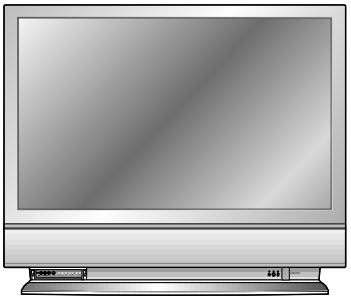
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

DLP Projection TV
SERVICE MANUAL

CHASSIS : MB-02JB

MODEL : RE/RL-44SZ21RD

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



CONTENTS

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

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

General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

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

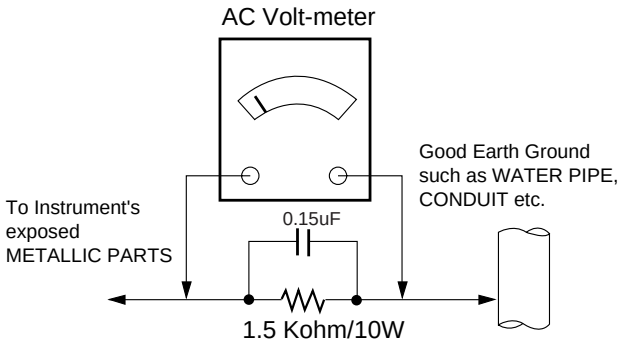
Leakage Current Cold Check(Antenna Cold Check)

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 1MΩ and 5.2MΩ.
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 is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in 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 fieldeffect transistors and semicounductor "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 electostatic 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 sufficent to demage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a repalcement 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 ieads 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 bruching 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 maintan tip temperature within the range or 500 ¡Æ to 600 ¡Æ.
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. Thorohly clean the surfaces to be soldered. Use a mall wirebristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 ¡Æ to 600 ¡Æ)
   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 circuiboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 ¡Æ to 600 ¡Æ)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Qulckly 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 parapraphs 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 boare.
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 perpendicula y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

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

At IC Connections

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

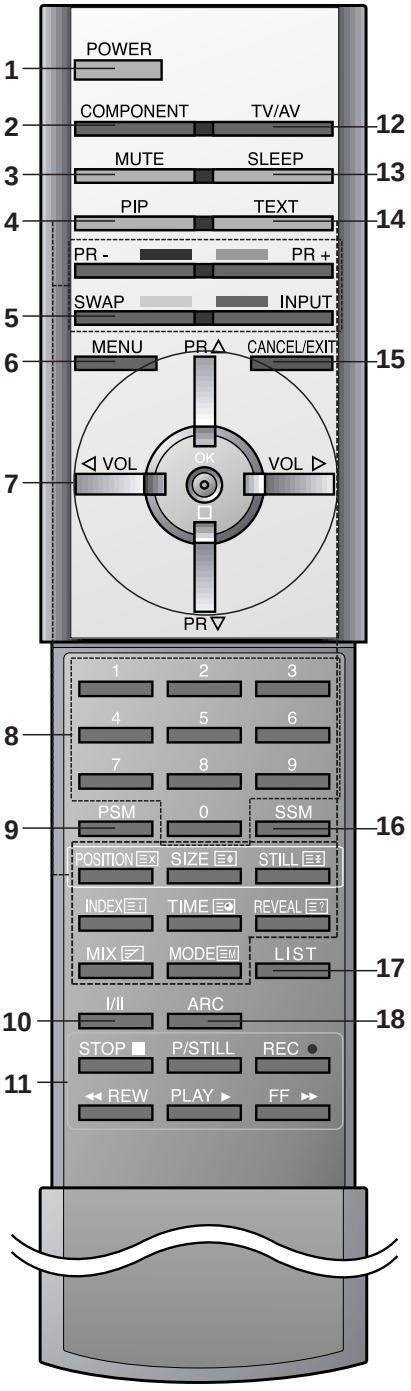
1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire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

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involoves 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



(With TELETEXT)

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

12.TV/AV
selects the remote operating mode.
switches the set on from standby.

13.SLEEP
sets the sleep timer.

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

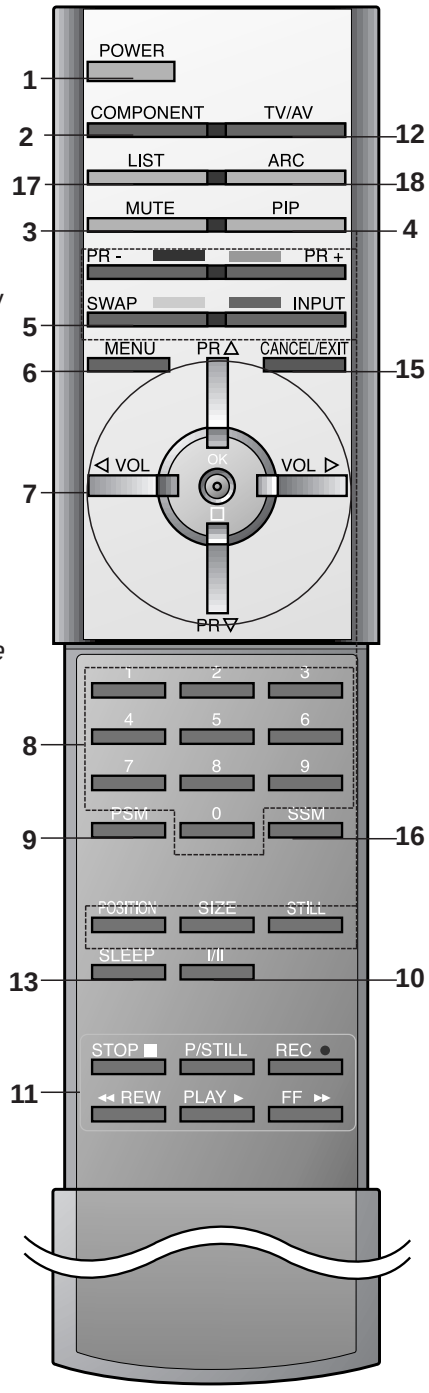
15.CANCEL/EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

16.SSM (Sound Status Memory)
recalls your preferred sound setting.

17.LIST
displays the programme table.

18.ARC (Aspect Ratio Control)
changes the picture format.

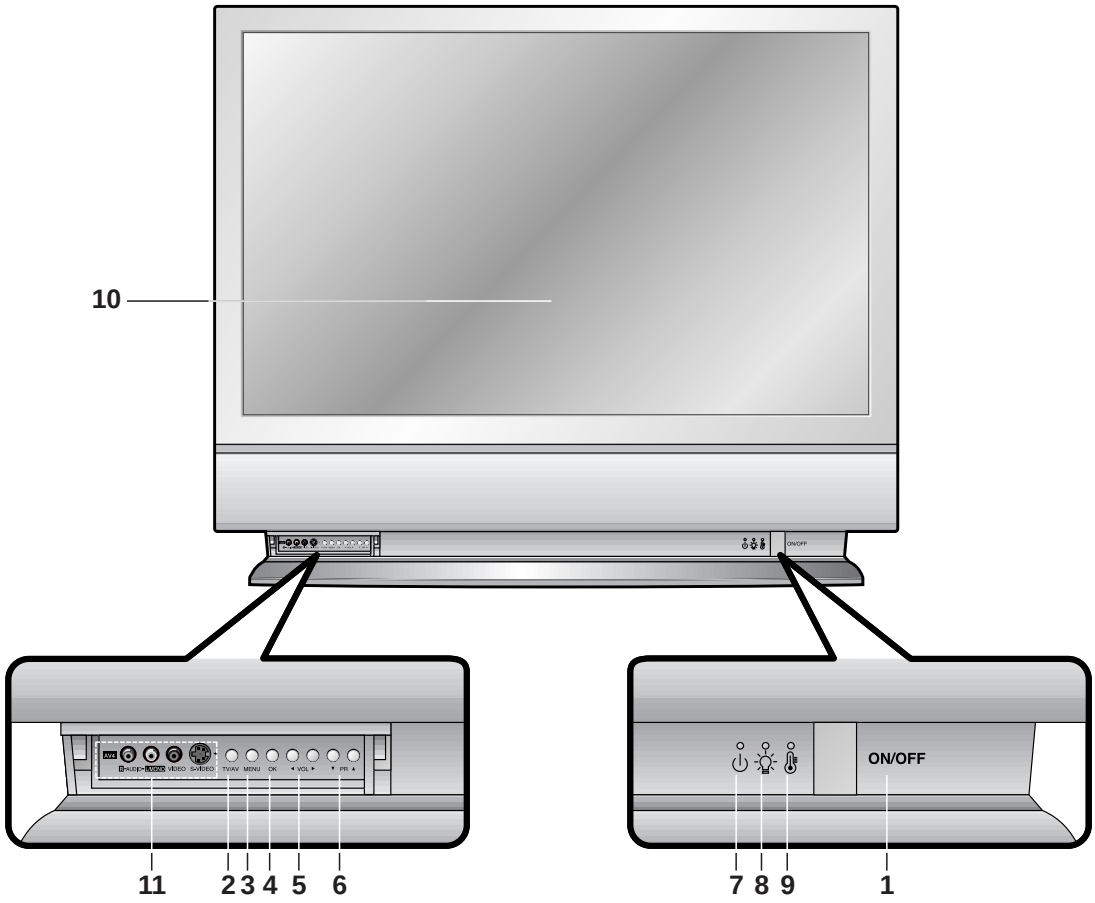
Note : *In teletext mode, the* ***PR +/-****,* ***SWAP*** *and* ***INPUT*** *buttons are used for teletext function.*



(Without TELETEXT)

Front panel

Lamp indicator, temperature indicator, and operation indicator, located side the front panel controls reveal the operating status of the DLP (Digital Light Processing) projection TV.



1. **MAIN POWER (ON/OFF)**
   switches the set on or off.

2. **TV/AV**
   selects TV or AV 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. **▲ / ▼ (Program Up/Down)**
   selects a program or a menu item.
   switches the set on from standby.

7. **OPERATION INDICATOR** (Refer to p.7)

8. **LAMP INDICATOR** (Refer to p.7)

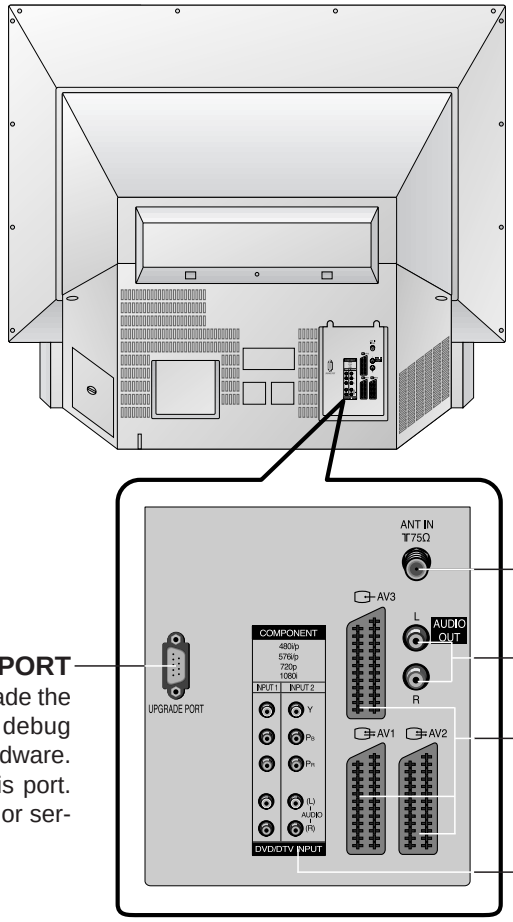
9. **TEMPERATURE INDICATOR** (Refer to p.7)

10. **REMOTE CONTROL SENSOR**

11. **AUDIO/VIDEO IN SOCKETS (AV4)**
    Connect the audio/video out sockets of external equipment to these sockets.
    S-VIDEO/AUDIO IN SOCKETS (S-VIDEO)
    Connect the S-VIDEO out socket of an VCR to the **S-VIDEO** socket.
    Connect the audio out sockets of the VCR to the audio sockets as in **AV4**.

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



AERIAL SOCKET

AUDIO OUT SOCKETS

EURO SCART SOCKETS

DVD/DTV INPUT SOCKETS

UPGRADE PORT

This port is used to upgrade the software version and debug without changing the hardware. Be careful not to use this port. Just contact your dealer or service centre.

•Status Indicators

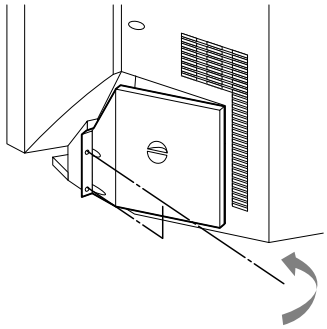
Operation Indicator	Off	Power cord is not connected.
	Red	Power Cord is connected, unit is on standby.
	Green	On
	Orange (flashing)	Preparing operation in standby.
Lamp Indicator	Orange	Projection lamp is reaching the end of its life and needs to be replaced with a new lamp.
	Green (flashing)	The lamp 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.

REPLACING THE LAMP

* Contact your dealer or LG service center for replacing the new lamp.

You must replace the lamp when;

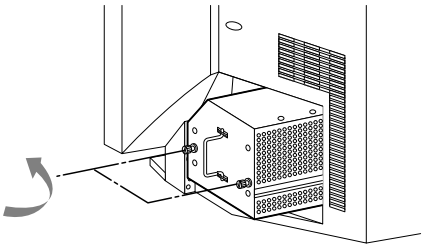
- The set image get darker or start to be deteriorated.
- The lamp indicator is orange.
- The message “LAMP REPLACE“ appears on the screen.



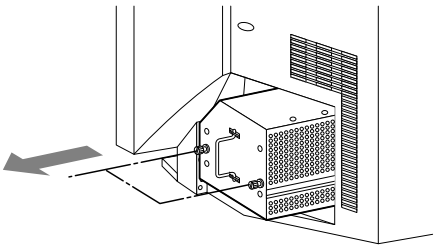
< Fig. 1>

* Replace the lamp as below sequence

1. Turn off the projection and unplug the power cable.
   (Cool the lamp for more than 1 hour.)
2. Remove the two retainging screws on the lamp cover with a screwdriver of “+“ type and then lift off the lamp cover.(refer to fig.1)
3. After lifting the lamp cover off, remove the two retaining screw on lamp case with screwdriver of “-“ type. (refer to fig.2)
4. Pull out the handle slowly and remove the lamp.(refer to fig.3)
5. Insert the new lamp gently into the correct position. Make sure it is inserted correctly.
6. Tighten the screw you removed in step 3.
7. Replace the lamp cover and tighten the cover screws.



< Fig. 2>



< Fig. 3>

SPECIFICATIONS

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

■ Scope

This specification can be applied to all the DLP Projection TV related to MB-02JB Chassis.

■ Test and Inspection Method

1) performance:Follow the Standard of LG TV test
2) RCA JACK performance :Follow the standard of LG.

■ Test Condition

1) Temperature :25¡ 5°C(CST : 40°C¡ 5°C)
2) Relative Humidity:65¡ 10%
3) PowerVoltage:Standard input voltage(230V~¡ 10%, @50Hz)
But Standard input voltage mark value is marked by model.
4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
5) Follow each drawing or spec for spec and performance of parts,based upon P/N of B.O.M

Model	Market	Remark	Appliance
RE-44SZ21RD	EUROPE	SAFETY:CB EMI:EN55013 EMS:EN55020	OK

* Mark:Option Item

■ General Specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Video input applicable system	PAL/ SECAM-BG PAL/ SECAM-DK PAL-I SECAM-L/L'(Option)				* SECAM-L/L':Option (France, swiss, spain) * SECAM color Sys : Option
2	AV Receive System	PAL / SECAM SECAM				Except PAL -M/N
3	Available Channel	VHF : E02~E12 UHF : E21~E69 CATV : S01~S20 HYPER : S21~S41 L/L' VHF :B, C, D(Option)				
4	Input Voltage	AC 230V@50Hz				
5	Market	EU				
6	Screen size	44 inch				
7	Tuning System	FVS 100 Program				
8	Aspet ratio	16:9 (wide)				
9	Operating Temperature	0		40	deg	
10	Operating Humidity			85	%	
11	Storage Temperature	-20		60	deg	
12	Storage Humidity			85	%	

▪ Feature and Function

No	Item	Specification	Remark
1.	Teletext	TOP, FLOP, LIST, 128 PAGE	
2.	REMOCON	NEC Code	
3.	Audio/Video	Rear: Component YPbPr Input 2group Component Audio Input(L/R) 2group RF Input Full Scart(AV1) : 1group Half Scart(AV2/ S-Video) : 2group Half Scart(AV3) : 1group S-Video Input 1group RS-232C Upgrade Port Front : S-Video Input 1group A/V Input(AV4) 1group	480I/P, 576I/P, 720P, 1080I RGB IN/ TV OUT Monitor OUT
4.	Stereo	FM Stereo / Nicam Stereo	Classigy according to broadcasting system
5.	Dual Sound	FM Dual / Nicam Dual	
6.	Double Window Text	POT(Picture Out of Text)	SSC application
7.	Sound quality compensation function	1) Dolby Virtual 2) Equalizer function	
8.	Picture quality compensation function	4H COMB FILTER(VPC3230D)	
9.	SSC(Split Screen) Mode	O	
10.	Multi picture Display Mode	RF-AV PIP/ POP, AV-AV PIP/ POP Comp-RF PIP / POP, AV- COMP PIP/ POP	Conversion of Size/Position, Still function It's not available to work Comp-Comp PIP/POP
11.	Timer	Sleep Timer / Auto Sleep	
12.	OSD Language	EU 17 Language	
13.	Picture, EZ Video Mode	Dynamic /Standard / Mild / Game	
14.	Picture, User Control	Contrast / Brightness / Color /Sharpness/Tint	
15.	Sound, EZ Sound Mode	Dolb Virtual / Flat / Speech / Music / Movie	

▪ Power

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Power ON/OFF operation	10000			times	
2	Staring Voltage (AC INPUT)	-20			%	at Normal Condition
3	Staring Voltage (AC INPUT)	-15			%	at -10 °C
4	DC Voltage, Ballast	360	380	400	V	
5	DC Voltage, Audio AMP	28	32	40	V	
6	DC Voltage, 5V, stand-by	4.8	5	5.2	V	
7	DC Voltage, Analog 5V	4.8	5	5.2	V	
8	DC Voltage, Analog 9V	8.5	9.0	9.5		

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
9	DC Voltage, Digital/DLP Board 2.5V	2.4	2.5	2.6	V	
10	DC Voltage, Digital/DLP Board 3.3V	3.2	3.3	3.4	V	
11	DC Voltage, Digital/DLP Board 50V	4.8	5.0	5.2	V	
12	DC Voltage, DLP Board 12V	11.5	12	12.5	V	
13	DC Voltage, Turning voltage	30	32	33	V	
14	DC Voltage, 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 Input S/N	40			dB	
4.	Audio Input S/N	40			%	
5.	Audio Input Distortion			2	V	
6.	Audio Input Dynamic Range	2			%	
7.	Audio Deviation Linearity	250			Vrms	
8.	Audio Input Level	0.4	0.5	0.6	kHz	
9.	Audio Input Frequency Response	0.1		7	Vpp	
10.	S-video Input Level (y)	0.85	1	1015	Vpp	
11.	S-Video Input Level (C-Burst)	0.256	0.286	0.316	Vpp	
12.	R/ G/ B Video Input Level	0.6	0.7	0.8	Vpp	75 ohm (Pattern Color Bar)
13.	Component Video Input (Y, C_B / P_B, / C_R / P_R)	0.6	0.7	0.8	Vpp	75 ohm (480I/P, 576I, 720P, 1080I)

▪ 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	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)

▪ DMD specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Screen Size		0.65”		mm	
2.	Number of pixels		1024(H)x576(V)		dot	
3.	Pixel pitch		13.68(H)x13.68(V)		um	
4.	Dot clock		40.5		MHz	
5.	Operating Temperature	10		65	deg	
6.	Operating Humidity			95	%	
7.	Storage Temperature	-40		80	deg	
8.	Storage Humidity			95	%	
9.	Mirror Tilt	11	12	12	deg	
10.	Mirror pitch		13.68		um	
11.	axis of rotation-lower right to upper left	44	45	46	deg	
12.	SCP Clock frequency		50	250	kHz	
13	Risa/Fall Time(10% to 90%)			200	ns	

▪ DMD Sefect specification

No	Item		Specification				Remark
			Min	Typ	Max	Unit	
1.	Dark Pixel	Zone A			1	EA	
2.	(Blue 90 Zoned Screen)	Zone A+B			4	EA	
3.		Adjacent			0	EA	
4.	Total Minor Blemishes (Total of Dark and Light Blemishes)	White or Black			6	EA	
5.	Bright Pixel (Pixels brighter than Gray 10)	Gray 10			0	EA	Based on a standard 0-255 RGB scale
6.	Unstable Pixel (Unstable Pixels)	Red Ramp Screen			0	EA	
7.	Major Dark Blemish (Blemishes darker than Blue 90)	Blue 90			0	EA	
8.	Major Light Blemish (Blemishes brighter than Gray 10)	Gray 10			0	EA	

▪ Option

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Volume Curve		0			0 : Slow volume Curve 1 : Fast Volm Cuve
2.	Text Top		1			0 : Not realize TOP method 1 : Realize TOP method
3.	I_II SVC		0			0 : Dual Sound Mode No Save 1 : Dual Sound Mode Save
4.	Lamp Type		0			0 : OSRAM 1 : PHILIPS
5.	C_Mute		0			0 : Over modulation correspondence Off 1 : Over modulation correspondence On
6.	System		RE: 0 (BG/ I/ DK) RL: 1 (BG/ L)			0 : BG / I /DK 1 : BG / L 2 : BG / I DK / M
7.	OSD Language		EU 17 Language			0 : English 1 : German 2 : French 3 : Italy 4 : Spain 5 : Nederlands 6 : Portugal 7 : Sweden 8 : Norway 9 : Denmark 10 : Finland 11 : Hungary 12 : Czecho 13 : Russia 14 : Rumania 15 : Poland 16 : Bulgaria
8.	Text Language		0(West EU)			0 : West EU 1 : East EU1 2 : East EU2 3 : Turkey EU 4 : Cyrillic1 5 : Cyrillic2 6 : Cyrillic3 7 : Turk Gre1 8 : Turk Gre2 9 : Turk Gre3 10 : Arab Fra 11 : Arab Eng 12 : Arab Heb1 13 : Arab Heb2 14 : Fars Eng 15 : Fars Fra 16 : Fars All

ADJUSTMENT INSTRUCTIONS

1. Application Object

This instruction is for the application to the TV MB-02JB chassis of DLP Projection.

2. Notes

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

3. Composition of Adjustment Mode

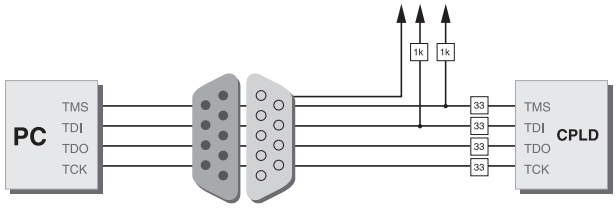
1) All adjustment mode are entered by pressing the ADJ key on the remore control,after adjustment pess the ADJ key to come out.
2) Below picture is screen composition when press the first ADJ key.
3) When press the ADJ key and entered EZ Adjust Mode,picture appear above screen. Select menu to adjust with using (CH+(▲),CH-(▼)) key above screen and press the enter key to adjust on the wanting menu.
4) Adjust the value of adjustment with using the volume +(◄),volume -(►) key.
5) Press the ADJ key to come out after adjustment.

EZ Adjust Mode	
1.Pattern	
2.Position	
3.White Balance	
4.Ad9883 Adjust	
5.Rf Win Adjust	
Lamp Type:	OSRAM@
DDP1010 Ver:	1.2
SubMicom Ver:	1.0
MainMicom Ver:	0.55

4. CPLD Memory work

(1)Required Test Equipments & Preparation for Adjustment

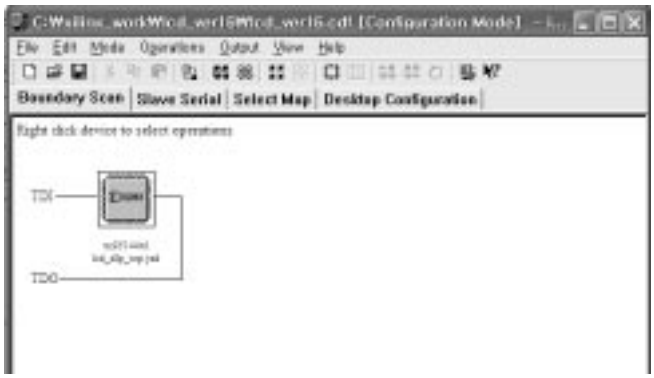
1) Connect the PC and memory JIG as shown figure.
2) Turn on JIG MAIN POWER SW.
3) After turn on the PC and moniter, operate the device programming.

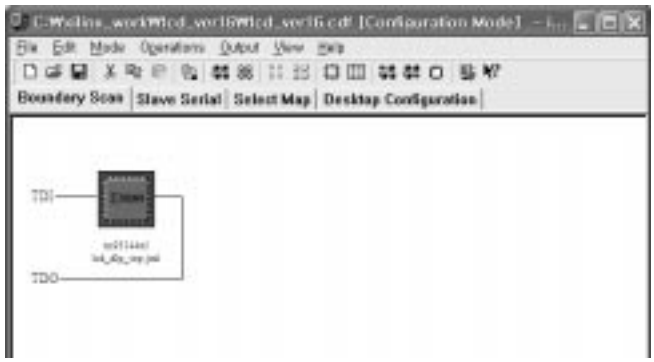


<Fig.How to connect the MEMORY JIG and PC>

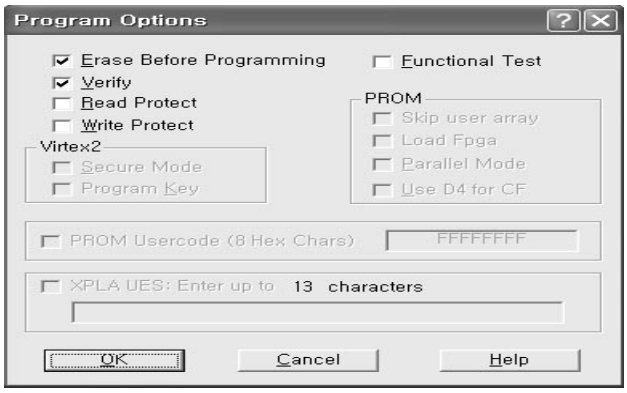
(2) Adjustment Sequence

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 shiwn below and press the OK button.
6) At this time, the download starts. The download finished after 10 seconds.



5. Component AD9883 Offset Adjustment

(1) Required Test Equipments :

1) Remote control : 1EA
2) 801GF pattern generator: 1EA

(2) Preparation for Adjustment

1) Connect the power to TV Set and set the status of "Power on".
2) Heat-Run must operate over 5 minitues before adjustment.
3) Enter the Component mode.
4) Receive the 720P,HozTVBar Pattern of 801GF.

<720P HozTVBar Pattern>

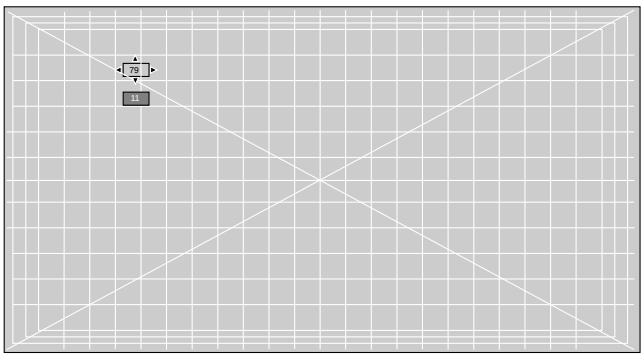
(3) Offset Adjustment

1)Wait over 10 seconds after receive signal and then press the "ADJ" button to enter the adjustment mode .
2)When press the "4.AD9883 Adjust" in adjustment item, it's adjusted automatically.

6. Screen Tilt & Keystone Adjustment

(1) Required Test Equipments

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



(2) Preparation for Adjustment

1) Do not assemble the front pannel equipment so that you can adjust the adjustment knob.
2) TV set display the adjustment pattern of " ADJ -> 2.Position".

(3) Adjustment Sequence

1) Adjust Tilt to be horizontal optical Engine plate and rotate two adjustment knobs to adjust Key stone.
2) Stick the Engine plate with screws after the tilt and keystone are been under the spec.
3) Select H-position with channel key in adjust mode.
4) Change the data with volume key on the remote control for adjustment so that the left/right of pattern are symmetrized
5) Select the V_position with volume key
6) Change the data with channel key on the remote control for adjustment so that the upper and down of pattern are symmetrized
7) After adjustment over, recieve PAL-B/G Digital and chedk the adjusmen level.

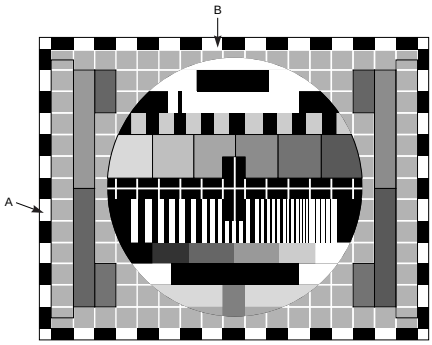


Fig1) H/V Position Adjustment Screen

8. Focus Adjustment

1) Adjust the focus when the it is deviated while entering the engine.(It doesn't need to be adjusted basically.)
2) Loose the fixing screws of projection lens and turn the lens to the left/right to make the optimum focus condition.And then fix the lens.

9. White Balance Adjustment

(1) Required Test Equipments : CA110

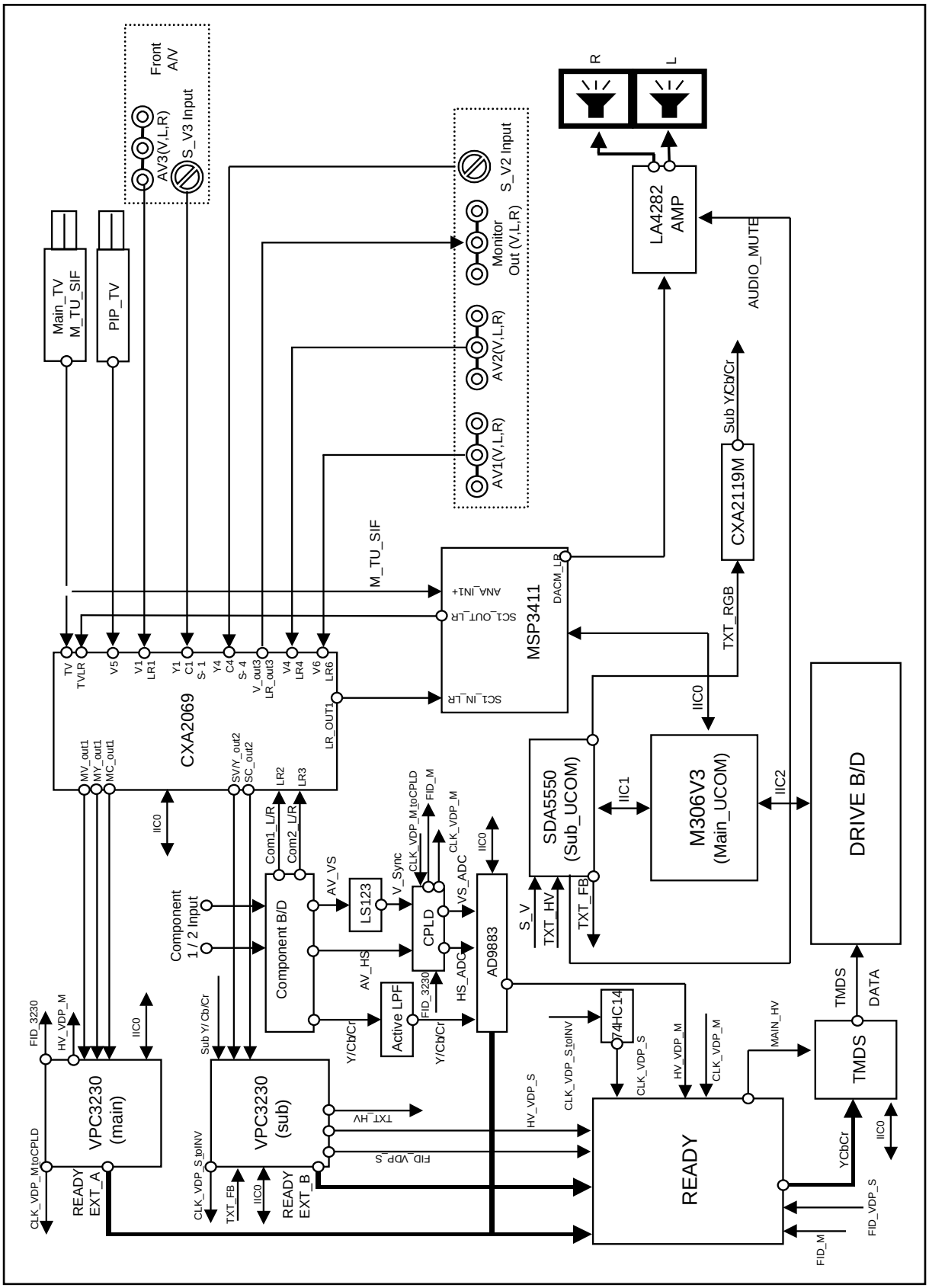
(2) White standard value : X=0.283 ¡ 0.01, Y=0.297 ¡ 0.01

(3) Adjustment Sequence

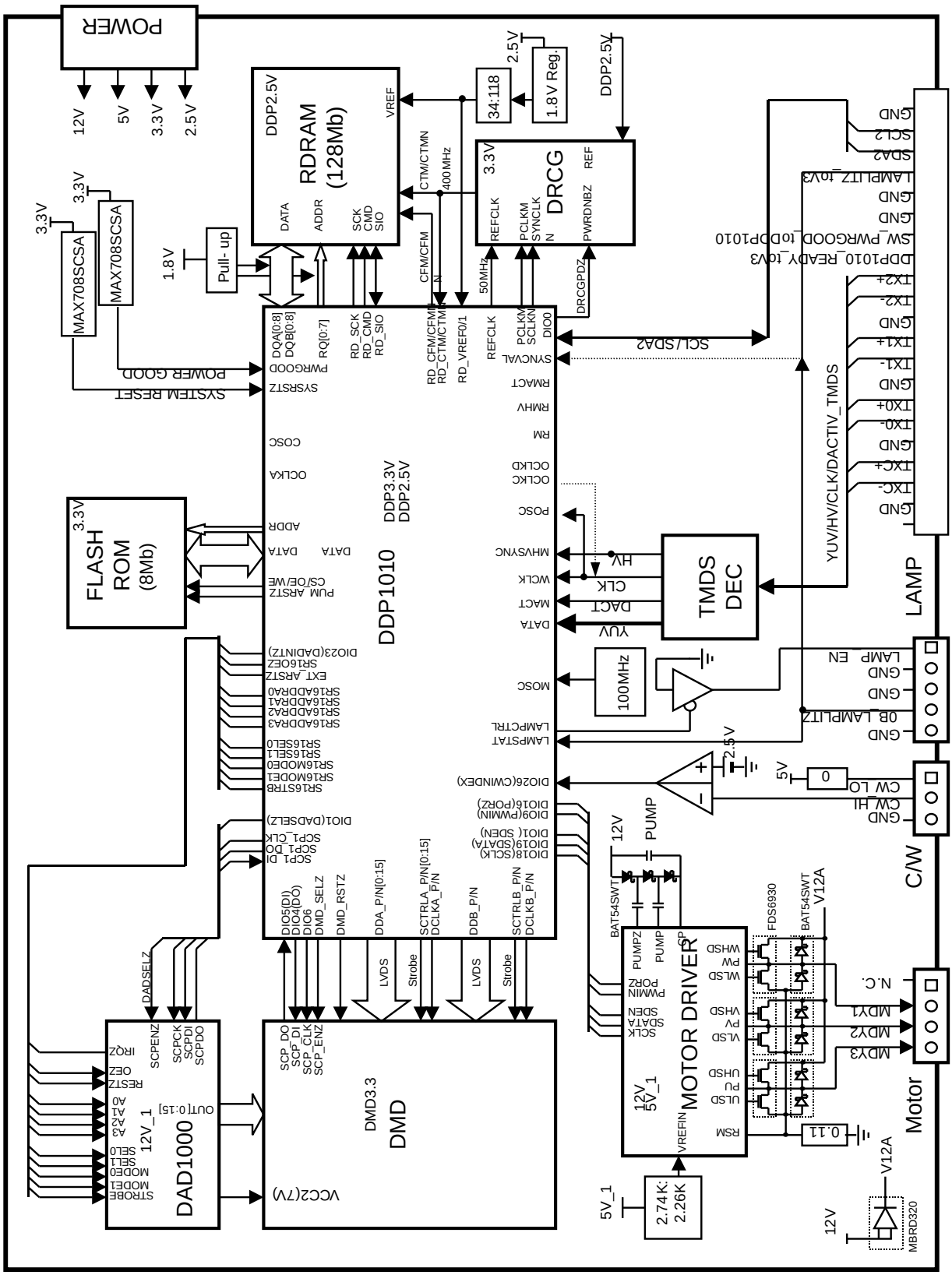
1) Install the CA110 at 20cm distance from the center of screen.
2) Enter the ADJ mode of the remote control for adjustment.
3) Enter the 3.White Balance again.
4) Fix the Gain value to B=100 and change the R/G value and then adjust the white balance.

BLOCK DIAGRAM

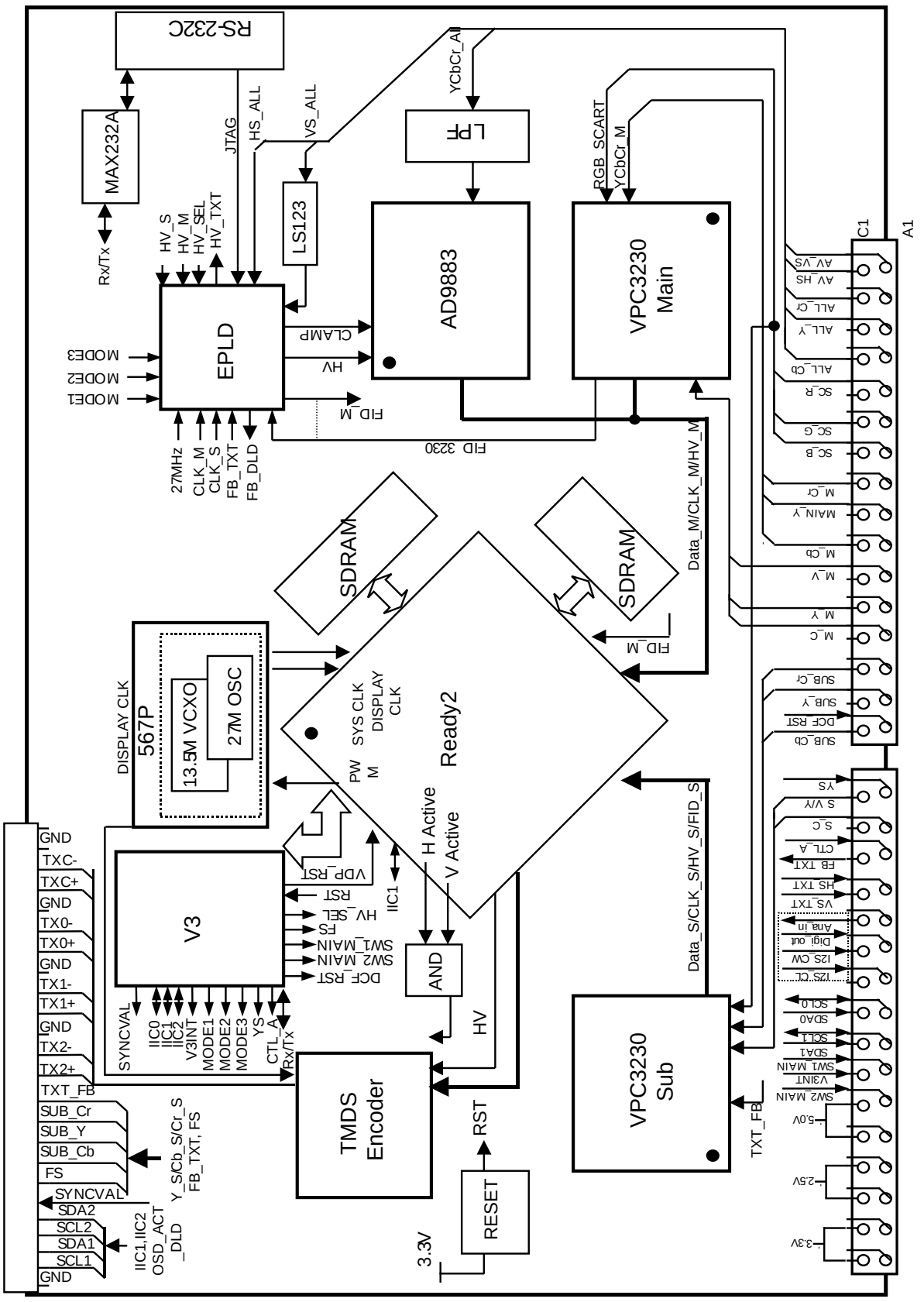
1. DLP Block



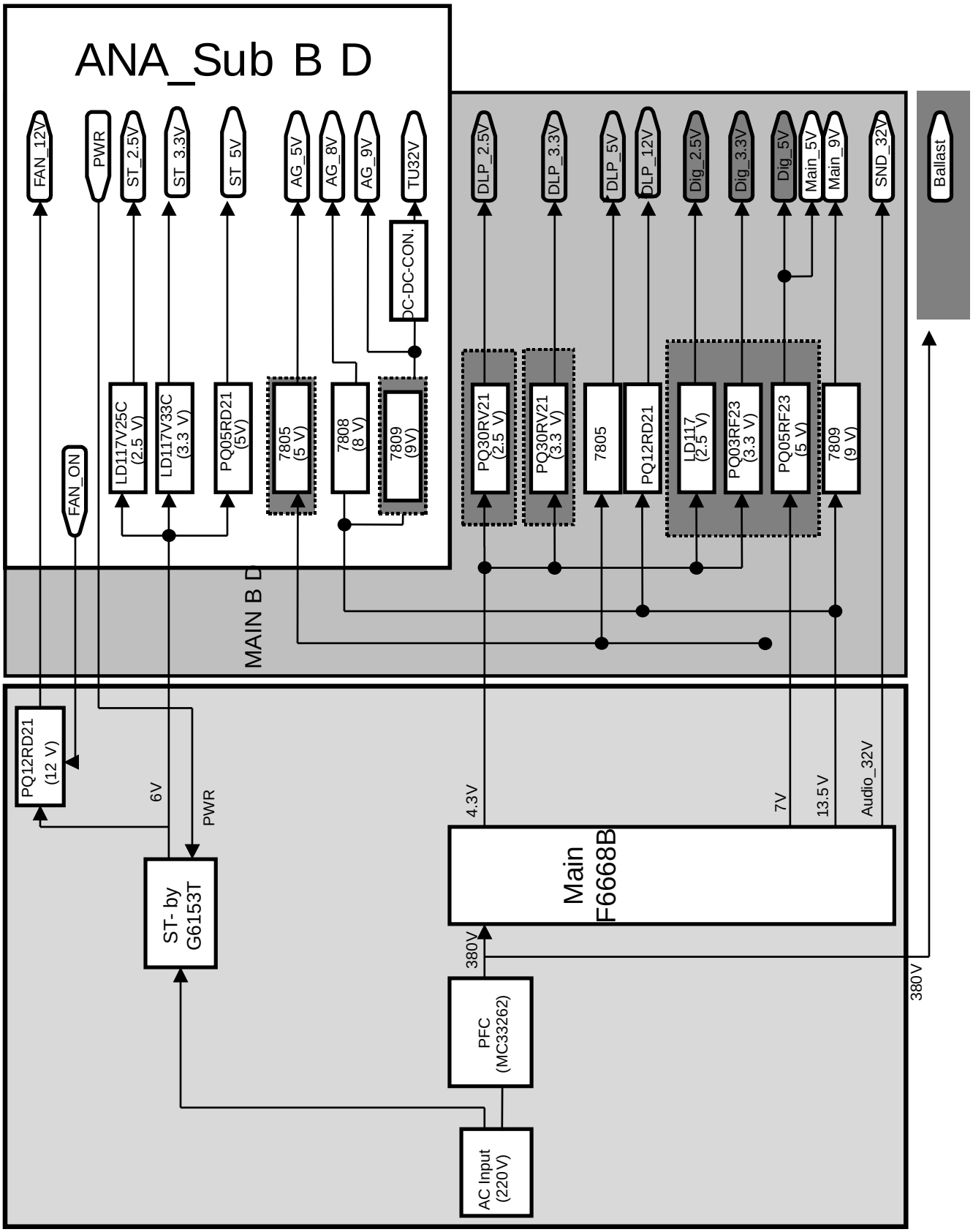
2. DLP Driver Block



3. Digital Board Block

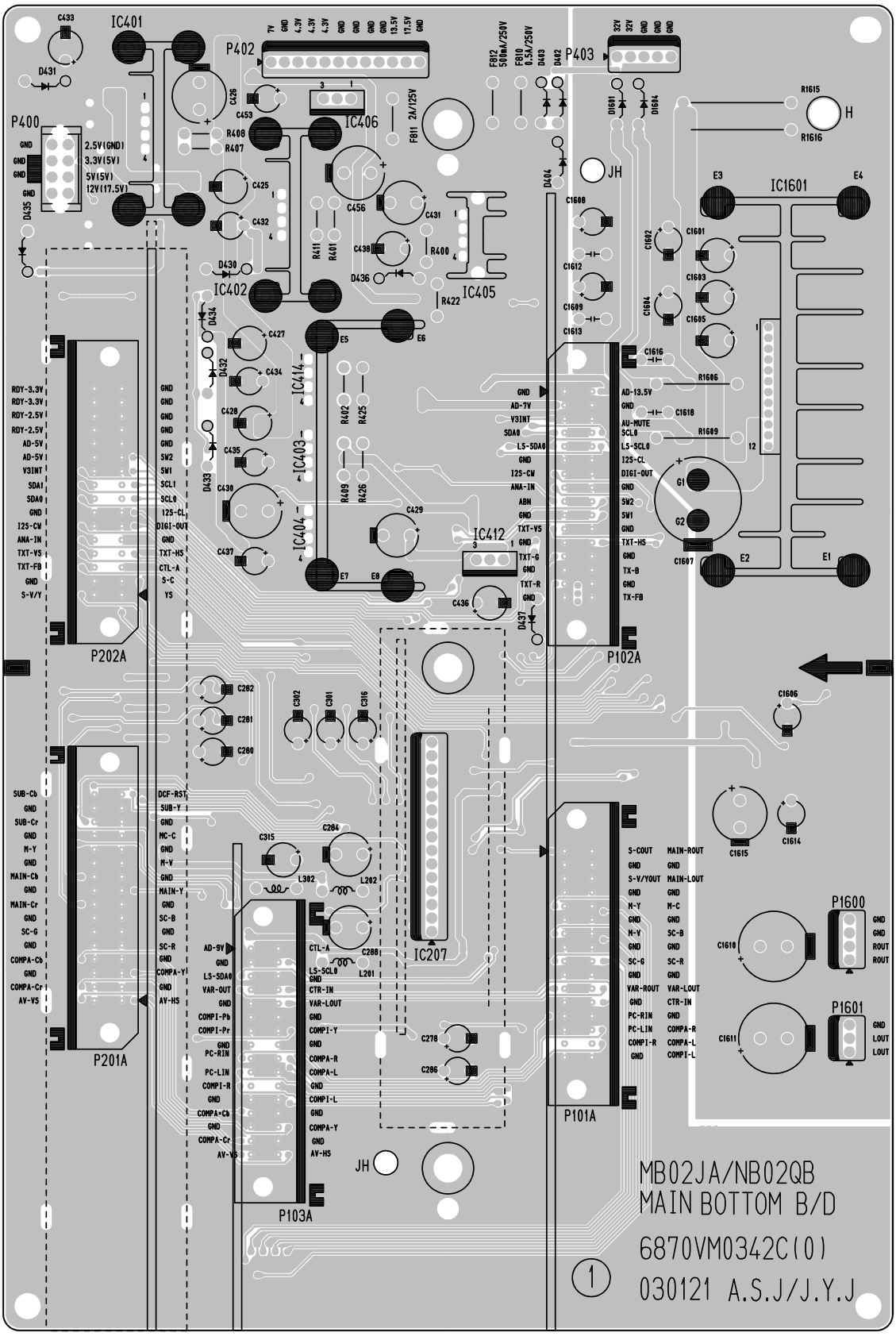


4. SMPS Block

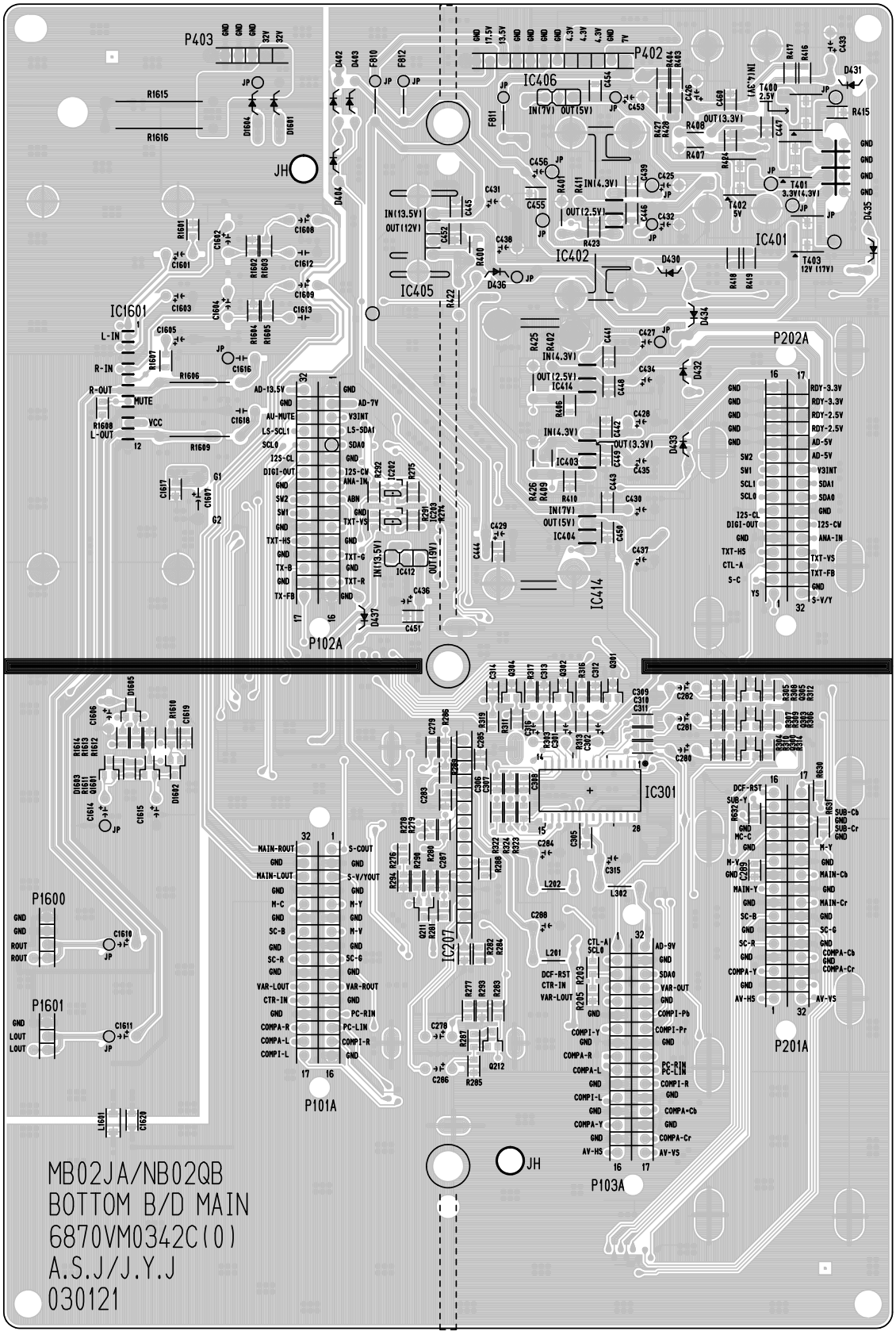

ANA_Sub B D
FAN_12V
PWR
ST_2.5V
ST_3.3V
ST_5V
AG_5V
AG_8V
AG_9V
TU32V
DC-DC-CON.
DLP_2.5V
DLP_3.3V
DLP_5V
DLP_12V
Dig_2.5V
Dig_3.3V
Dig_5V
Main_5V
Main_9V
SND_32V
Ballast
FAN_ON
LD117V25C (2.5 V)
LD117V33C (3.3 V)
PQ05RD21 (5V)
7805 (5 V)
7808 (8 V)
7809 (9V)
PQ30RV21 (2.5 V)
PQ30RV21 (3.3 V)
7805
PQ12RD21
LD117 (2.5 V)
PQ03RF23 (3.3 V)
PQ05RF23 (5 V)
7809 (9 V)
MAIN B D
PQ12RD21 (12 V)
6V
PWR
4.3V
7V
13.5 V
Audio_32V
ST- by G6153T
Main F6668B
380V
PFC (MC33262)
AC Input (220V)
380V

PRINTED CIRCUIT BOARD

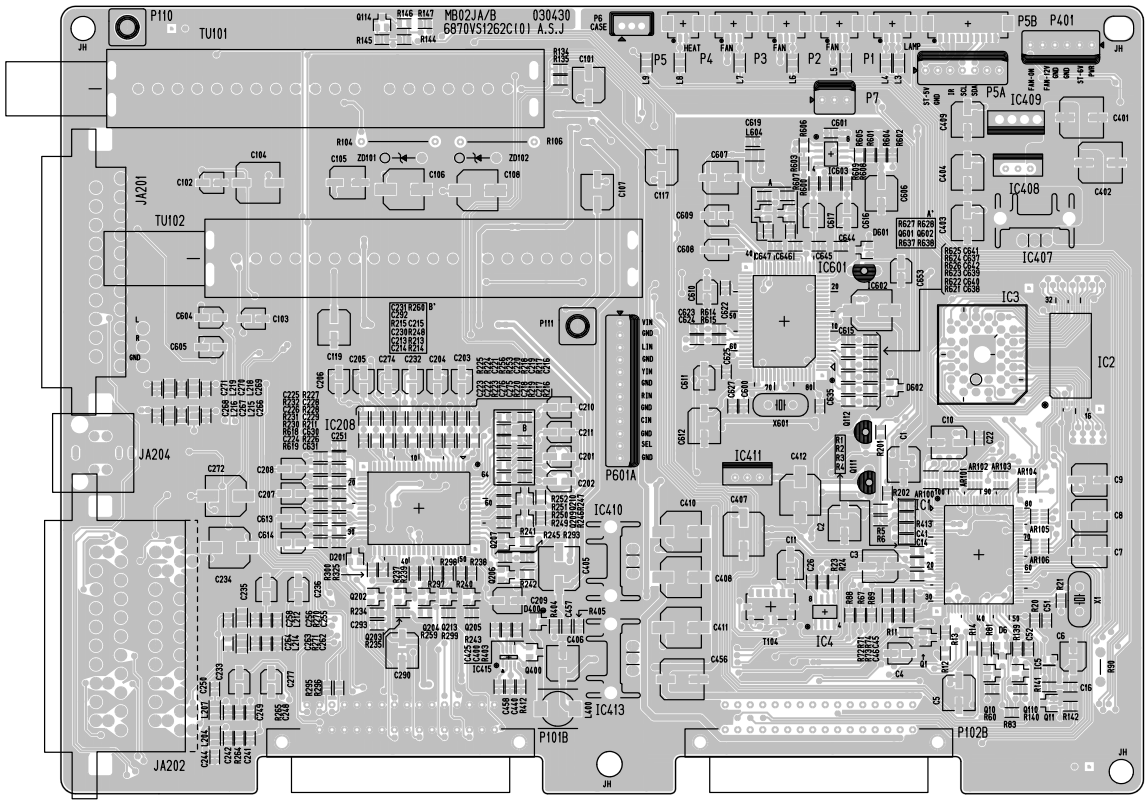
MAIN(TOP)



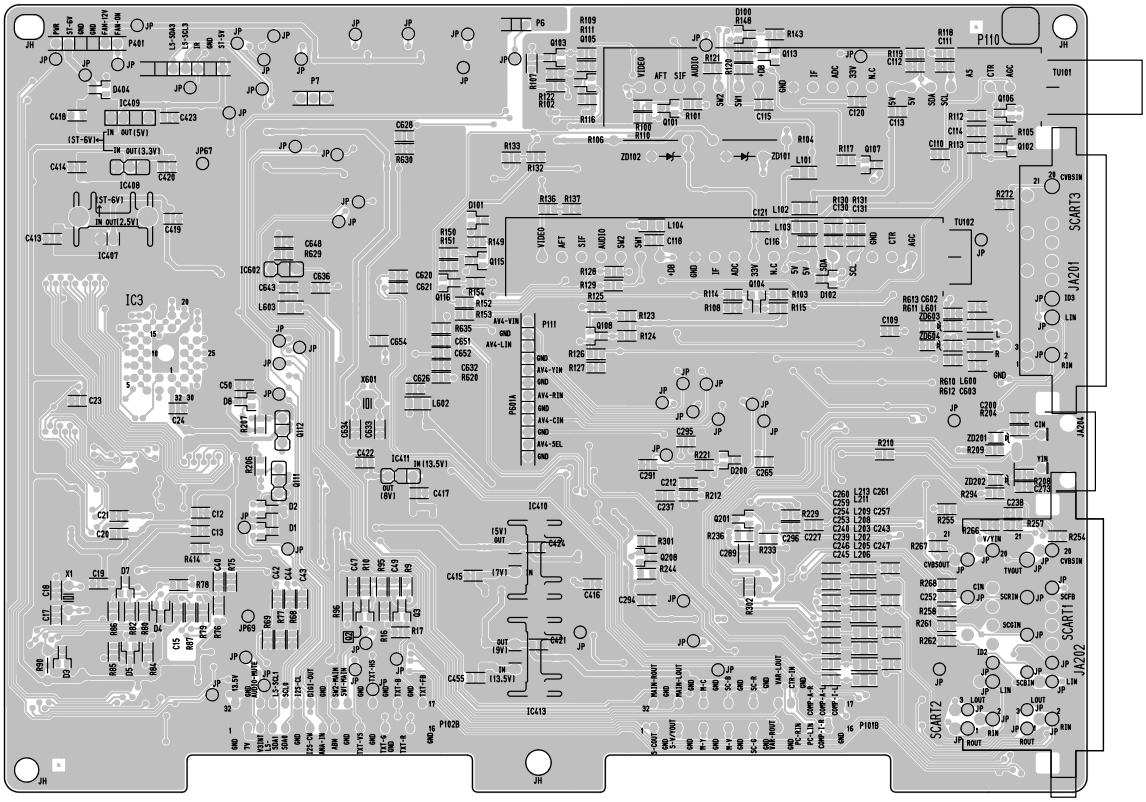
MAIN(BOTTOM)



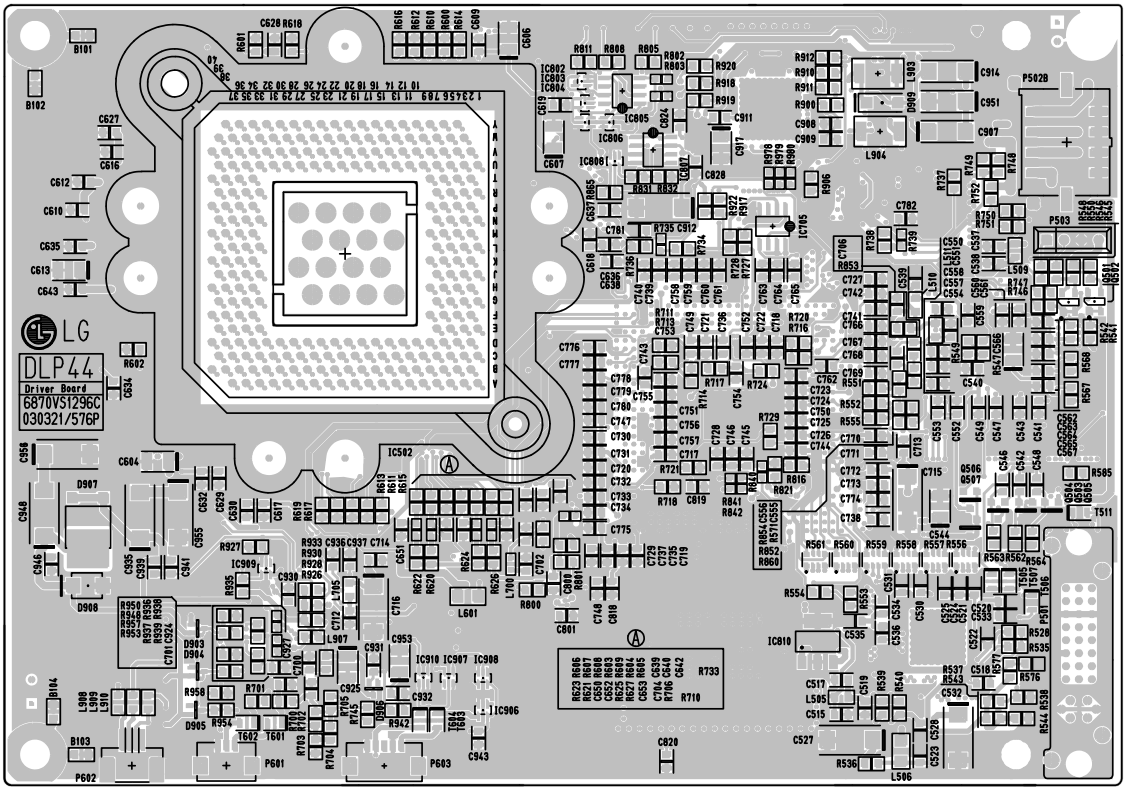
TUNER(TOP)



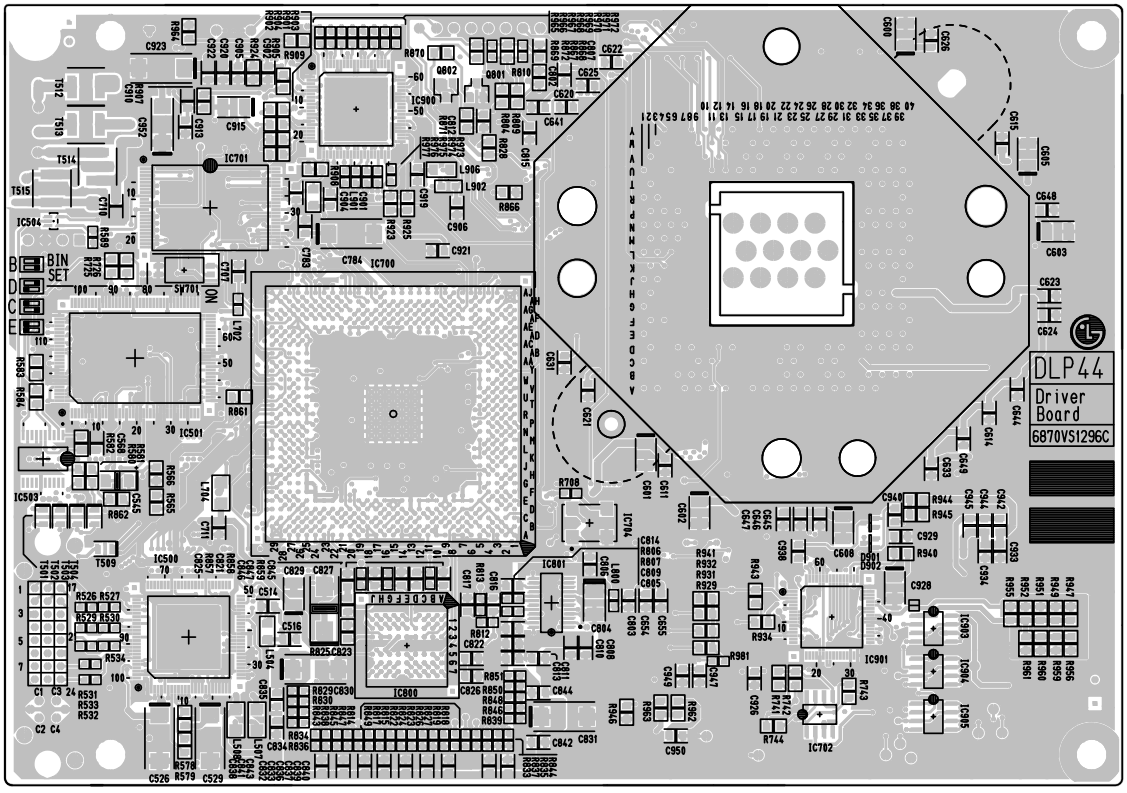
TUNER(BOTTOM)



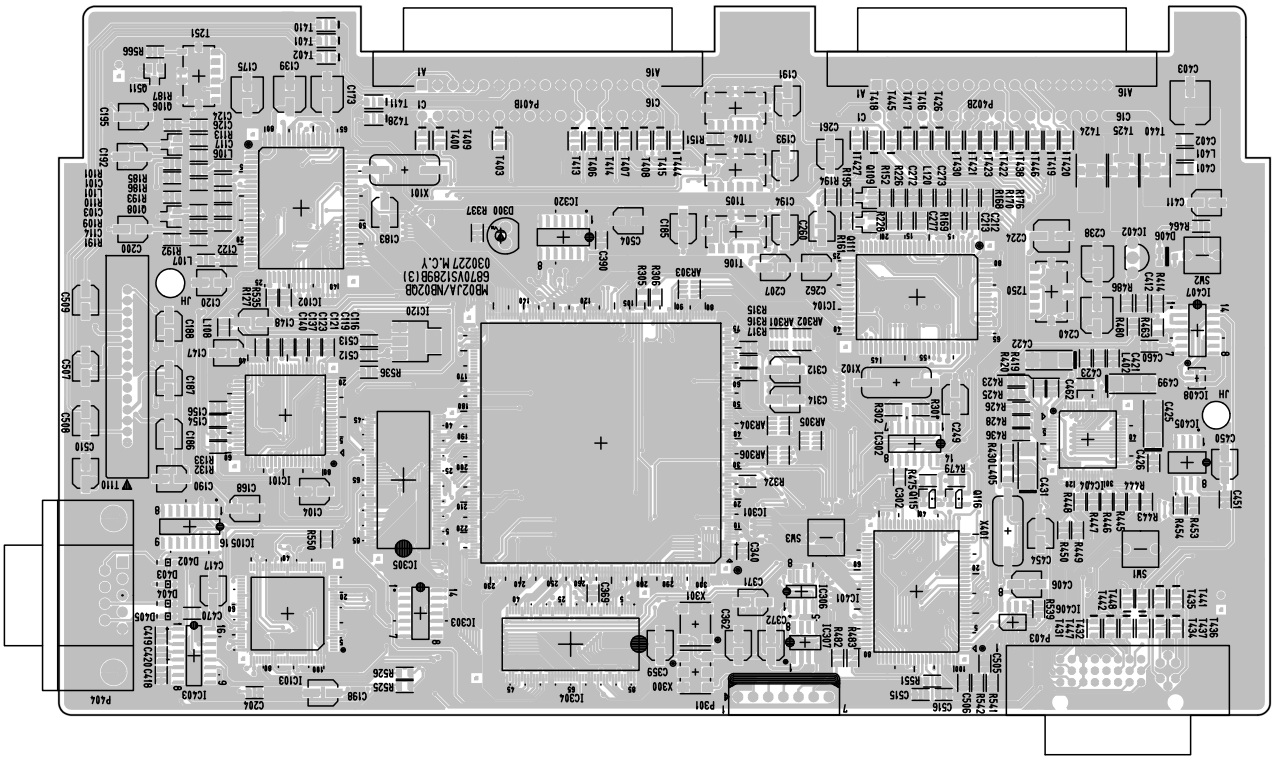
DLP DRIVER B/D(TOP)



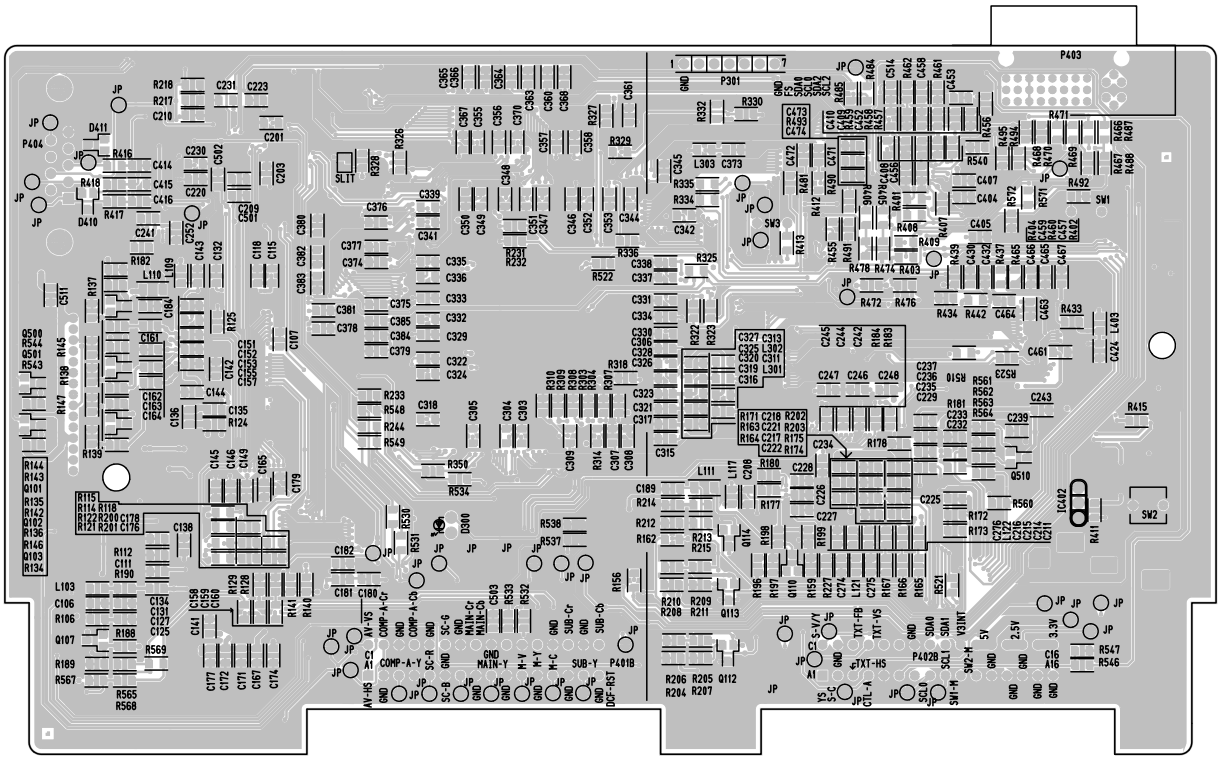
DLP DRIVER B/D(BOTTOM)



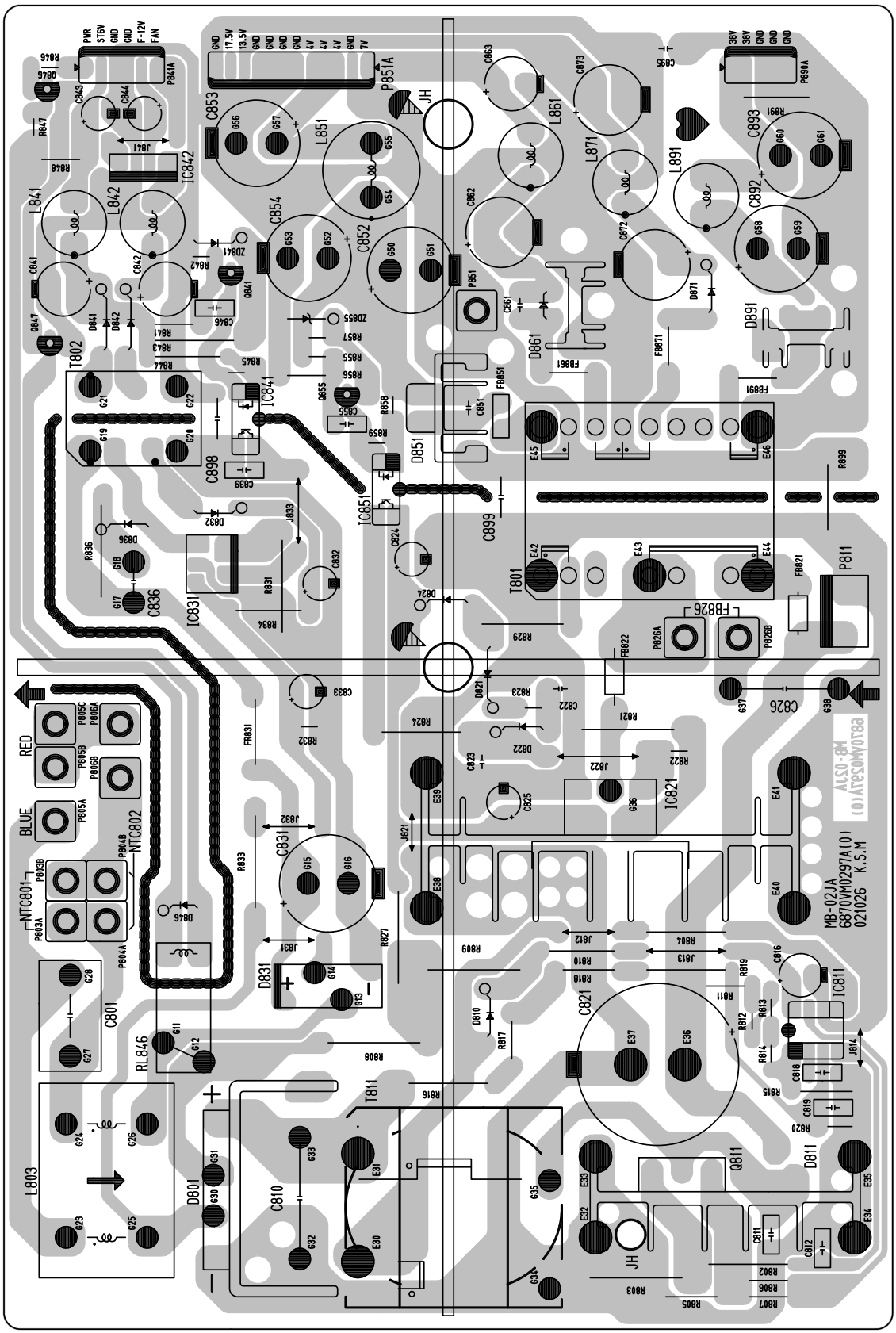
DIGITAL BOARD (TOP)



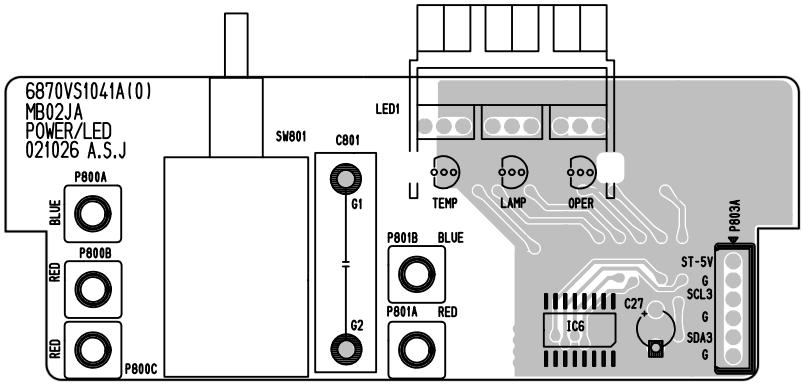
DIGITAL (BOTTOM)



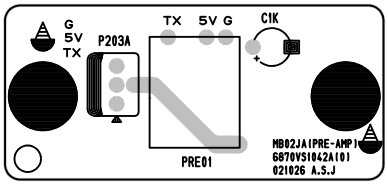
POWER



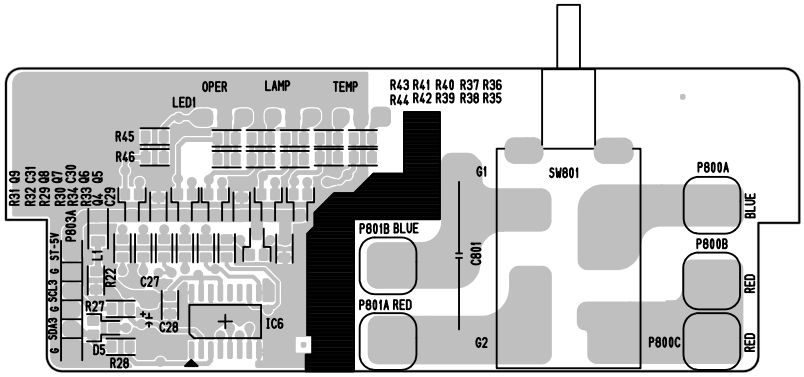
POWER/LED(TOP)



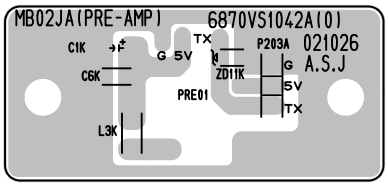
PRE-AMP(TOP)



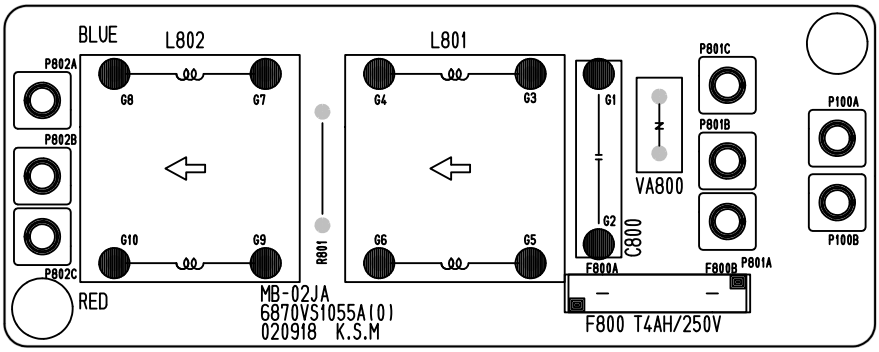
POWER/LED(BOTTOM)



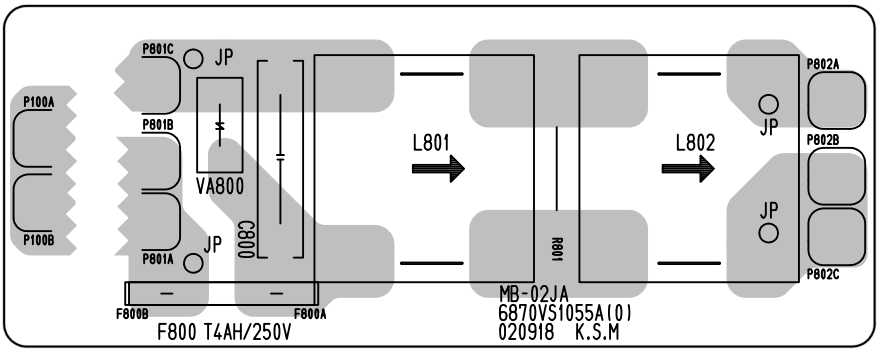
PREAMP(BOTTOM)



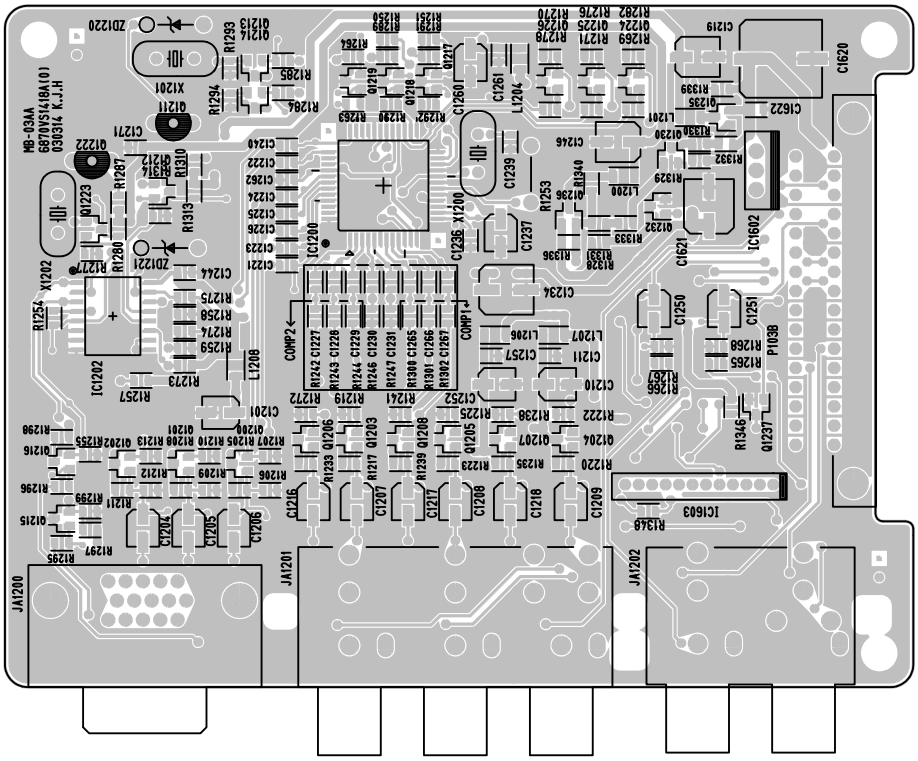
SMPS (TOP)



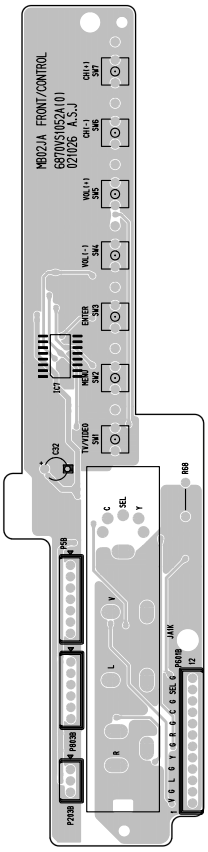
SMPS (BOTTOM)



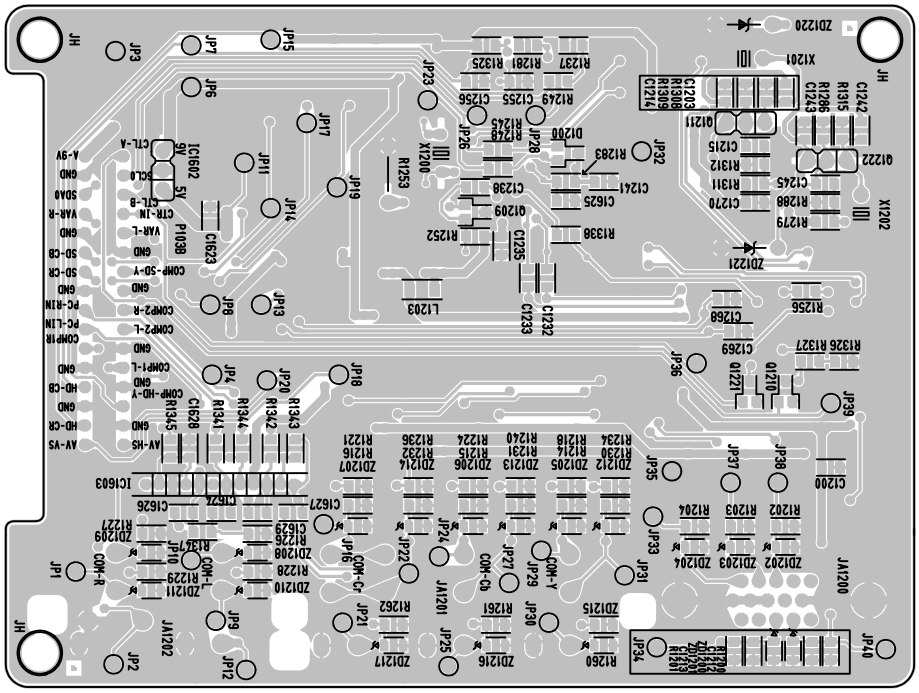
COMPONENT(TOP)



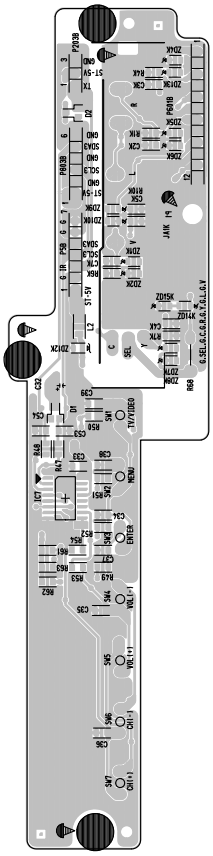
CONTROL(TOP)



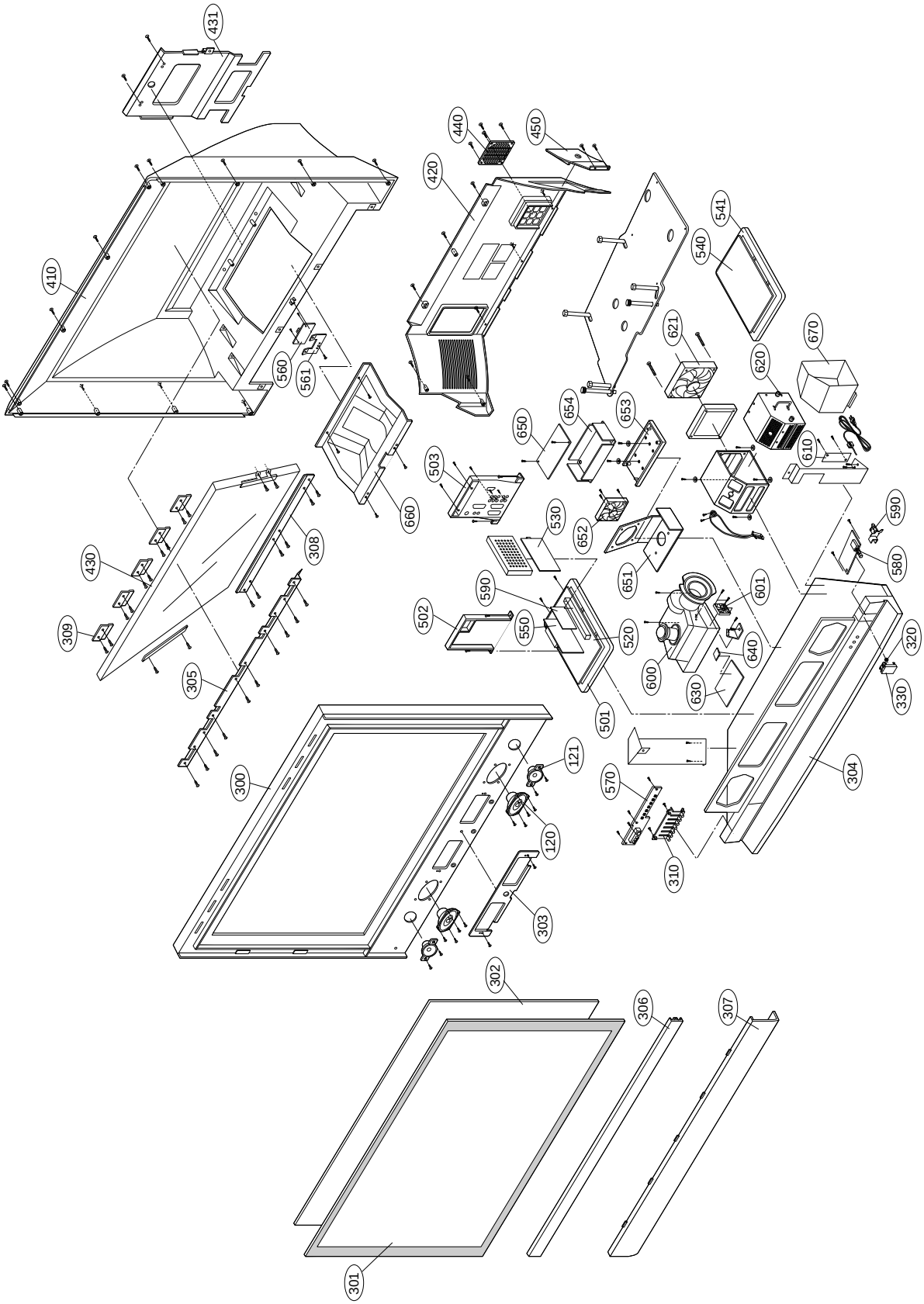
COMPONENT(BOTTOM)



CONTROL(BOTTOM)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
105	3680V00058D	LENS, PLUS OPTICAL ENGINE 15KV MATTERNHORN (DMD IC) 6871VSF202C
120	6400VA0035D	SPEAKER,FULLRANGE F3050C-6168-3 K-TONE MID-RANGE 8OHM 15/25W 87DB 120
121	6400VG0002C	SPEAKER,TWEETER F20T-6172 K-TONE TWEETER(DOME) 8OHM 10/20W 88DB 50 2.2UF
300	3211V00085A	FRAME ASSEMBLY, NON RE-44SZ20 3210V00130A LG
301	3350V00079A	SCREEN, TOPPAN LENTI. RE-44SZ20RD 994*560.5*2.1 HAZE 85%
302	3790V00689A	FILTER(MECH), RE-44SZ20 ACRYL 44” DLP PJTV WINDOW FILTER
303	3550V00230A	COVER, NON RE-44SZ30 NON ENGINE LENS FRONT
304	3091V00456A	CABINET ASSEMBLY, RE-44SZ20 - MB02JA ENGINE
305	4980V00423C	SUPPORTER, MIRROR EGI TOP,RE-44SZ20RD
306	4270V00012A	BAR, SUB DECO,RE-44SZ20RD, AL ,FRONT,LG
307	3530V00A28A	GRILLE, SPEAKER RE-44SZ20 ABS,PS NON NON
308	4980V00567B	SUPPORTER, MIRROR EGI RE—44SZ20RD
309	4810V00563A	BRACKET, MIRROR TOP RE-44SZ20
310	5020V00658A	BUTTON, CONTROL SET
320	320-075B	SPRING, COIL NON DIA:7.5MM, H:15.5MM NON NON
330	5020V00659A	BUTTON, POWER RE-44SZ20 SET
410	3809V00A53B	BACK COVER ASSEMBLY, RE-44SZ20RD NON 3808V00292,UPPER
420	3809V00A54A	BACK COVER ASSEMBLY, RE-44SZ20 NON 3808V00293A LOWER
430	5018V00039A	MIRROR, OCLI 44” DLP PJTV
431	4980V00450B	SUPPORTER, BACK COVER SECC CENTER,PRESS MOLD,RE-44SZ20RD
440	3550V00269A	COVER, LAMP FAN,RE-44SZ20RD PC-ABS
450	3550V00256A	COVER, LAMP RE-44SZ20 HIPS 60HR CHANGE
501	3210V00127B	FRAME, CHASSIS NON RE-44SZ20 NON
502	4930V00232B	HOLDER, SUPPORTER 40AF RE-44SZ20RD
503	4811V00030C	BRACKET ASSEMBLY, REAR AV RN-44SZ20H NB03JB
520	6871VMMB13F	PWB(PCB) ASSEMBLY,MAIN, MB-02JB BOTTOM M/I ASSY
530	6871VSMW29A	PWB(PCB) ASSEMBLY,SUB DIGITAL MB02JB RE-44SZ21RD DIGITAL M/I ASSY
540	6871VPM999A	PWB(PCB) ASSEMBLY,POWER SMPS MB02JA RE-44SZ20RD
541	3210V00127C	FRAME, CHASSIS HIPS 60HR RE-44SZ20 MB-02JA
550	6871VSMW28A	PWB(PCB) ASSEMBLY,SUB SIGNAL MB02JB RE-44SZ21RD TUNER M/I ASSY
	6871VSMW28B	PWB(PCB) ASSEMBLY,SUB SIGNAL MB02JB RL-44SZ21RD TUNER M/I ASSY
560	6871VSMB66A	PWB(PCB) ASSEMBLY,SUB P/AMP MB02JA PREAMP M/I ASSY
561	4980V00430B	SUPPORTER, PCB EGI RE-44SZ20RD
570	6871VSMB99A	PWB(PCB) ASSEMBLY,SUB SUB MB02JA FRONT/CTR M/I ASSY
580	6871VSMB65A	PWB(PCB) ASSEMBLY,SUB SUB MB02JA POWER/LED M/I ASSY
590	6871VSMW30A	PWB(PCB) ASSEMBLY,SUB CRM MB02JB RE-44SZ21RD COMPONENT M/I ASSY
600	3141VSNC03D	CHASSIS ASSEMBLY, SUB MB02JB DLP 576P/15KV OPTICAL BRACKET
601	5900V04007A	FAN,DC 109P0412M7D07 SANYO DENKI 40*40*15 DC12V 95MA DLP SVC
610	6871VSMQ19A	PWB(PCB) ASSEMBLY,SUB L/F MB02JA LINE FILTER BOARD
620	3110V00277B	CASE, MAIN RT-44SZ20RP METAL 15KV LAMP CATRIGE ASSY
621	5900V12002A	FAN,DC D12T-12PS7 02B NIDEC 120*120*25 DC 12V 50MA 1000RPM 10.2 -13.8 V DLP SVC
630	6871VSMB50C	PWB(PCB) ASSEMBLY,SUB CRM MB02JB DRIVER BOARD MATTERHORN_B
640	0IZZVF0023A	IC,DRAWING X1057-6324 250P TRAY 576 PIXEL TI DLP MICRO MIRROR
650	6316000002B	BALLAST, PT VIP 120AC/380 O1 OSRAM 120W 15KV DLP44
651	4980V00523B	SUPPORTER, FAN EGI RE-44SZ20RD
652	5900V08004B	FAN,DC F8025S12B2-RG DONG YANG 80MM 12V 120MA 2000RPM 79G L 800MM
653	4810V00659A	BRACKET, BALLAST RE-44SZ20 NON ABS NON
654	3858V00039A	SHEET (MECH), SUB . POLYESTER FILM T=0.05 .
660	4810V00562A	BRACKET, COVER RE-44SZ20 NON NON NON
670	4810V00660A	BRACKET, DUCT RE-44SZ20 NON PC-ABS LAMP

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
	IC	
IC1	0ISM555000A	IC,SDA5550 MQFP100 BK MICOM TXT MC006A
IC101	0IMCRAD002A	IC, AD9883A ANALOG DEVICE 80P TQFP R/TP
IC102	0IIT323000E	IC, VPC3230D C5 80P QFP
IC103	0IMCRXL003A	IC, XC95144XL-10TQ100C 3.3V XILINX TQFP 100P
IC104	0IIT323000E	IC, VPC3230D C5 80P QFP
IC105	0IFA741230A	IC, DM74LS123MX 16SOP TP
IC120	0ISJ111733A	IC, EZ1117CST-3.3 3P,SOT-223 TP 3.3V
IC1200	0IMCRSO008A	IC, CXA2151Q SONY 48P QFP TRAY 60LCD
IC1202	0IMO744053B	IC, MC74HC4053DW 16SOP 3*2CH.MUX
IC1601	0ISA428200A	IC, LA4282 12S 2CHX10W AUDIO AMP
IC1602	0IKE780500Q	IC, KIA7805API 3P TO-220 ST 5V(=KIA7805PI)
IC2	0ISS610082A	IC, 32-TSOP R/TP 1M(8BIT-128K)-SRAM(3.3V),70NS MC-006A
IC208	0ISO206900A	IC, CXA2069Q QFP64 BK I2C BUS AV S/W
IC301	0ICTMLG003C	IC, LGDT1502M LG IC 304P QFP TRAY READY-2 AMKOR
IC301	0ISO211900A	IC, CXA2119M 28P,SOP TP VIDEO SWITCHING
IC302	0ITI740000Q	IC, SN74LVC00AD 14SOP R/TP LOGIC D-TV
IC303	0ITI740000Q	IC, SN74LVC00AD 14SOP R/TP LOGIC D-TV
IC304	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC305	0IMMRHY033A	IC, HY57V643220C(L)T-6 HYNIX 86P TSOP
IC307	0IMCRIC001A	IC, ICS570 INTEGRATED CIRCUIT SYSTEMS 8PIN
IC320	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC4	0IMCRAL006A	IC, AT24C16AN-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC401	0ICTMMI038B	IC, 100P QFP TRAY SINGLE 16BIT CMOS CHIP
IC401	0ISH302122A	IC, PQ30RV21 TO-220
IC402	0IFA752700A	IC, KA75270Z 3 TP RE-SET IC MC-007
IC402	0ISH302122A	IC, PQ30RV21 TO-220
IC403	0IMCRSG010A	IC, ST3232CDR SOP16 R/TP RS232 DRIVER/RECEIVER
IC403	0ISH302122A	IC, PQ30RV21 TO-220
IC404	0IMCRTI019A	IC, TFP410 64P TQFP TRAY BUS 165MHZ
IC404	0ISH052100C	IC, PQ05RD21 4SIP ST
IC405	0IMP242560A	IC, 24LC256-I/SM 8P,SOP TP 256K IIC SERIAL EEPROM
IC405	0ISH122100B	IC, PQ12RD21 4SIP ST
IC406	0IKE780500Q	IC, KIA7805API 3P TO-220 ST 5V(=KIA7805PI)
IC407	0ISG111725B	IC, LD1117V25 3 SIP ST MC006A
IC407	0IPH741400E	IC, 74HC14D 14SOP TP SHITTER TRIGGER
IC408	0ISG111733B	IC, LD1117V33C 3SIP ST
IC409	0ISH052100C	IC, PQ05RD21 4SIP ST
IC410	0IKE780500Q	IC, KIA7805API 3P TO-220 ST 5V(=KIA7805PI)
IC411	0IKE780800J	IC, KIA7808API 3 ST
IC412	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V
IC413	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V
IC414	0ISH302122A	IC, PQ30RV21 TO-220
IC415	0ITK118100B	IC, TK11840L 8P SOT23L R/TP PWM IC
IC5	0IMX811000A	IC, MAX811REUT-T 128QFP BK RESET DI-32Q82
IC500	0IPRPTI001A	IC, TFP401PZP TEXAS INSTRUMENT 100,TQFP R/TP
IC6	0IMI623200B	IC, 16P SOP TP I/O EXPANDER CN-29Q3
IC601	0IMCRMN001C	IC, MSP3411G QA B8 V3 MICRONAS 80P QFP
IC602	0IFA753307A	IC, KA75330ZTA(KA7533ZTA) 3P,TO-92 TP 3.3V RESET IC
IC7	0IMI623200B	IC, 16P SOP TP I/O EXPANDER CN-29Q3
IC700	0IMCRTI011A	IC, 2503227-001(DDP1010) 529P EPBGA ST
IC701	0IMMRAL015A	IC, AT49LV8192A-90TC ATMEL 48P TSOP ST

LOCA. NO	PART NO	DESCRIPTION
IC702	0IMCRFA003A	IC, KA2903 FAIRCHILD 8SOP R/TP AMPLIFIER
IC705	0IMCRAL006A	IC, AT24C16AN-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC800	0IMMRSS053A	IC, K4R271669D-TCS8 SAMSUNG ELECTRONICS 54P UBGA
IC801	0IMCRTI014A	IC, CDCR83 24P STOP R/TP DIRECT RANBUS
IC802	0IMCRSG007A	IC, 74VIT125CTR 5P S0T323-5L R/TP
IC803	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC804	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC805	0IMCRMX001A	IC, MAX708SCSA MAXIM 8P SOP R/TP RESET
IC806	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC807	0IMCRMX001A	IC, MAX708SCSA MAXIM 8P SOP R/TP RESET
IC808	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC810	0IMCRSJ001A	IC, SC1565IST-1.8 SEMTECH 3P SOT223 TP
IC811	0IMCRON002A	IC, MC33262P ON SEMI 8P DIP ST
IC821	0ISK666813A	IC, STR-F6668B(LF1352) 5PIN BK STR FD-60X3R
IC831	0ISK615311B	IC, STR-G6153T(LF1101) 5PIN BK STR HN-61A40R
IC841	0ILI817000G	IC, LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC842	0ISH122100B	IC, PQ12RD21 4SIP ST
IC843	0ISH122100B	IC, PQ12RD21 4SIP ST -
IC851	0ILI817000G	IC, LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC900	0IMCRTI012A	IC, 2503252-002(DAD1000) 80P PQFP ST
IC901	0IMCRTI013A	IC, SNSH6742CFA0PA(P32J6742PAG) 64P TQFP ST
IC906	0IMCRSG007A	IC, 74VIT125CTR 5P S0T323-5L R/TP
IC907	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC908	0IMCRSG008A	IC, 74LX1G14CTR 5P SOT323-5L R/TP
IC909	0IMCRSG008B	IC, 74LX1G07CTR 5P SOT323-5L R/TP
IC910	0IMCRSG007A	IC, 74VIT125CTR 5P S0T323-5L R/TP
Q111	0IFA270000A	IC, 2N7000TA TO-92, 3P TP
Q112	0IFA270000A	IC, 2N7000TA TO-92, 3P TP
T110	0IZZVF0022B	IC, AMF730F6M00X2(AF-9397) 15P SIP ST ACTIVE LPF
	TRANSISTOR	
IC202	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
IC203	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
IC903	0TFFC80015A	TR, FDS6930A MOSFET 8P R/TP SO-8 30V 5.5A
IC904	0TFFC80015A	TR, FDS6930A MOSFET 8P R/TP SO-8 30V 5.5A
IC905	0TFFC80015A	TR, FDS6930A MOSFET 8P R/TP SO-8 30V 5.5A
Q1	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q101	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
Q105	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q106	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q107	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
Q114	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q115	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W

LOCA. NO	PART NO	DESCRIPTION
Q116	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W
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
Q1209	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q1211	0TR127009AA	TR, KTA1270-Y(KTA562TM) 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
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) KEC 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
Q4	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q400	0TRKE80038A	TR, KTC3552T-RTK KEC R/TP SOT-23F 50V 3A
Q5	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q501	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q501	0TR102009AG	TR, CHIP KRC102S KEC TP SOT-23 NA NA
Q502	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q510	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q511	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q6	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q601	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q602	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q7	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q8	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q801	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q802	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q811	0TF283700AA	TR, 2SK2837 BK TOSHIBA 500V 20A TO3P
Q841	0TR945009AA	TR, KSC945C-Y SAMSUNG TP TO92 50V 150MA
Q846	0TR322709AA	TR, KTC3227-Y,TP(KTC1627A),KEC
Q847	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q855	0TR945009AA	TR, KSC945C-Y SAMSUNG TP TO92 50V 150MA
Q9	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC

DIODE

LOCA. NO	PART NO	DESCRIPTION
D1	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D1	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D1200	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D1602	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D1603	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D1605	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D2	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D2	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D200	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D201	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D3	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D300	0DL112100AA	LED SR3411(DL-11S2RN1) BK RED -
D4	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D400	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D402	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D403	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D404	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D404	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D405	0DR050008AA	DIODE, SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
D406	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D410	0DRSE00038A	DIODE, R/TP SOT23 12.8V 10A .A .SEC 100NA
D411	0DRSE00038A	DIODE,R/TP SOT23 12.8V 10A .A .SEC 100NA
D430	0DD414809ED	DIODE, 1N4148 TP GRANDE
D431	0DD414809ED	DIODE, 1N4148 TP GRANDE
D432	0DD414809ED	DIODE, 1N4148 TP GRANDE
D433	0DD414809ED	DIODE, 1N4148 TP GRANDE
D434	0DD414809ED	DIODE, 1N4148 TP GRANDE
D435	0DD414809ED	DIODE, 1N4148 TP GRANDE
D436	0DD414809ED	DIODE, 1N4148 TP GRANDE
D437	0DD414809ED	DIODE, 1N4148 TP GRANDE
D5	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D5	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D6	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D601	0DD226239AA	DIODE, CHIP KDS226 SOT-23
D602	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D7	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D8	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D801	0DD606000AA	DIODE, RBV606 SANKEN BK NA 600V 6A 150A NA 10UA
D810	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D821	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D822	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D824	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN

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

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
D831	0DD260000BB	DIODE, BRIDGE D2SBA60(STK) SHINDENKEN
D832	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D836	0DR010009AA	DIODE, EG01C TP SANKEN - 1000V 0.5A 10A 100NSEC 50UA
D841	0DD100009AP	DIODE, EG1ZV(1) TP SANKEN TP SANKEN
D842	0DD100009AP	DIODE, EG1ZV(1) TP SANKEN TP SANKEN
D846	0DD414809ED	DIODE, 1N4148 TP GRANDE
D851	0DD220000AC	DIODE, TO220 200V 10A 150A 40E-9 SEC 200E-6A
D861	0DD420000BB	DIODE, D4L20U SHINDENGEN
D871	0DD100009AP	DIODE, EG1ZV(1) TP SANKEN TP SANKEN
D891	0DR260001AA	DIODE, TO220 600V 6A 50A 100NSEC 0.005A
D901	0DRON00088A	DIODE, BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D902	0DRON00088A	DIODE, BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D903	0DRON00088A	DIODE, BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D904	0DRON00088A	DIODE, BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D905	0DRON00088A	DIODE, BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D906	0DSON00028A	DIODE, R/TP SC-75 70V 215MA 500MA .SEC .A
D907	0DRON00098A	DIODE, R/TP SC-75 30V 150MA 200MA .SEC .A
D908	0DZGS00108A	DIODE, R/TP DO-214AC 1.5W 15V 25MA .PF
D909	0DRGS00328A	DIODE, SS26 R/TP DO-214AC 60V 2A 75A .SEC 10MA
Q811	0DR260001AA	DIODE,TO220 600V 6A 50A 100NSEC 0.005A
ZD10K	0DZRM00178A	DIODE,R/TP SMD 0.2W 5.1V 5MA -PF
ZD11K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD12K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD13K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD14K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD15K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD1K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD2K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD4K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD5K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD603	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD604	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD6K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD7K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD841	0DZ240009DC	DIODE, MTZJ2.4B TP ROHM-K DO34 0.5W 2
ZD855	0DZ240009DC	DIODE, MTZJ2.4B TP ROHM-K DO34 0.5W 2
ZD8K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD9K	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF

CAPACITOR

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
C104	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C105	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C106	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C11	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C117	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C120	0CE106SF6DC	10UF MVG 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

LOCA. NO	PART NO	DESCRIPTION
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
C1234	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C1237	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C124	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C1246	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C125	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
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
C139	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C147	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C148	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
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
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

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RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C195	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C198	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C1K	0CE4763F618	47UF SRE 16V M FL TP5
C2	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C200	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C201	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C202	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C203	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C204	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C205	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C206	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C207	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C207	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C208	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C209	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C210	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C211	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C211	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C212	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C212	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C213	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C214	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C215	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C215	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C216	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C216	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C217	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C219	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C220	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C221	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C224	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C225	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C226	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C227	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C232	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C233	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C234	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C235	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C236	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C237	0CK224DF56A	220000PF 2012 16V 10% R/TP X7R
C238	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C240	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C249	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C260	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C261	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C262	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C27	0CE2263F618	22UF SRE 16V M FL TP5
C272	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C274	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C277	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C290	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C3	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD

LOCA. NO	PART NO	DESCRIPTION
C301	0CE106DF618	10UF STD 16V M FL TP5
C302	0CE106DF618	10UF STD 16V M FL TP5
C312	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C314	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C315	0CE107DF618	100UF STD 16V M FL TP5
C316	0CE106DF618	10UF STD 16V M FL TP5
C32	0CE4763F618	47UF SRE 16V M FL TP5
C359	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C362	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C371	0CE336SC6DC	33UF MVG 6.3V M SMD R/TP
C372	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C4	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C401	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C402	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C403	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C403	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C404	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C405	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SMD
C406	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C406	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C407	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C408	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C409	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C410	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C411	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C411	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C412	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C412	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C417	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C425	0CE477BD618	470UF KME TYPE 10V 20% FL TP 5
C426	0CE477DD618	470UF STD 10V M FL TP5
C427	0CE227BF618	220UF KME 16V M FL TP5
C428	0CE227DD618	220UF STD 10V M FL TP5
C429	0CE227BH618	220UF KME 25V M FL TP5
C430	0CE477DF618	470UF STD 16V 20% FL TP 5
C431	0CE227BH618	220UF KME 25V M FL TP5
C432	0CE107BF618	100UF KME 16V M FL TP5
C433	0CE107DD618	100UF STD 10V M FL TP5
C434	0CE107BF618	100UF KME 16V M FL TP5
C435	0CE107DD618	100UF STD 10V M FL TP5
C436	0CE107DF618	100UF STD 16V M FL TP5
C437	0CE107DD618	100UF STD 10V M FL TP5
C438	0CE107BF618	100UF KME 16V M FL TP5
C450	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C453	0CE107BF618	100UF KME 16V M FL TP5
C456	0CK105DF64A	1UF 2012 16V 20% R/TP F(Y5V)
C456	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C5	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C507	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C507	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C508	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C508	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP

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LOCA. NO	PART NO	DESCRIPTION
C509	0CE106TH6DC	10UF MV-BP 25V 20% SMD R/TP
C509	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C510	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C6	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SMD
C604	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C605	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C607	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C608	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C609	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C610	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C611	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C612	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C613	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C614	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C615	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C653	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) SMD
C7	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C8	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C800	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)
C801	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C801	0CQZVBK002C	A.C 275V 0.22UF K (S=22.5)
C810	0CF1050W470	1UF 0 500V 5% BULK M/PP NI
C811	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C812	0CK1020K945	1000PF 50V Z F TR
C816	0CE107BK618	100UF KME 50V M FL TP5
C818	181-007J	MPE ECQ-V1H564JL3(TR), 50V 0.56UF
C819	0CQ1031N509	0.01U 100V K POLY TP
C821	181-001K	CE 450V 220UF M LUG(105)
C822	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C823	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C824	0CE476BK618	47UF KME 50V M FL TP5
C825	0CE476BK618	47UF KME 50V M FL TP5
C826	181-011B	0.001UF D 1.6KV J M/PP NI FM20
C831	0CE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK
C832	0CE226BK618	22UF KME 50V M FL TP5
C833	0CE226BK618	22UF KME 50V M FL TP5
C836	181-010K	PP 0.01UF 630V 5% FM 7.5MM
C839	0CK1030K945	0.01UF 50V Z F TR
C841	0CE477BF618	470UF KME 16V M FL TP5
C842	0CE477BH618	470UF KME TYPE 25V 20% FL TP 5
C843	0CE107BF618	100UF KME 16V M FL TP5
C844	0CE107BF618	100UF KME 16V M FL TP5
C845	0CE107BF618	100UF KME 16V M FL TP5
C846	0CK1040K945	0.1UF 50V Z F TR
C851	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C852	0CE228BH61A	2200UF KME 25V M FL TP7.5
C853	0CE228BH61A	2200UF KME 25V M FL TP7.5
C854	0CE228BH61A	2200UF KME 25V M FL TP7.5
C855	0CK1040K945	0.1UF 50V Z F TR
C861	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C862	0CE228BF618	2200UF KME 16V M FL TP5
C863	0CE108BF618	1000UF KME 16V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C872	0CE108BH618	1000UF KME 25V M FL TP5
C873	0CE108BH618	1000UF KME 25V M FL TP5
C892	0CE108BK61A	1000UF KME 50V M FL TP7.5
C893	0CE108BK61A	1000UF KME 50V M FL TP7.5
C895	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C898	181-120N	1000PF 4KV M E FMTW LEAD4.5
C899	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C9	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C912	0CS226GJ6DC	22UF 7343 35V 20% SMD R/TP(SMD)
JACK		
JA1201	6613V00013H	JACK, PMJ021H PARK ELEC 3X3 6PIN
JA1202	6612VJH006D	JACK, 2X3 4PIN AD-2 MONO W/SHIELD
JA1K	380-374A	JACK, ASSY,A/V(RCA 3EA+DIN 1EA)
JA201	6613V00011A	JACK, 21P SCART+A/V 2P(MONO) WH+RD(4.5 ABOVE)
JA202	6612VMH002A	JACK, 2X21 PIN ABOVE 4.5MM FROM PCB
P101B	6612VMH003A	JACK, 36510-0032 MOLEX 48PIN PITCH2.54MM
P102B	6612VMH003A	JACK, 36510-0032 MOLEX 48PIN PITCH2.54MM
P103B	6612VMH003A	JACK, 36510-0032 MOLEX 48PIN PITCH2.54MM
P401B	6612VMH003A	JACK, 36510-0032 MOLEX 48PIN PITCH2.54MM
P402B	6612VMH003A	JACK, 36510-0032 MOLEX 48PIN PITCH2.54MM
P403	6612BBBHN6A	JACK, 440062-1 AMP DVI INTERACED RIGHT ANGLE
COIL & TRANSFORMER		
L1	0LC3332101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L101	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L101	0LC0233002A	INDUCTOR, 3.3UH R/TP
L102	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L103	0LC0233002A	INDUCTOR, 3.3UH R/TP
L106	0LC0233002A	INDUCTOR, 3.3UH R/TP
L107	0LC2220101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L108	0LC2220101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L109	0LC2220101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L110	0LC6832101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L111	0LC6832101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L112	0LC6832101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L113	0LC6832101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L114	0LC6832101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L117	0LC2220101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L120	0LC0233002A	INDUCTOR, 3.3UH R/TP
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
L121	0LC0233002A	INDUCTOR, 3.3UH R/TP
L122	0LC0233002A	INDUCTOR, 3.3UH R/TP
L2	0LC3332101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L202	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L203	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L204	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT

LOCA. NO	PART NO	DESCRIPTION
L205	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L206	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L207	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L208	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L209	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L211	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L212	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L213	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L214	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L215	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L216	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L218	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L219	0LC1032101A	INDUCTOR, 33UH 10% 3216 R/TC FI-D3216-333KJT
L301	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L302	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L302	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L303	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L3K	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L400	0LC6461201A	INDUCTOR, - TOKO R/TP
L401	0LC2220101A	INDUCTOR, 2.2UH 10% 2012 R/TC FI-B2012-222KJT
L402	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L403	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L405	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L5	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L504	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L505	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L506	0LC4732101A	INDUCTOR, 4.7UH 10% 3216 R/TC FI-B3216-472KJT
L507	0LC4732101A	INDUCTOR, 4.7UH 10% 3216 R/TC FI-B3216-472KJT
L508	0LC4732101A	INDUCTOR, 4.7UH 10% 3216 R/TC FI-B3216-472KJT
L6	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L600	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L601	0LCML00002B	INDUCTOR, MLB-321611-0050P-N1 6A MAG LAYERS R/TP
L601	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
L700	0LCML00004A	INDUCTOR, MLB-160808-0068L-N2 1A MAG LAYERS R/TP
L702	0LCML00004A	INDUCTOR, MLB-160808-0068L-N2 1A MAG LAYERS R/TP
L704	0LCML00002B	INDUCTOR, MLB-321611-0050P-N1 6A MAG LAYERS R/TP
L705	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L8	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L800	0LCML00004A	INDUCTOR, MLB-160808-0068L-N2 1A MAG LAYERS R/TP
L841	150-C02F	COIL,CHOKE 82UH PHY TURN
L842	150-C02F	COIL,CHOKE 82UH PHY TURN
L851	150-C02G	COIL,CHOKE CHOKE 90UH R 1824
L861	150-C02F	COIL,CHOKE 82UH PHY TURN
L871	150-C02F	COIL,CHOKE 82UH PHY TURN
L891	150-C02F	COIL,CHOKE 82UH PHY TURN
L9	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L901	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L902	0LCML00004A	INDUCTOR, MLB-160808-0068L-N2 1A MAG LAYERS R/TP

LOCA. NO	PART NO	DESCRIPTION
L903	6140VR0007A	COIL, DT1608C-223 COILCRAFT 22UF+-20% 0.5A
L904	6140VR0007A	COIL, DT1608C-223 COILCRAFT 22UF+-20% 0.5A
L906	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L907	0LCML00003A	INDUCTOR, MLB-201209-0600L-N2 0.5A MAG LAYERS R/TP
L908	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L909	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
L910	0LCML00003B	INDUCTOR, MLB-201209-0120P-N2 5A MAG LAYERS R/TP
T801	6170VMCA03E	TRANSFORMER,EER4942 650UH STRF6668 D535
T802	6170VS0006A	TRANSFORMER,STAND-BY EE2229 2900UH MB02JA
T811	6170VMCA37B	TRANSFORMER,SMPS[COIL] PQ3535 310UH MC33262
CONNECTOR		
P101A	6932V25004A	CONNECTOR, 36512-0098 48 2.54 D-TV(DIN 41612)
P102A	6932V25004A	CONNECTOR, 36512-0098 48 2.54 D-TV(DIN 41612)
P103A	6932V25004A	CONNECTOR, 36512-0098 48 2.54 D-TV(DIN 41612)
P111	366-043A	CONNECTOR, ASSY,PLUG(1P)
P1600	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S (STICK)
P1601	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S (STICK)
P2	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390 J-MOLEX SMD-TAPING
P201A	6932V25004A	CONNECTOR, 36512-0098 48 2.54 D-TV(DIN 41612)
P202A	6932V25004A	CONNECTOR, 36512-0098 48 2.54 D-TV(DIN 41612)
P203A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S (STICK)
P203B	366-922B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE R/A (B TO C)
P3	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390
P301	366-921F	CONNECTOR, 2.5MM 7P GIL-G LG CABLE .
P4	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390s
P400	6630V800108	CONNECTOR, 794680-8 AMP 8P 3.0MM
P401	366-922E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE R/A (B TO C)
P402	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE .
P403	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S (STICK)
P404	6630VGA004A	CONNECTOR, 68107-0922 MOLEX 9PIN 2.77MM
P5	6602V12001A	CONNECTOR, 1.25MM 2P 53261-0290
P502B	6630V800208	CONNECTOR, 794636-8 AMP 8P 3.0MM
P5A	366-932F	CONNECTOR, IL-G LGC 7 2.5S STICK
P5B	366-922F	CONNECTOR, 2.5MM 7P GIL-G LG CABLE R/A (B TO C)
P6	366-169B	CONNECTOR, WAFER 2MM,3PIN,GIL-S
P601	6602V12001B	CONNECTOR, 1.25MM 3P 53261-0390
P601A	366-932L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE S (STICK)
P601B	366-932L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE S (STICK)
P602	6630VE00204	CONNECTOR, 10003HR-04 YEONHO 4P 1.0MM FPC
P603	6630BX05007	CONNECTOR, 53261-0590 MOLEX 5PIN 1.25MM ANGLE SN
P800A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P800B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P800C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P802A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P802B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P802C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P803A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO

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

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
P803A	366-932E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE S (STICK)
P803B	366-922E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE R/A (B TO C)
P803B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P804A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P804B	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
P806A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P806B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P811	6602V39002A	CONNECTOR, 3.96MM 2P YW396-03AV
P811	6631V00004J	CONNECTOR ASSEMBLY 3P 3.96MM 600MM
P826A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P826B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P841A	366-932E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE S (STICK)
P851	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P851A	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE .
P890A	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S (STICK)

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
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
FB861	0RP0020J809	0.02 OHM 1 W 20% TA52
FB861	0RP0050H709	0.05 OHM 1/2 W 10% TA52
FB871	0RP0020J809	0.02 OHM 1 W 20% TA52
FB871	0RP0050H709	0.05 OHM 1/2 W 10% TA52
FB891	0RP0050H709	0.05 OHM 1/2 W 10% TA52
FB891	0RP0020J809	0.02 OHM 1 W 20% TA52
FR831	0RF0221H609	2.2 OHM 1/2 W 5.00% TA52
R104	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
R401	0RN1801F409	1.8K OHM 1/6 W 1.00% TA52
R402	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R407	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R408	0RN2001F409	2K OHM 1/6 W 1.00% TA52
R409	0RN2001F409	2K OHM 1/6 W 1.00% TA52
R411	0RN2001F409	2K OHM 1/6 W 1.00% TA52
R425	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R426	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R556	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R557	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R558	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R559	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R560	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R561	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES HN-61A40R
R68	0RD1001F609	1K OHM 1/6 W 5% TA52
R801	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR(METAL GLAZED TYPE)
R802	0RD0392F609	39 OHM 1/6 W 5.00% TA52
R803	180-A01B	RW ROUND G 2W 0.11 K TA31(63)
R804	0RD2202F609	22K OHM 1/6 W 5% TA52
R805	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R806	0RD0152F609	15 OHM 1/6 W 5.00% TA52
R808	0RS2702K607	27K OHM 2 W 5.00% TA62
R809	0RS1802K607	18K OHM 2 W 5.00% TA62
R811	0RN3903F409	390K 1/6W 1% TA52
R812	0RN3903F409	390K 1/6W 1% TA52
R813	0RN3903F409	390K 1/6W 1% TA52
R814	0RN3303F409	330K OHM 1/6 W 1.00% TA52
R815	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R816	0RN3903F409	390K 1/6W 1% TA52
R817	0RN3903F409	390K 1/6W 1% TA52
R818	0RN3903F409	390K 1/6W 1% TA52
R819	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R820	0RD1202F609	12K OHM 1/6 W 5% TA52
R821	180-A01M	0.22 OHM 2 W 5% TA62 RW ROUND G 2W 0.22 J TA31(63)
R822	0RD1001F609	1K OHM 1/6 W 5% TA52
R823	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R824	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R826	0RS2702K607	27K OHM 2 W 5.00% TA62
R827	0RS2702K607	27K OHM 2 W 5.00% TA62
R831	0RS0161K607	1.6 OHM 2 W 5.00% TA62
R832	0RD4702F609	47K OHM 1/6 W 5% TA52
R833	0RS1203K607	120K OHM 2 W 5.00% TA62
R834	0RD0222H609	22 OHM 1/2 W 5.00% TA52
R836	0RS1203K607	120K OHM 2 W 5.00% TA62
R841	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R842	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R843	0RD1001F609	1K OHM 1/6 W 5% TA52
R844	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R844	0RD1001F609	1K OHM 1/6 W 5% TA52
R845	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R846	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R847	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R848	0RD0102F609	10 OHM 1/6 W 5% TA52
R855	0RN1501F409	1.5K OHM 1/6 W 1.00% TA52
R856	0RN3301F409	3.3K OHM 1/6 W 1.00% TA52
R857	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R858	0RD2400F609	240 OHM 1/6 W 5.00% TA52
R859	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R891	0RD1002H609	10K OHM 1/2 W 5.00% TA52

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CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R899	0RKZVTA001D	10M OHM 1/2 W 5% TA52 UL PILKOR(METAL GLAZED TYPE)
R90	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
	SWITCH	
SW1	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW2	140-313A	SWITCH,TACT TACT 2LEAD 100G(TA) LG C&D NON 5V 0.001A
SW2	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW3	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW4	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW5	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW6	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW7	140-313B	SWITCH,TACT TACT 2LEAD 160G(TA) LG C&D NON
SW701	6600DU2093H	SWITCH,DIP 2-390233-2 AMP 0 . DIP 4PIN
SW801	6600VM2002A	SWITCH,PUSH SDKEA3 ALPS IEC 250V 8A
	FILTER & CRYSTAL	
FB821	125-022K	FILTER, FERRITE 1UH TAPING
FB822	125-022K	FILTER, FERRITE 1UH TAPING
FB826	125-022K	FILTER, FERRITE 1UH TAPING
FB851	125-123A	FILTER, FERRITE BFD3565R2F(TAPING)
FB861	125-123A	FILTER, FERRITE BFD3565R2F(TAPING)
L801	150-F09C	FILTER, SQE2828 18-35MH PHY TURN
L801	150-F06T	FILTER, SQE3535 20MH PHY TURN
L802	150-F09C	FILTER, SQE2828 18-35MH PHY TURN
L802	150-F06T	FILTER, SQE3535 20MH PHY TURN
L803	150-F06T	FILTER, SQE3535 20MH PHY TURN
T104	6200C000012	FILTER, TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
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
T250	6200C000012	FILTER, TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T251	6200C000012	FILTER, TH355LSK-K5218 KOREA TOKO BK 4FW TYPE
T400	6200QJ3001A	FILTER,EMI REEL/TAPING BMS400 NIGATA 25V 200MA
T400	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T401	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T401	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T402	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T402	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T403	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T403	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T406	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T407	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T408	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T409	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T410	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T411	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T413	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T414	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T415	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T416	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T417	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T418	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA

LOCA. NO	PART NO	DESCRIPTION
T419	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T420	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T421	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T422	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T423	6200QJ3001A	FILTER, 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, REEL/TAPING BMS400 NIGATA 25V 200MA
T427	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T428	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T430	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T431	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T432	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T434	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T438	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T440	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T442	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T444	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T445	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T446	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T447	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T448	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T501	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T502	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T504	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T509	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T511	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T512	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T513	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T514	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T515	6200VJT006A	FILTER, STC222D NIIGATA 50VOLT 4A 2200PF
T601	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T602	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T603	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
T604	6200QJ3001A	FILTER, REEL/TAPING BMS400 NIGATA 25V 200MA
X1	156-A01L	RESONATOR,CRYSTAL 6.000MHZ 30PPM 16PF BK
X101	6202VDT002E	RESONATOR,CRYSTAL 20250000HZ 30PPM 16PF TP
X102	6202VDT002E	RESONATOR,CRYSTAL 20250000HZ 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
X601	156-A02M	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM 10PF BK
	ACCESSORIES	
A1	3828VA0394T	MANUAL,OWNERS,MB02JB UK/WTY LG EN 100K/092V
A1	3828VA0394R	MANUAL,OWNERS, DG/BN/ GE/FR/NE/EN 100K
A1	3828VA0394G	MANUAL,OWNERS, ES/PT LG SP/PO 100K/092V
A1	3828VA0394F	MANUAL,OWNERS, IS/REG/ LG IT 100K/092V
A1	3828VA0394K	MANUAL,OWNERS, SW LG DA/SW/NO/FI 100K/092V TX
A1	3828VA0394L	MANUAL,OWNERS, MK/REG/SPEC LG HU/EN 100K/092V
A1	3828VA0394M	MANUAL,OWNERS, MB02JB PL/SPEC LG PL/EN 100K/092V
A2	3828VD0133L	MANUAL,SERVICE, MB02JB RE/RL-44SZ21R LG EU

LOCA. NO	PART NO	DESCRIPTION
A3	6710V00100K	REMOTE CONTROLLER, W/PIP W/O TXT
A4	174-224G	POWER CORD, H03VVH2-F VOLEX BSI 2000MM HSG
A4	174-322C	POWER CORD, POWER W/FILTER L=50(179B)V
MISCELLANEOUS		
F800	131-098B	FUSE,4000MA 250 V 5.2X20 CY/GL SEMKO / VDE / BSI
IC3	6620VF3201A	SOCKET(CIRC),IC 822473-3 AMP 32PIN 2.54MM
NTC801	163-048D	THERMISTOR KL15L2R5 SSANSHIN +/- 15% 125V
NTC802	163-048D	THERMISTOR KL15L2R5 SSANSHIN +/- 15% 125V
PRE01	6726VH0001A	REMOTE CONTROLLER RECEIVER TEMIC 38KHZ
RL846	141-018F	RELAY DG5D1-0-2 DAIICHI 5V 0.000106A 250V 5A OHM 1A
TU101	6700MF0001H	TUNER TAFD-M232D LG MULTI FS 3SYS,2IN1,DIN
TU101	6700SL0001D	TUNER TAFD-S212D LG SECAM-L2 FS 2IN1, DIN
VA800	164-003K	VARISTOR SVC621D-14A ILJIN 620V 0% UL/CSA/VDE BK
X300	6204B60001A	OSCILLATOR, 13.5MHZ +/- 25 PPM 3.3V T/R VCXO
X301	6204B47985A	OSCILLATOR,27MHZ +/- 100 PPM 3.3V T/R DLP 44

LOCA. NO	PART NO	DESCRIPTION

DRIVER POWER

DLP ONLY USE

LCD ONLY USE

IC1601 LA4282 L/R AMP

HEAT SINK(L)

USE 3D_DCF FOR KOR/USA

USE FOR EUR/AUS WITH TXT

	R203	R205	R288
KOREA/US	OPT	00hm	10Ω OHM
EUROPE	OPT	00hm	OPT
CHINA	00hm	OPT	OPT

DIGITAL B/D PACK

COMPONENT/PC PACK

ANALOG TUNER B/D PACK

MAIN BOTTOM B/D

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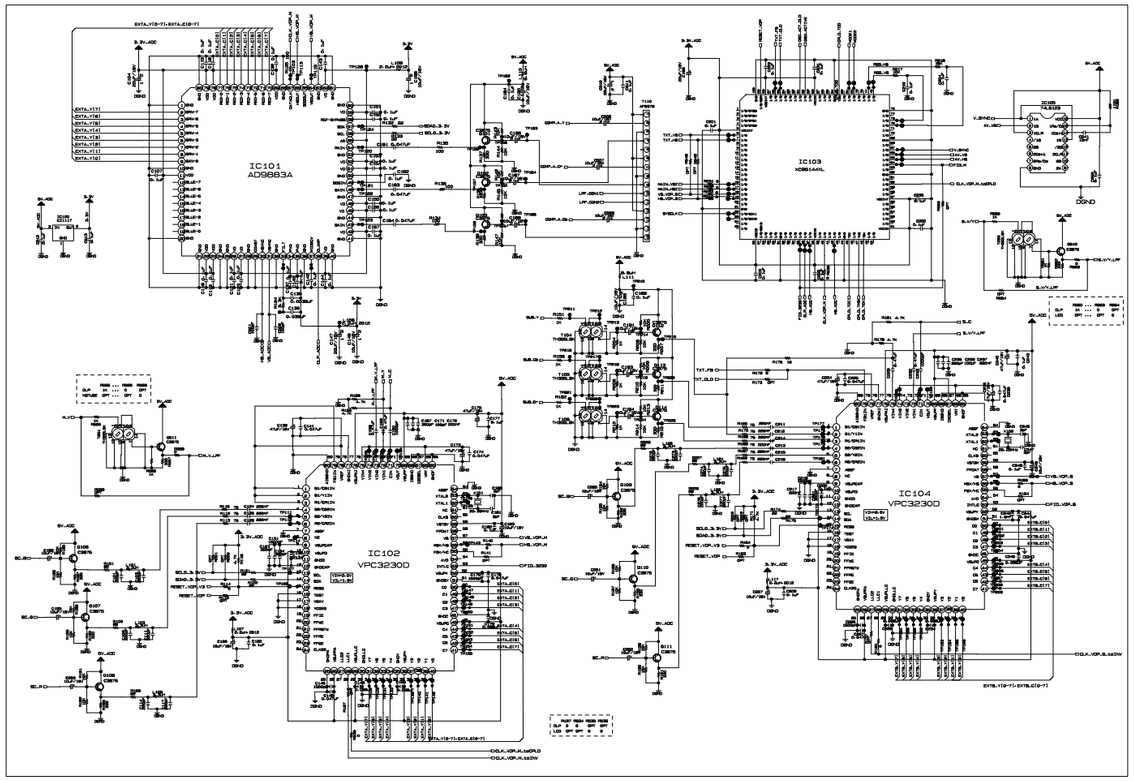
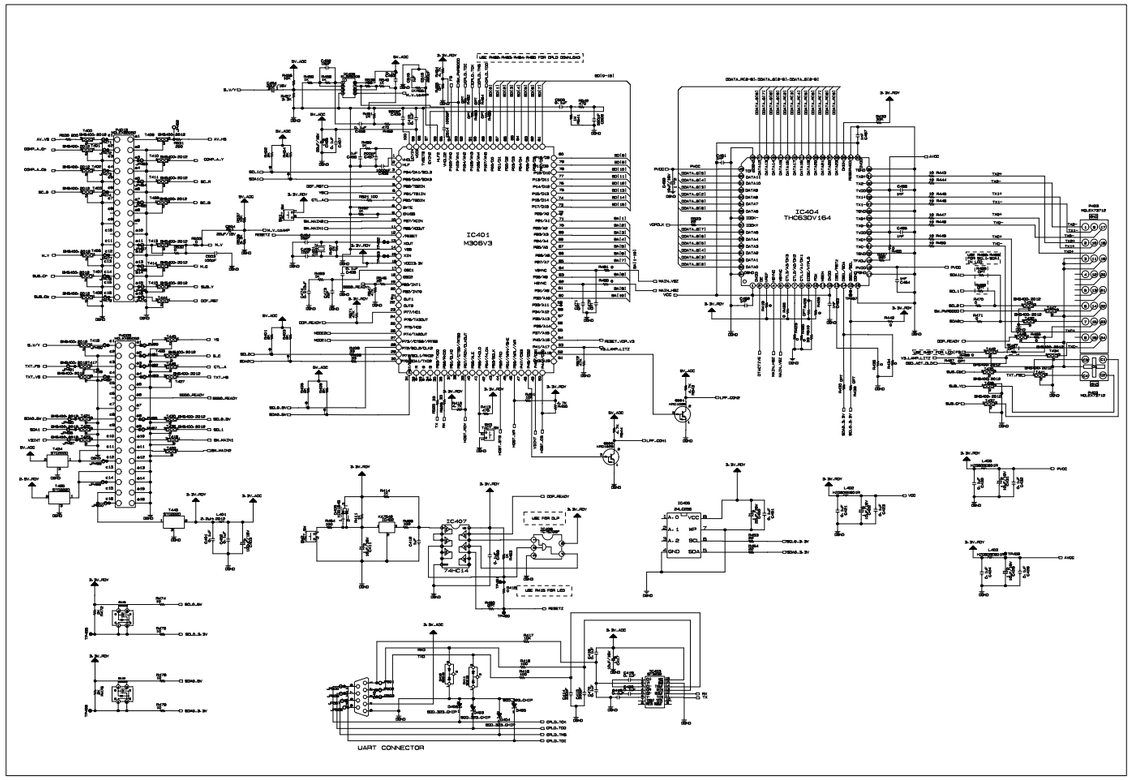
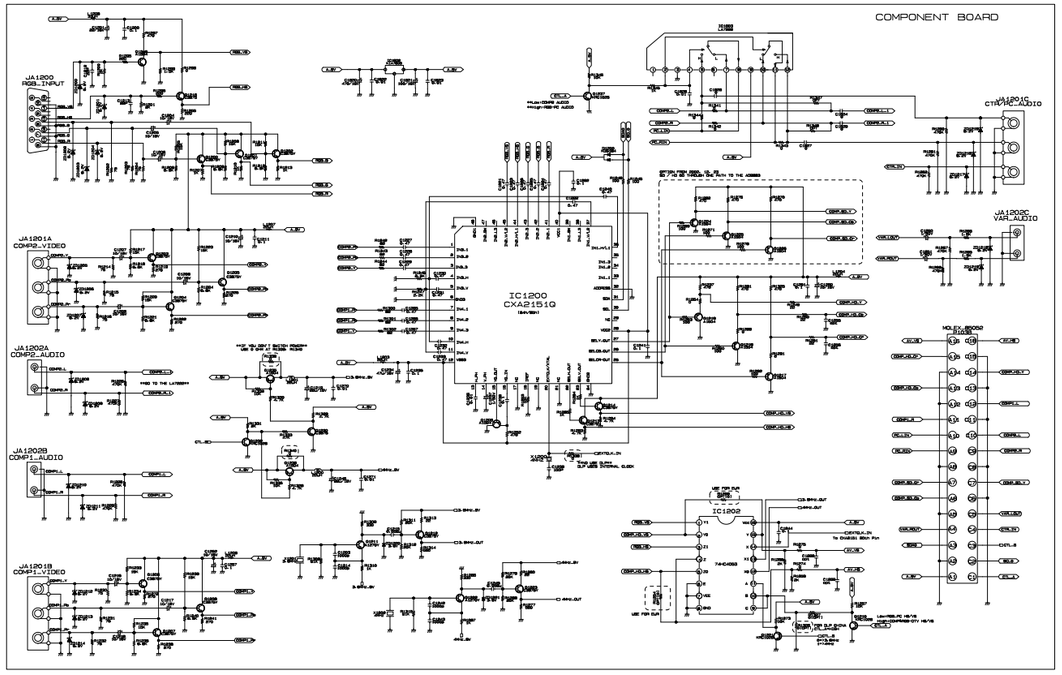
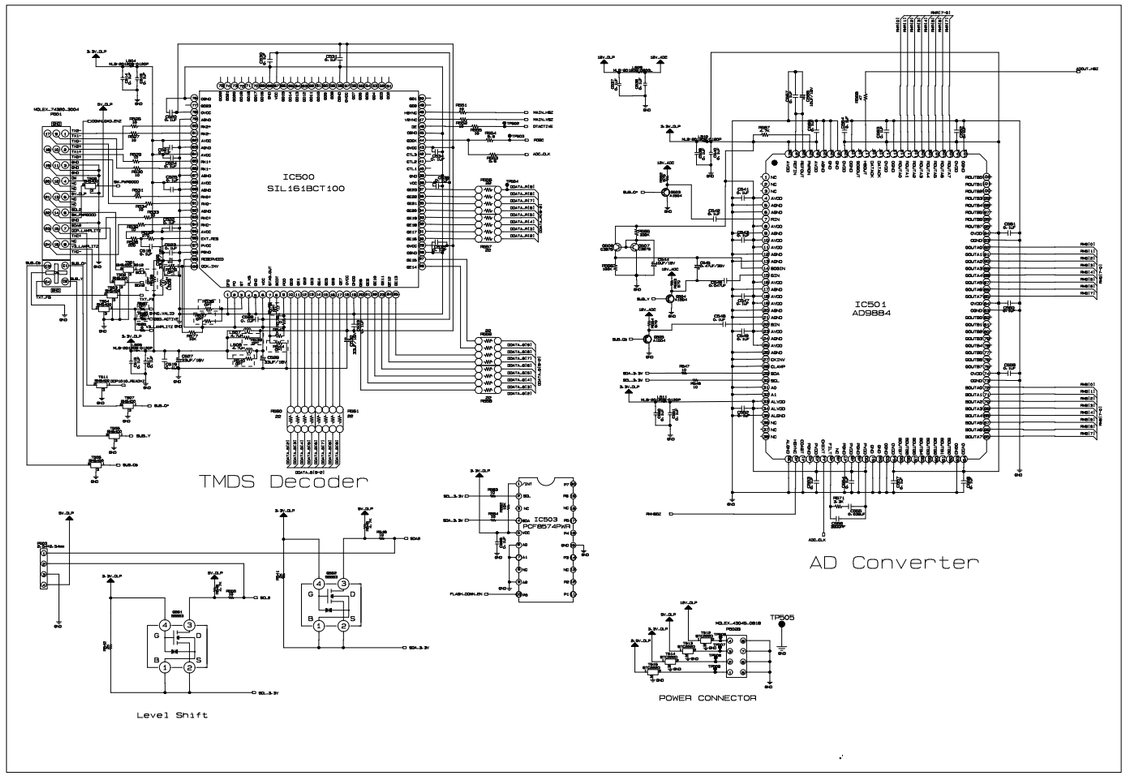
2003.05.06

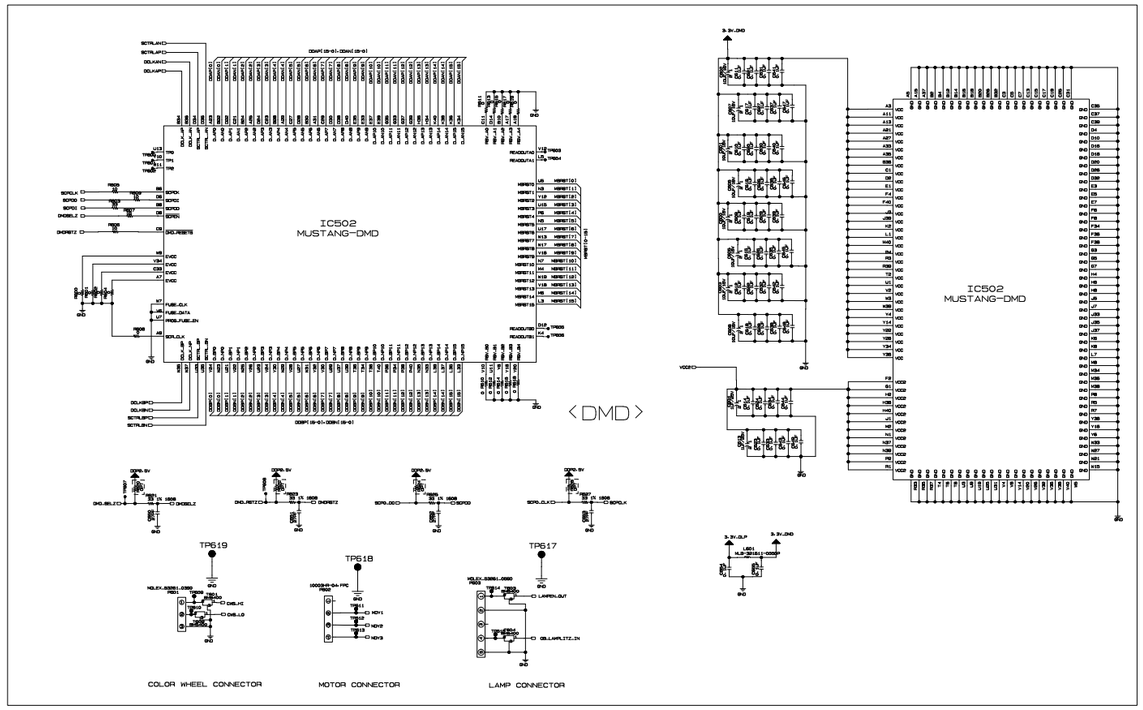


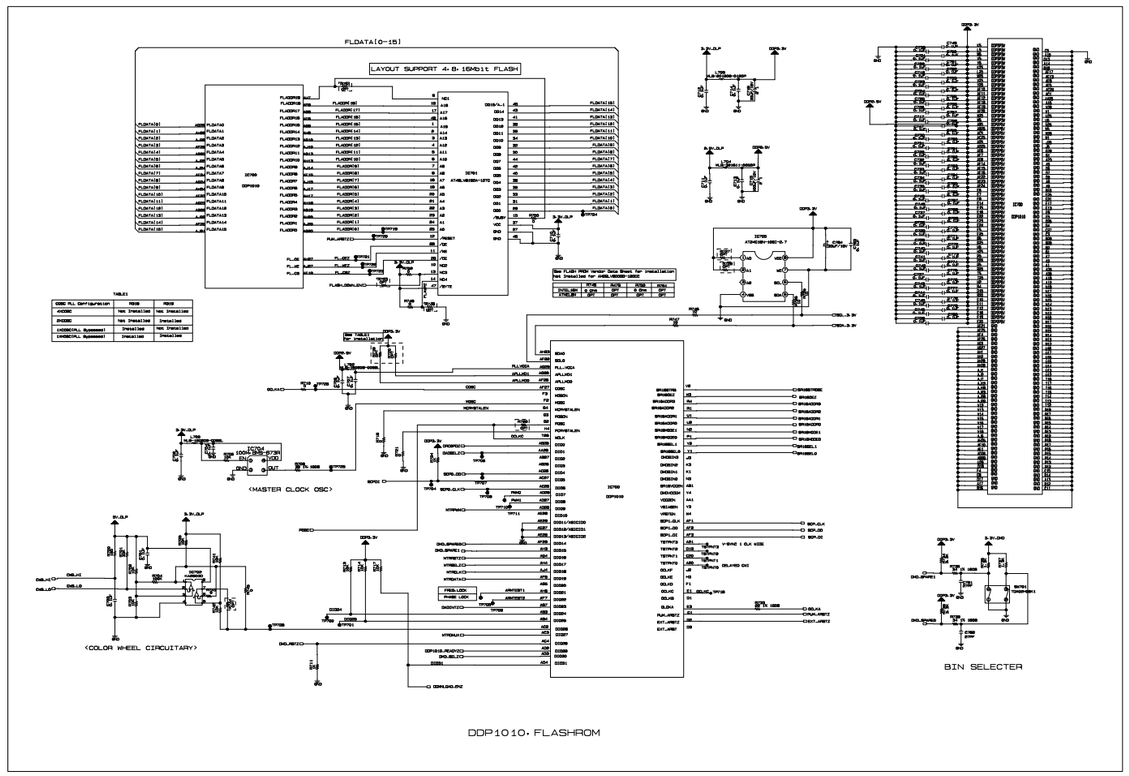


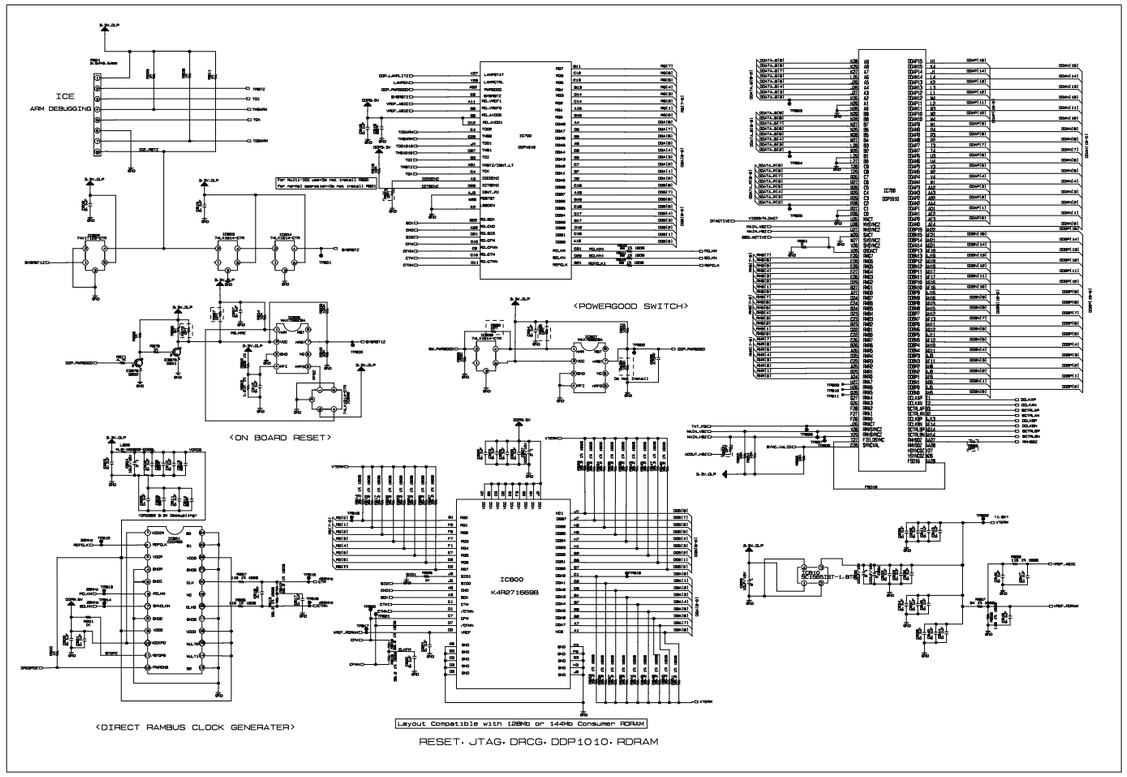


P/No : 3854VA0114E-S1(2/2)
2003.05.06

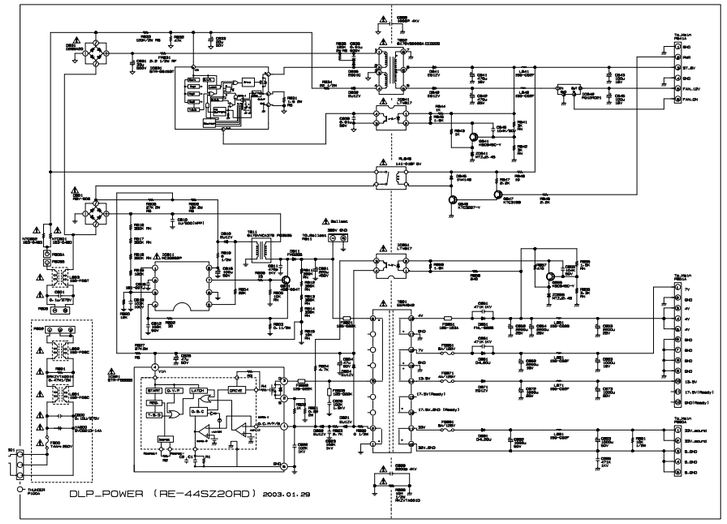


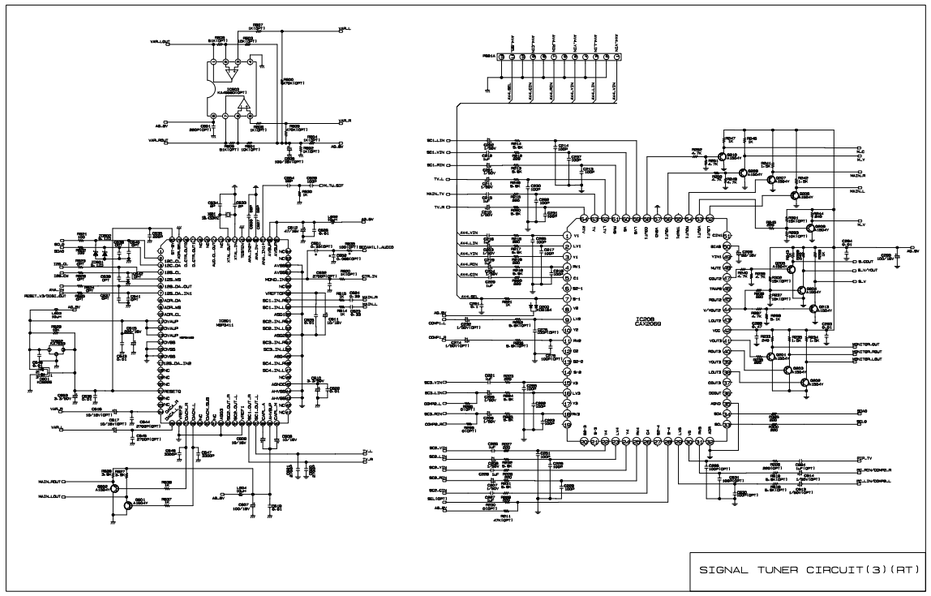


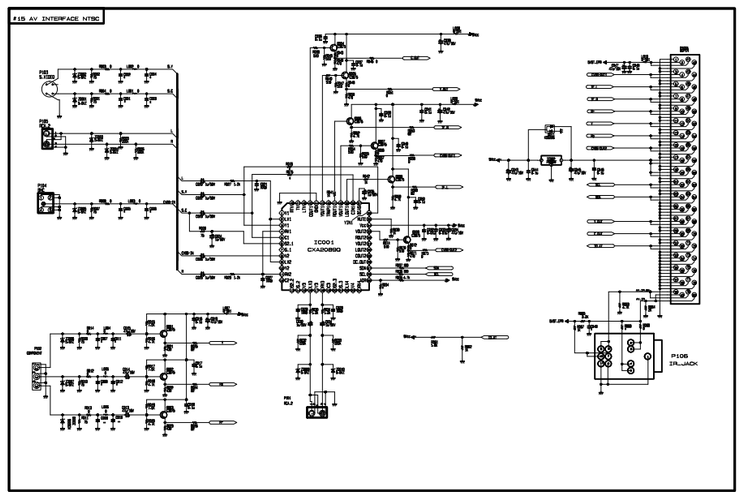


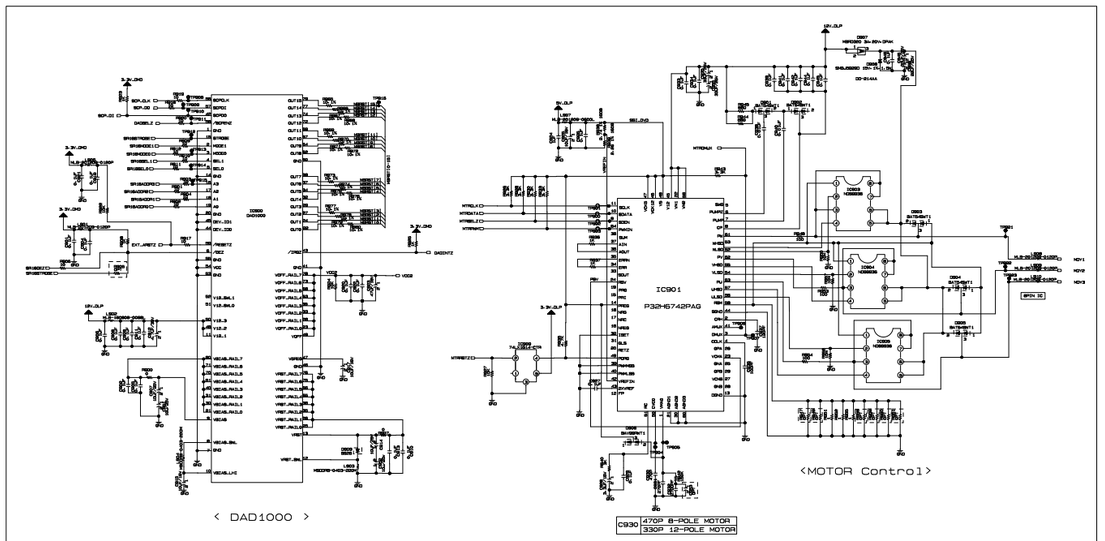


P/No : 3854VA0114E-S2(1/2)
2003.05.06

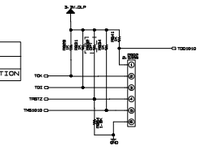


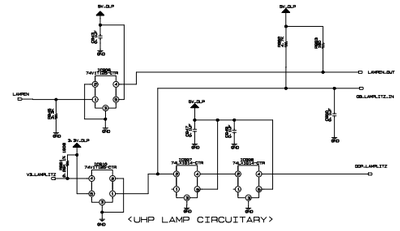


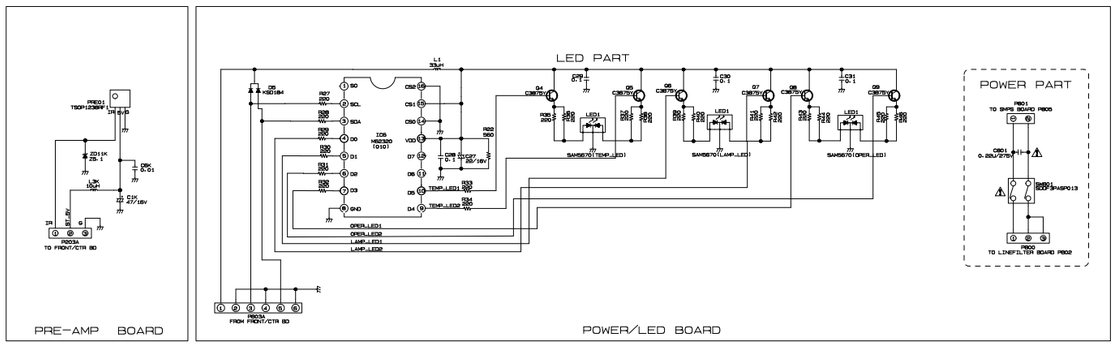


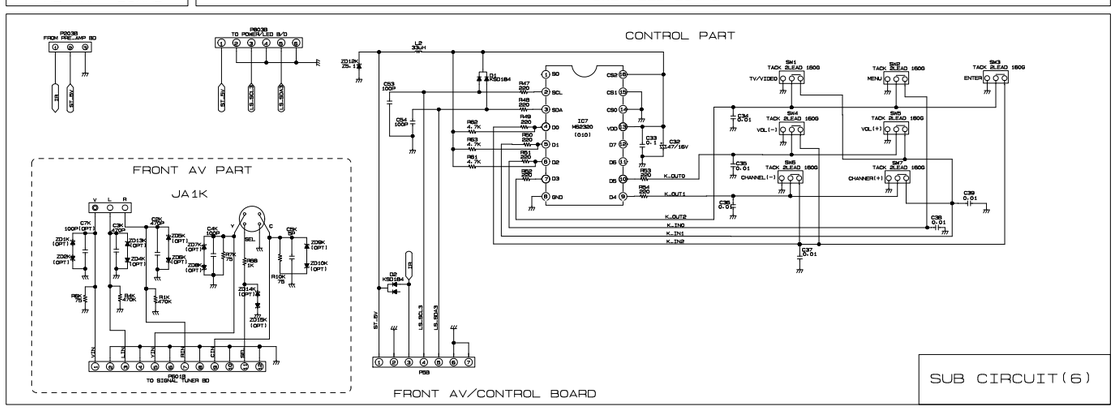


TRSTZ	
R932	PULL-UP WHEN ICE
R964	PULL-DOWN WHEN NORMAL OPERATION









P/No : 3854VA0114E-S2(2/2)
2003.05.06

SVC. SHEET : 3854VA0114E-S1
3854VA0114E-S2

P/NO : 3828VD0133L

Jul.,2003
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