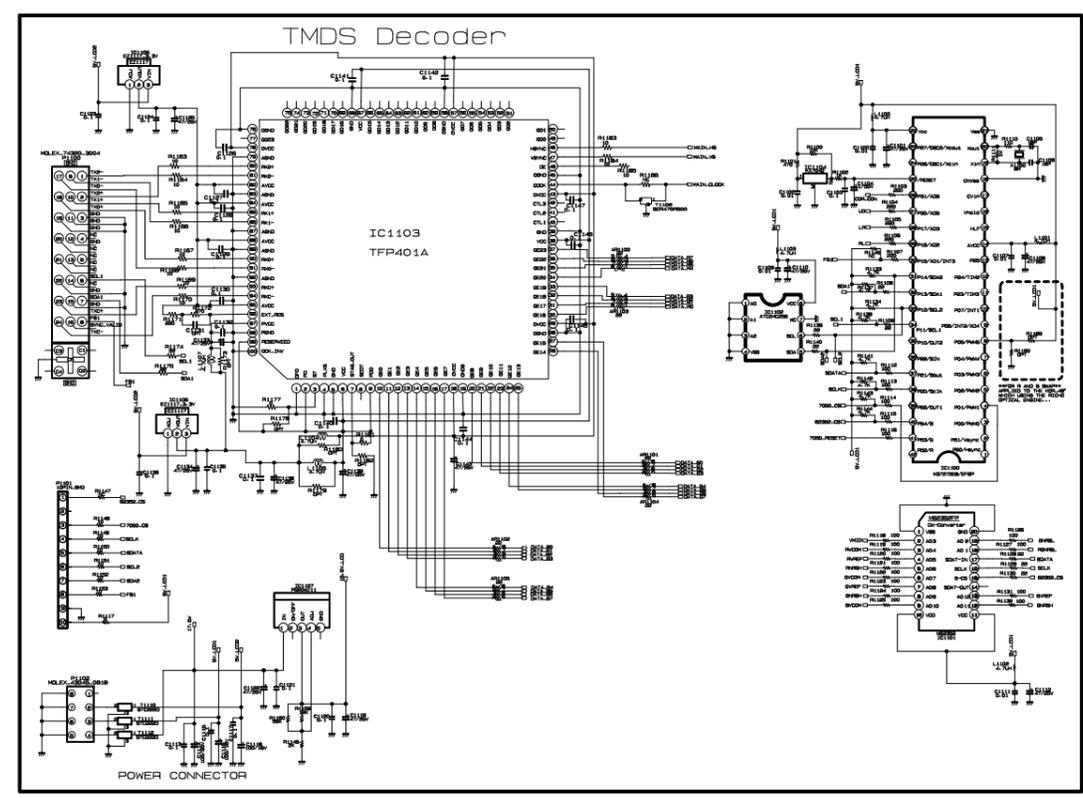
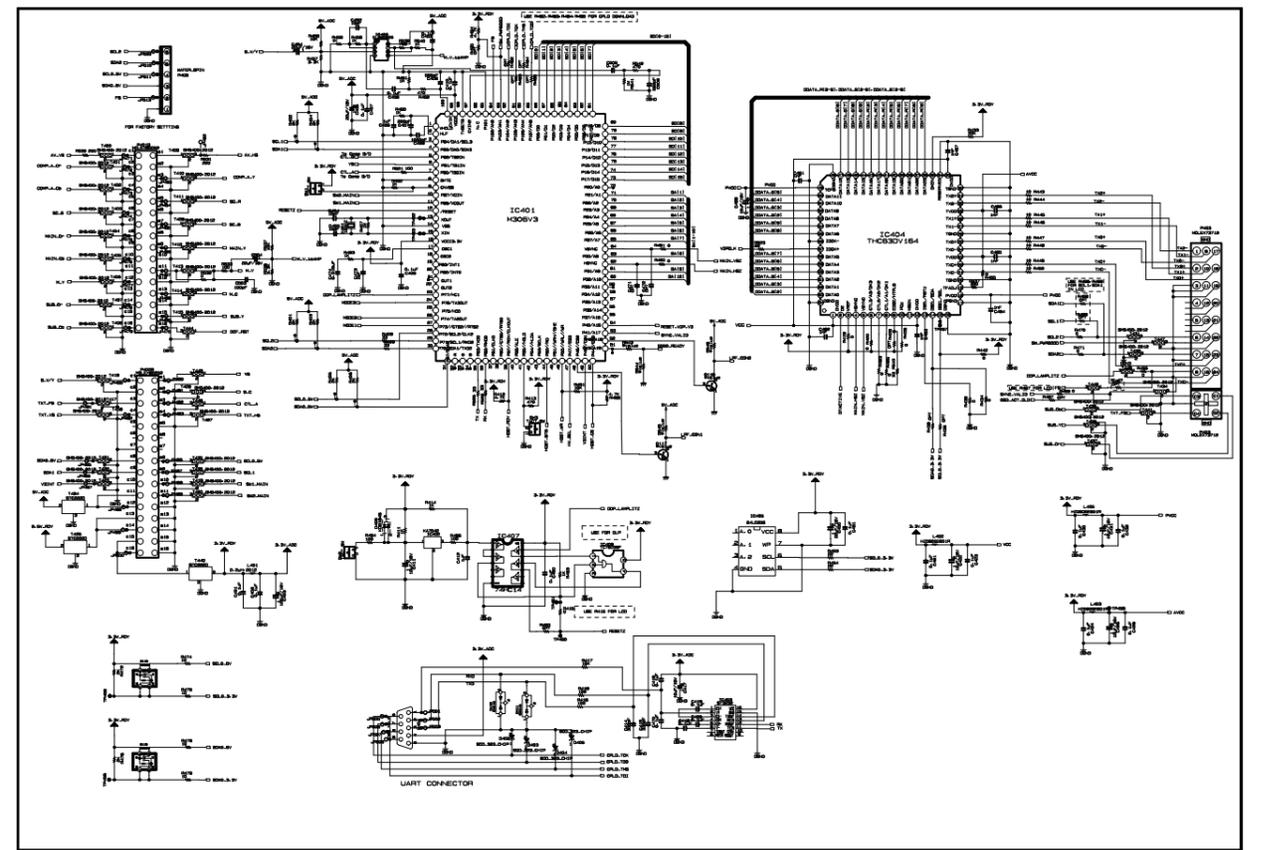
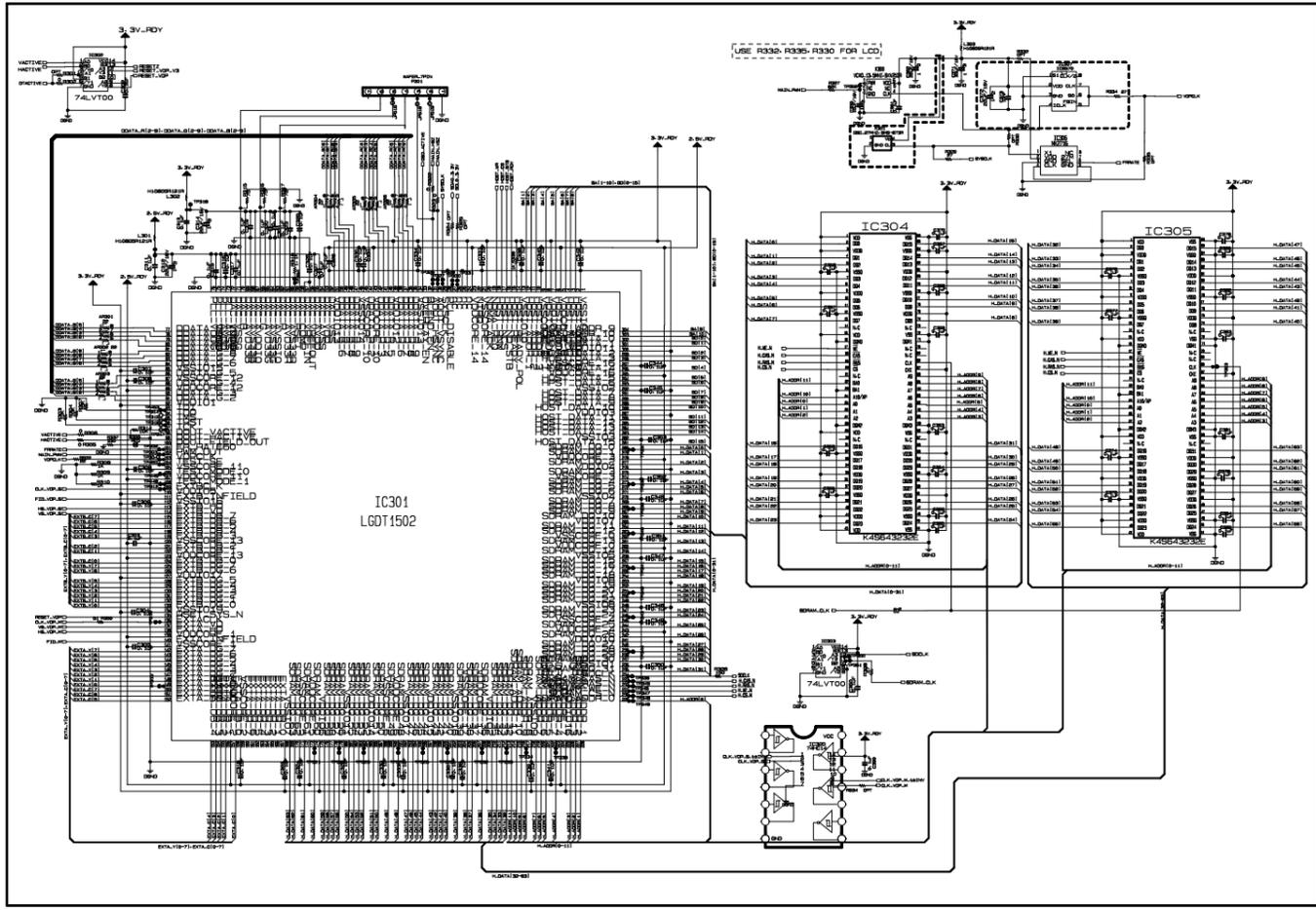
For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

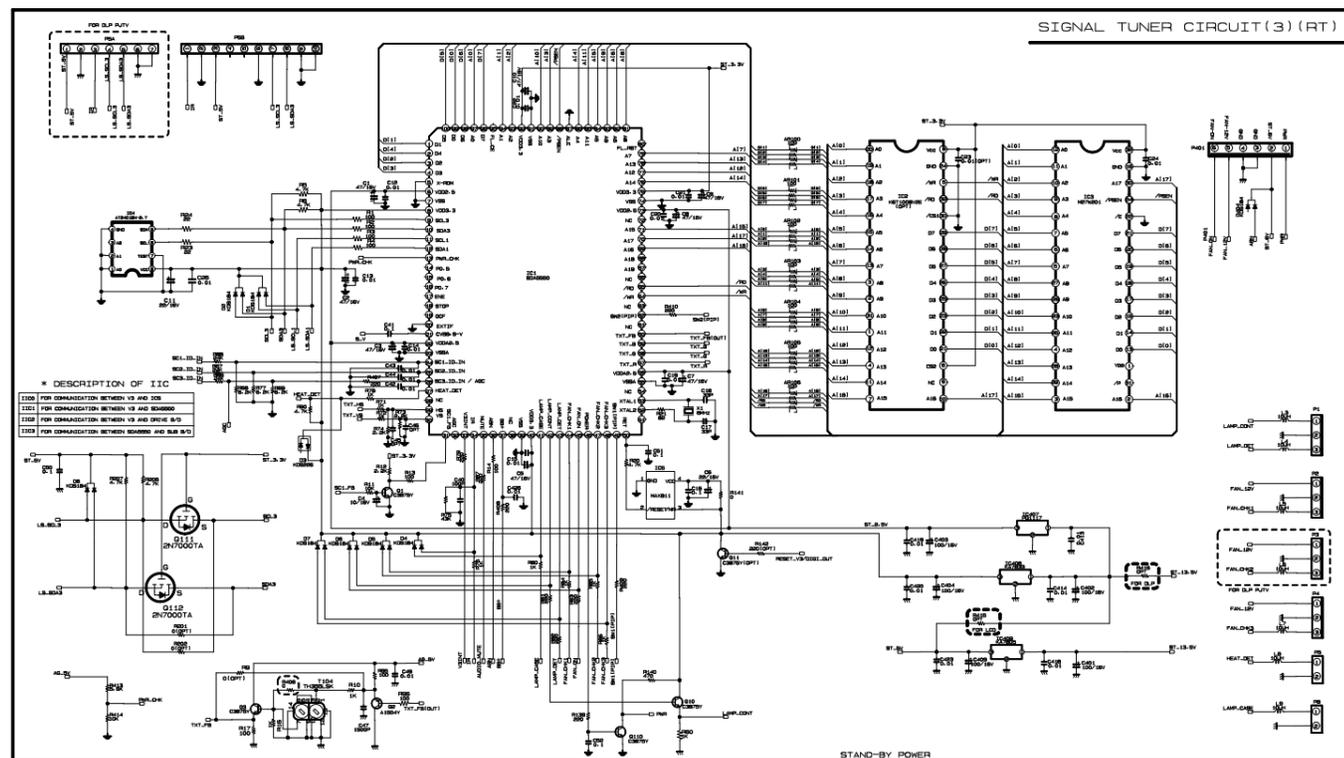
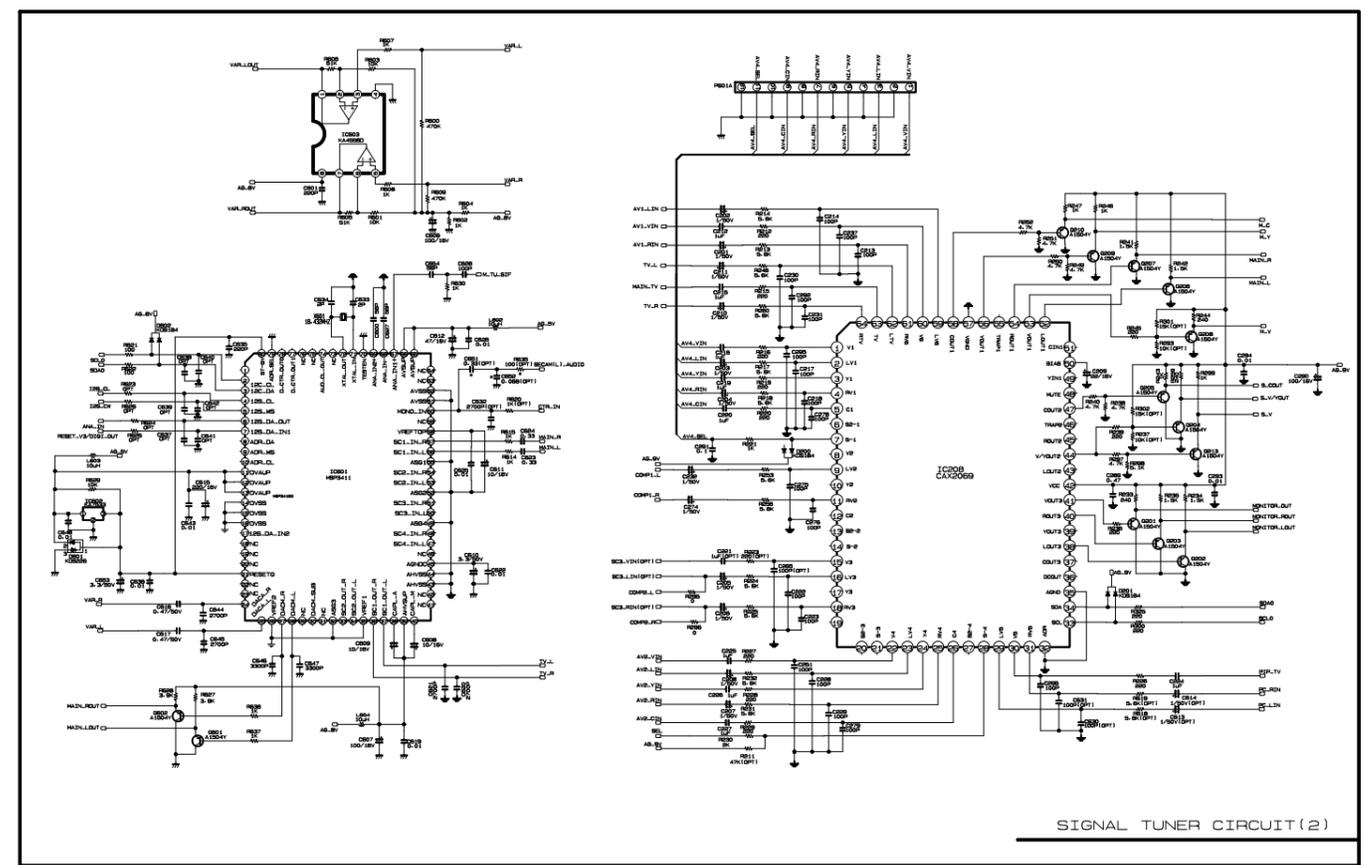
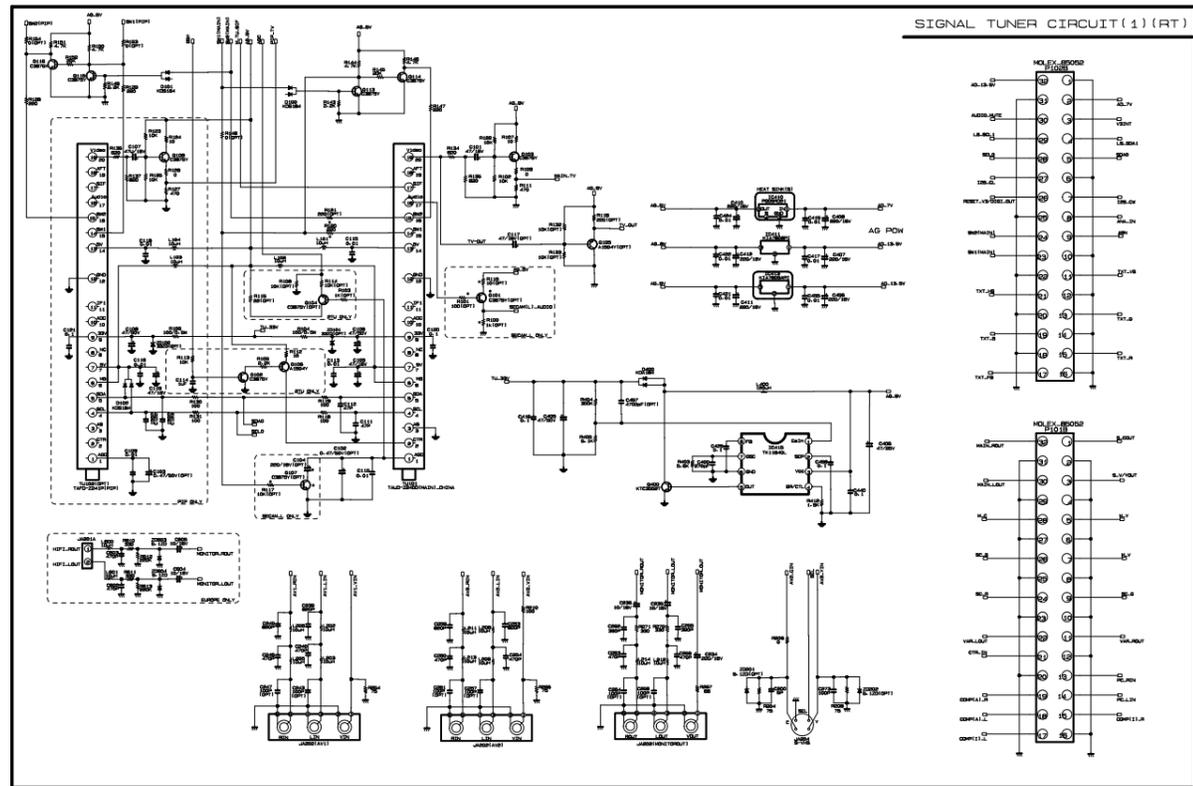
CC, CX, CK, CN : Ceramic	RD : Carbon Film
CQ : Polyester	RS : Metal Oxide Film
CE : Electrolytic	RN : Metal Film
	RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R819	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R820	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R821	180-A01M	0.22 OHM 2 W 5% TA62 RW ROUND
R822	0RD1001F609	1K OHM 1/6 W 5% TA52
R823	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R824	0RD0332H609	33 OHM 1/2 W 5.00% TA52
R825	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R826	0RS2202K607	22K OHM 2 W 5.00% TA62
R827	0RS2202K607	22K OHM 2 W 5.00% TA62
R829	0RKZVTA001D	10M OHM 1/2 W 5% TA52 UL PILKOR
R831	0RS4702K607	47K OHM 2 W 5.00% TA62
R833	0RS0161K607	1.6 OHM 2 W 5.00% TA62
R834	0RS1203K607	120K OHM 2 W 5.00% TA62
R835	0RF0221H609	2.2 OHM 1/2 W 5.00% TA52
R836	0RD1502F609	15K OHM 1/6 W 5.00% TA52
R840	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R841	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R842	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R843	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R844	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R845	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R851	0RD2401F609	2.4K OHM 1/6 W 5.00% TA52
R852	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R853	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R854	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R855	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R857	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R871	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R90	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
SWITCH		
SW01	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW02	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW03	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW04	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW05	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW06	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW07	140-315A	SWITCH, TACT SKHV17910B LG C&D NON 12V
SW2	140-313A	SWITCH, TACT 2LEAD 100G(TA) LG C&D NON
SW801	140-289A	SWITCH,PUSH POWER SDDF3PASP013 LG C&D UL/C
FILTER & CRYSTAL		
FB819	125-123A	FILTER FERRITE BFD3565R2F(TAPING)
FB820	125-022K	FILTER FERRITE 1UH TAPING
FB821	125-022K	FILTER FERRITE 1UH TAPING
FB822	125-022K	FILTER FERRITE 1UH TAPING
FB861	125-123A	FILTER FERRITE BFD3565R2F(TAPING)
FB871	125-123A	FILTER FERRITE BFD3565R2F(TAPING)
FB872	125-123A	FILTER FERRITE BFD3565R2F(TAPING)
L801	150-F06T	FILTER SQE3535 20MH PHY TURN
L802	150-F06T	FILTER SQE3535 20MH PHY TURN
L803	150-F06T	FILTER SQE3535 20MH PHY TURN

LOCA. NO	PART NO	DESCRIPTION
L804	150-F06T	FILTER SQE3535 20MH PHY TURN
T104	6200C000012	FILTER TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T105	6200C000012	FILTER TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T106	6200C000012	FILTER TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T1102	6200JB8009Q	FILTER SCR470R220 NIIGATA R/TP RN52NZ10H
T1110	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T1111	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T1112	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T250	6200C000012	FILTER TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T251	6200C000012	FILTER TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T400	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T402	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T402	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T403	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T406	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T407	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T408	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T409	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T410	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T414	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T415	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T416	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T417	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T418	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T419	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T420	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T421	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T422	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T423	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T424	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T425	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T426	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T427	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T430	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T431	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T432	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T438	6200QJ3001A	FILTER FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T440	6200VJT006A	FILTER STC222D NIIGATA 50VOLT 4A 2200PF
T444	6200QJ3001A	FILTER EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T445	6200QJ3001A	FILTER EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T446	6200QJ3001A	FILTER EMI REEL/TAPING BMS400 NIGATA 25V 200MA
X1	156-A01L	RESONATOR,CRYSTAL HC49U 6.000MHZ 30PPM 16PF BK
X101	6202VDT002E	RESONATOR,CRYSTAL SX-1SMD 20250000HZ 30PPM 16PF TP
X102	6202VDT002E	RESONATOR,CRYSTAL SX-1SMD 20250000HZ 30PPM 16PF TP
X1100	6202VDT002D	RESONATOR,CRYSTAL SX-1SMD 8.0MHZ 30PPM 16PF TP
X1201	156-A01B	RESONATOR,CRYSTAL HC49U 3.579545MHZ 30PPM 16PF BK
X1202	156-A01E	RESONATOR,CRYSTAL HC49U 4.000MHZ 30PPM 15PF BK
X401	6212AB2015D	RESONATOR,CRYSTAL HC-49/SM 16MHZ +/- 50 PPM 16PF T/R
X601	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM 10PF BK







SVC. SHEET : 3854VA0117A-S1
3854VA0117A-S2