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# LCD TV **SERVICE MANUAL**

**CHASSIS : LA61A**

**MODEL : 42LB1DR-UA / 42LB1DRA-UA**

## **CAUTION**

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



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# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  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 Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

### Before returning the receiver to the customer,

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

### Leakage Current Cold Check(Antenna Cold Check)

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

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

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

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

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

#### Do not use a line Isolation Transformer during this check.

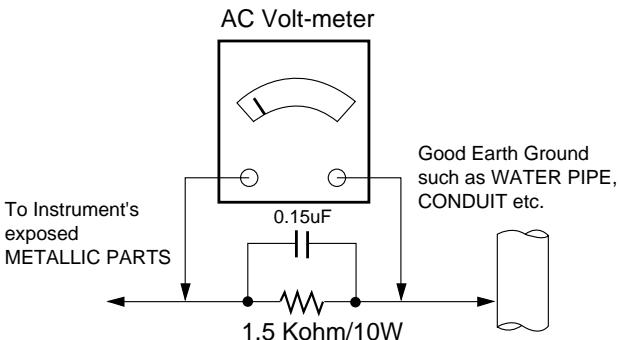
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

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

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

### Leakage Current Hot Check circuit



# SERVICING PRECAUTIONS

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

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

## General Servicing Precautions

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

**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

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. Do not spray chemicals on or near this receiver or any of its assemblies.

4. 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 non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

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

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

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.

6. 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.

7. 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.

8. *Use with this receiver only the test fixtures specified in this service manual.*

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

## Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called

**Electrostatically Sensitive (ES) Devices.** Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

## General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500 °F to 600 °F.

2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following unsoldering technique

- a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)

- b. Heat the component lead until the solder melts.

- c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.

**CAUTION:** Work quickly to avoid overheating the circuitboard printed foil.

6. Use the following soldering technique.

- a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)

- b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

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

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

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

## **IC Remove/Replacement**

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

### **Removal**

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

### **Replacement**

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

## **"Small-Signal" Discrete Transistor**

### **Removal/Replacement**

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

## **Power Output, Transistor Device**

### **Removal/Replacement**

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink 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 heat sink.

## **Diode Removal/Replacement**

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

## **Fuse and Conventional Resistor**

### **Removal/Replacement**

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

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

## **Circuit Board Foil Repair**

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

### **At IC Connections**

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

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

### **At Other Connections**

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

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

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

# SPECIFICATION

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

## 1.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43	
2.	Receivable Broadcasting System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L' 5) NTSC M	(ZE/TE) EU/Non-EU (PAL Market)
		6) PAL-N/M 7) NTSC M	6),7) South America Market 7) Except South America NTSC Market (ME)
3.	RF Input Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S47	PAL
		L/L' : B, C, D	FRANCE
		VHF : 2~13 UHF : 14~69 CATV : 1~125	NTSC
		VHF Low : 1 ~ M10 VHF High : 4~S22 UHF : S23~62	JAPAN
4.	Input Voltage	AC 100 ~ 240 V/50Hz, 60Hz	
5.	Market	Worldwide	
6.	Picture Size	1067.308mm	42.02inch(42LB1R)
7.	Tuning System	FVS 100 program FS	PAL, 200 PR.(Option) NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 %	
9.	Storage Environment	3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %	
10.	Display	LCD Module	LPL

## 2. General Specification

No	Item	Specification			Remark
1	Panel	42" TFT WXGA LCD			
2	Frequency range	H : 31 ~ 61Khz V : 56 ~ 75Hz			PC Input
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset			
4	Component Jack	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready			Middle east / NTSC Area
	D4 Jack(525i, 525p, 750p,1125i)	2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH			JAPAN Only
5		H/V-Sync	Video	Power consumption	LED
	Power ON	-	-	≤ 240W	
	Stand by			≤ 3.0W	Red
	DPMS Mode	ON/OFF	OFF	≤ 30W	Green
	Power off	-	-	-	*
6	LCD Module	Outline Dimension	42"	1006 x 610 x 56(mm)	(H)x(V)x(D)
		Pixel Pitch	42"	0.227 x 0.681 x RGB(mm)	
		Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement		
		Coating	Hard coating(3H), Anti-glare treatment of the front polarizer,		
		Back Light	42"	20EEFL	

### 3.Optical Feature(LCD Module)

No.	Item	Specification				Remark
			Min	Typ	Max	
1	Viewing Angle<CR ≥10>	R/L, U/D		176, 176		
2	Luminance	Luminance(cd/m <sup>2</sup> )		500		
		Variation			1.3	Typical
3	Contrast Ratio	CR	300	400		MAX/MIN
		CRD (With AI)	700	1000		ALL white/All back
4	CIE Color Coordinates	WHITE	W <sub>x</sub>	Typ.	0.285	LPL
		WHITE	W <sub>y</sub>	Typ.	0.293	
		RED	R	Typ.	0.640	
		RED	R <sub>y</sub>	Typ.	0.341	
		GREEN	G <sub>x</sub>	Typ.	-0.03	Typ.
		GREEN	G <sub>y</sub>	Typ.	0.287	
		BLUE	B <sub>x</sub>	Typ.	0.610	
		BLUE	B <sub>y</sub>	Typ.	0.146	
					0.069	

### 4.Component Video Input (Y, Pb, Pr)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)		
1.	640x480	15.73	60	SDTV, DVD 480i	ZE, TE, ME
2.	640x480	15.63	59.94	SDTV, DVD 480i	ZE, TE, ME
3.	720x480	31.47	59.94	EDTV 480p	TE, ME
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	ZE, TE, ME
5.	720x576	31.25	50.00	HDTV 576p	TE, ME
6.	1280x720	45.00	60.00	HDTV 720p	TE, ME
7.	1280x720	44.96	59.94	HDTV 720p	TE, ME
8.	1920x1080	31.25	50.00	HDTV 1080i 50Hz (AU Ver.)	TE, ME
9.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	TE, ME
10.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	TE, ME

### 5. RGB PC INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported

## 6. RGB DTV INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1	720x576	31.25	50.00	SDTV 576p 50Hz	
2	720x480	31.47	59.94	SDTV 480p 60Hz	
3	1280x720	45.00	50.00	HDTV 720p 50Hz	HDCP
4	1280x720	44.96	59.94	HDTV 720p 60Hz	HDCP
5	1920x1080	28.13	50.00	HDTV 1080i 50Hz	HDCP
6	1920x1080	33.72	59.94	HDTV 1080i 60Hz	HDCP

## 7. HDMI PC INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

## 8. HDMI DTV INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1	720x576	31.25	50.00	SDTV 576p 50Hz	
2	720x480	31.47	59.94	SDTV 480p 60Hz	
3	1280x720	45.00	50.00	HDTV 720p 50Hz	HDCP
4	1280x720	44.96	59.94	HDTV 720p 60Hz	HDCP
5	1920x1080	28.13	50.00	HDTV 1080i 50Hz	HDCP
6	1920x1080	33.72	59.94	HDTV 1080i 60Hz	HDCP

## 9. Mechanical specification

No,	Item		Content			Remark
1	Product Dimension		Width(W)	Length(D)	Height(H)	
		Before Packing	1175	300	768	With Stand
		After Packing	1282	386	920	
2	Product Weight	Only SET	43.4Kg			With Stand
		With Box	48.2kg			

## 10. Mechanical specification

<Table 1> Scart Arrangement 1.(Full Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 kΩ
2	Audio Input B (right)	0.5 Vrms	> 10 kΩ
3	Audio Output A (left)	0.5 Vrms	< 1 kΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 kΩ
7	Blue input	0.7 V	75 Ω
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 kΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 Ω
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	RGB Switching Control	High (1 - 3V) - RGB Low (0 - 0.4V) - Composite	75 Ω
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

<Table 2> Scart Arrangement 2.(Half Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 kΩ
2	Audio Input B (right)	0.5 Vrms	> 10 kΩ
3	Audio Output A (left)	0.5 Vrms	< 1 kΩ
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 kΩ
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 kΩ
9	Ground (Green)	-	-
10	Comms Data 2		
11	-	-	-
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input		
16	-	-	-
17	Ground (Video input & Output)	-	-
18	-	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
21	Common ground (Shield)	-	-

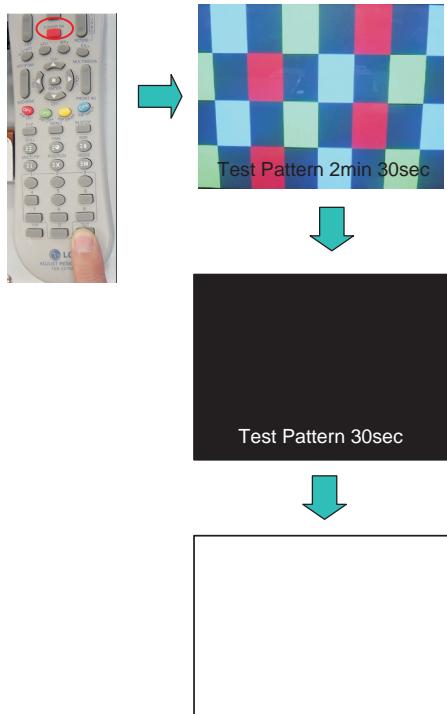
# ADJUSTMENT INSTRUCTION

## 1. Application Object

These instructions are applied to all of the PDP TV, PA61A.

## 2. Notes

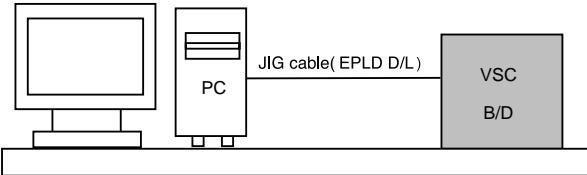
- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
  - (2) Adjustments must be done in the correct order.
  - (3) The adjustments must be performed in the circumstance of  $25\pm5^{\circ}\text{C}$  of temperature and  $65\pm10\%$  of relative humidity if there is no specific designation.
  - (4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
  - (5) The receiver must be operational for about 15 minutes prior to the adjustments.
- o Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.
  - o Test for afterimage discharge detection
    - 1) After pressing Power Only key(only operating by pressing Power Only key), Full Test Pattern(2 min 30sec) --> Full Black Pattern(30sec) --> After this state, Full White Pattern is displayed.  
(but you must preset the program for Full White State when you press the Main Power Off/On)
    - 2) Pattern Mode is deselected by pressing CH +/-, Exit Key.



[ Set is activated HEAT-RUN without signal generator in this mode.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

## 3. CPLD Download

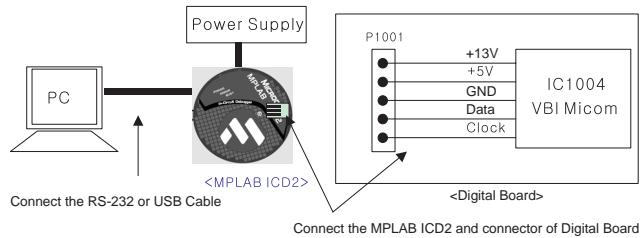


- (1) Test Equipment: PC, Jig for download
- (2) Connect the power of VSC B/D.
- (3) Execute download program(iMPACK) of PC.
- (4) After executing the hot key on the Programmer, click icon
- (5) End after confirming

## 4. Gemstar VBI Micom Download

### 4-1. Preparation for Adjustment

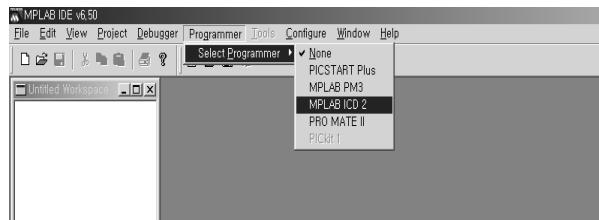
- (1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
- (2) Turn on the MPLAB ICD2 POWER Supply.



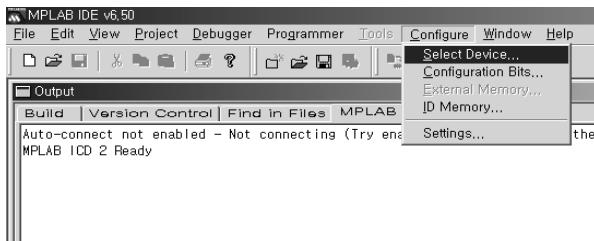
- (3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.

### 4-2. Adjustment Sequence

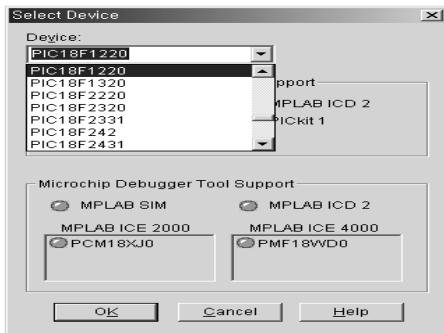
- (1) When the program is executed, select the MPLAB ICD2 from Programmer -> Select Programmer .



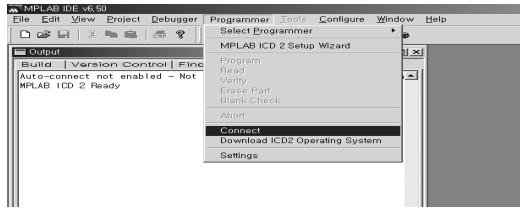
(2) Select "Configure -> Select Device".



(3) When the "Select Device" window appears, select the PIC18F1220 from "Device" and press OK.

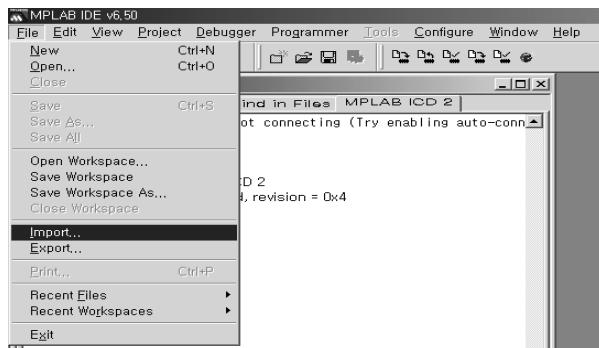


(4) Select "Programmer -> Connect".

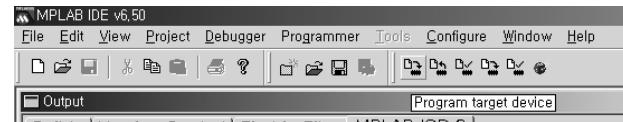
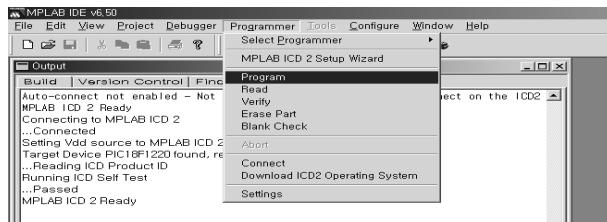


When connected with the Micom, the display message on the Output window appears as below.

(5) Select "File -> Import", select the Work HEX file and open.



(6) Select "Programmer -> Program".



(7) Download is executed and about 5 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

(8) The execution of process (6) is convenient when using the short-cut icon.

## 5. POD Certificate Download

### 5-1. Preparation for Adjustment

(1) Connect the MEMORY JIG and PC.

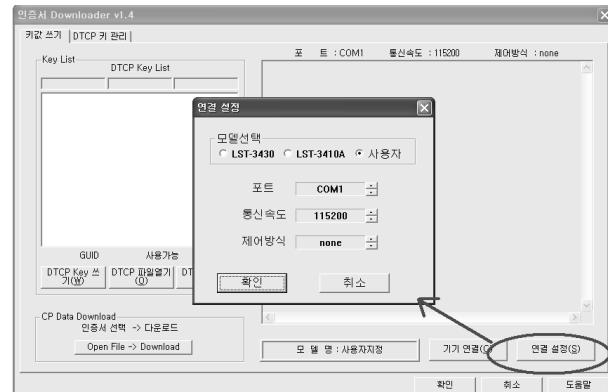
(2) Turn on the JIG MAIN POWER SWITCH.

(3) After turn on the PC and MONITOR, execute the 'Certificate Downloader v1.4' from the screen.

### 5-2. Adjustment Sequence

(1) After open the 'Certificate Downloader v1.4', enter Connection set and set the as same below.

The port settings are determined by each PC's setup.

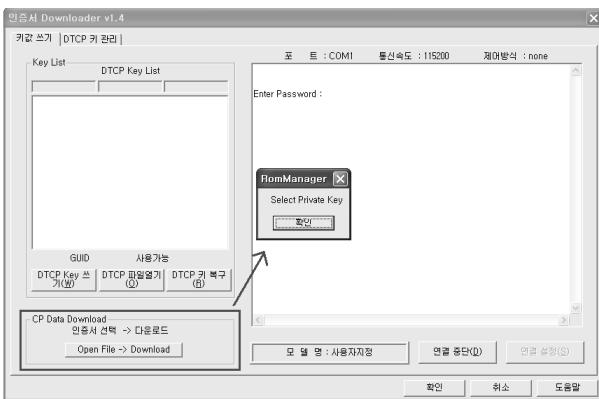


(2) Select 'Connection' and SET connected to RS-232C.

(3) After clicking "Enter", confirm that "Enter Password:" appears.



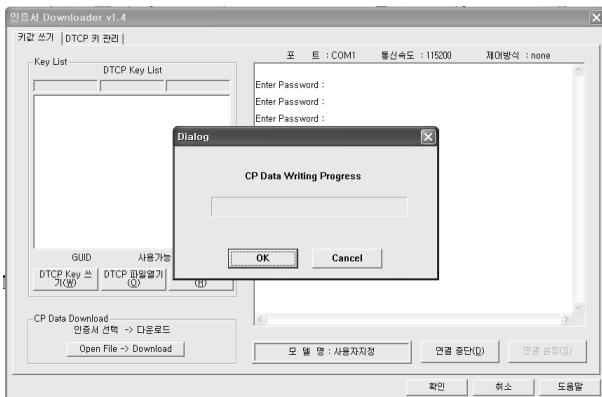
- (4) Click the "OpenFile - Download" button from CP Data Download, 'select the Private Key' appears and click ENTER.



- (5) After clicking ENTER, the 'opens Private key' window appears and select the Private key applied to the SET. The Private Key file name is on the Label of the Digital Board.



- (6) When the Dialog window appears, click OK and the write work will begin.



- (7) When completed, click 'CP Data Download: OK'

- [ When 'CP Data Download: OK' does not appear, certificate has not Download correctly.  
SET is rebooted and certificate Download work must be repeated.

## 6. Gemstar Operation Confirmation

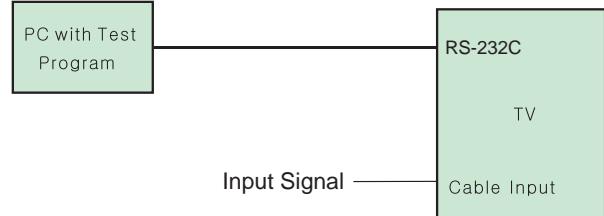
### 6-1. Required Test Equipment

- (1) PC with Factory Test Program
- (2) VBI Inserter (Norpak TES3) - Guide Data Discharge Equipment

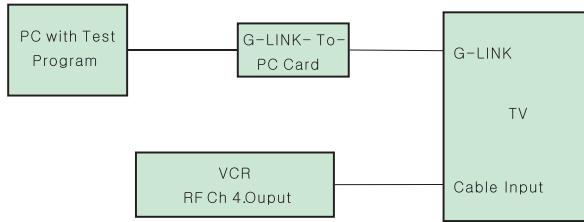
[ In case of without the VBI Inserter(TES3), a VCR may be used.

### 6-2. Preparation for Adjustments

- (1) In case of with VBI Inserter(TES3): Signal uses Cable input and set as below.



- (2) In case of without VBI Inserter(TES3): VCR uses Cable input and set as below.



[ Factory Test S/W must be set to "GlinkTo PC Card" ON.

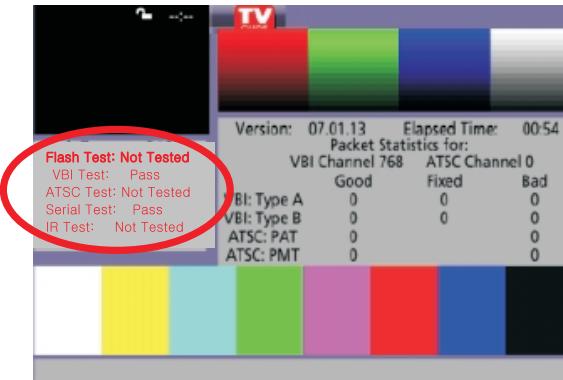
### 6-3. Adjustment Confirmation Work

- (1) Turn on the TV and run Factory Test Program of PC.

[ Program only needs to run once, regardless of set quantity.

- (2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S/R/C).
- (3) Go to number 1 Gemstar and press Enter.
- (4) TV set screen will appear as shown.

- (5) Confrim that VBI Test and Serial Test PASS from the screen.



## 7. Cable Operation Confirmation

- (1) Confirm that the Cable Card is inserted in the slot.
- (2) Enter the EZ adjust menu by pressing the Adjust key on the Service Remote Control (S R/C).
- (3) Go to number 2 Cable Check and press the Right key (G).
- (4) Confirm items below.

Name	Normal	Defective
Descrambler Check	OK	Not OK
CableCARD	CableCARD™ is inserted.	CableCARD™ is removed.
OOB Path	OK(Lock)	Not OK(Unlock)
FDC_SNR	OK(20dB above)	Not OK(20dB under)
Video Signal	Normal Screen	Black Screen (No Picture)

Cable Check		
1. Descrambler Check	OK	
2. CableCARD	CableCARD™ is inserted.	
3. OOB Path	OK { Lock }	
4. FDC_SNR	OK { 23 dB }	

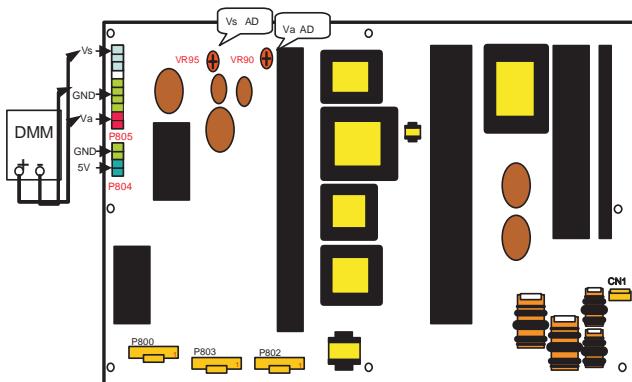
Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

## 8. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

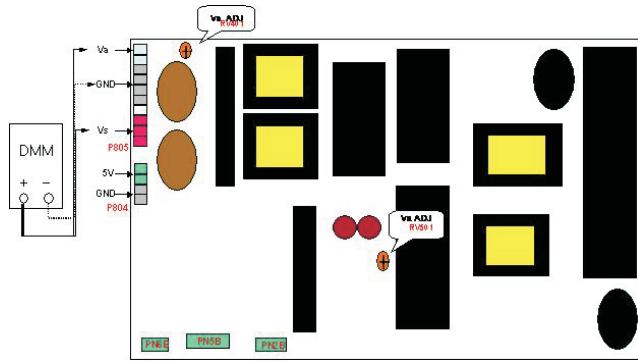
### 8-1. Test Equipment : D.M.M 1EA

### 8-2. Connection Diagram for Measuring

Refer to Fig 1.



<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 50"



<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 60"

## 9. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables "Plug and Play".

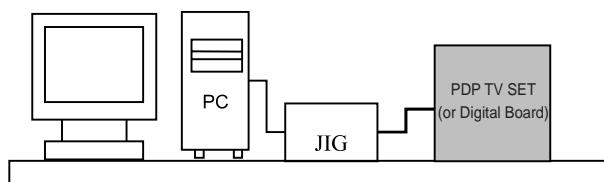
### 9-1. HDMI EDID Data Input

#### (1) Required Test Equipment

- 1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
- 2) S/W for writing DDC(EDID data write & read)
- 3) D-Sub cable
- 4) Jig for HDMI Cable connection

#### (2) Preparation for Adjustments & Setting of Device

- 1) Set devices as below and turn on the PC and JIG.
- 2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



<Fig. 2>

## 10. ADC-Set Adjustment

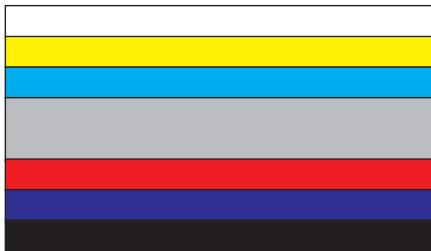
### 10-1. Synopsis

ADC-Set adjustment to set the black level and the Gain to optimum.

### 10-2. Test Equipment

Service R/C, 801GF(802B, 802F, 802R) or MSPG925FA Pattern Generator

(720P The Horizontal 100% Color Bar Pattern output will be possible and the output level will accurately have to be revised with  $0.7 \pm 0.1$ Vp-p)



<Fig. 3> Adjustment Pattern : 480i/1080i 60Hz HozTV31 Bar Pattern

### 10-3. Adjustment

#### (1) ADC 480i Component1 Adjustment

Check the connection Component1 to the Test Equipment

- (1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode and select 'Normal' in screen.
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '4. ADC 480i Comp1'. Pressing the Enter Key to adjust with automatic movement.
- (3) When the adjustment is over, 'ADC Component1 Success' is displayed.
- (4) If the adjustment has errors, 'ADC Configuration Error' is displayed. And error message('Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device') is displayed for 1 second.

#### (2) ADC 1080i Component2/RGB Adjustment

Check the connection Component2, RGB to the Test Equipment

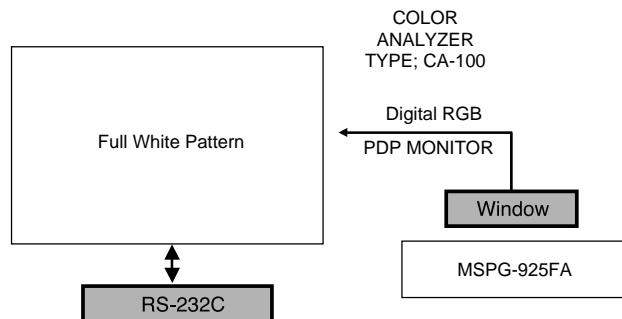
- (1) Select Component2 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode and select 'Normal' in screen.
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '5. ADC 480p Comp2/RGB'. Pressing the Enter Key to adjust with automatic movement.
- (3) When the adjustment is over, 'ADC Component2 Success' is displayed. If the adjustment has errors, 'ADC Configuration Error' is displayed.
- (4) After the Component2 adjustment is over, convert the RGB-DTV Mode and display Pattern.

When the adjustment is over, 'ADC RGB\_DTV Success' is displayed.

- (5) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors. Error message is 'Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device'.
- (6) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

## 11. Adjustment of White Balance

### 11-1. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 4> Connection Diagram of Automatic Adjustment

#### [ RS-232C Command (Automatic Adjustment)

	RS-232C COMMAND [CMD ID DATA]			Min	CENTER (DEFAULT)			Max
	Cool	Mid	Warm		Cool	Mid	Warm	
	R Gain	Jg	Ja	Jd	00	184	161	192
G Gain	Jh	Jb	Je	00	187	183	159	255
B Gain	Ji	Jc	Jf	00	192	192	95	255
R Cut					64	64	64	127
G Cut					64	64	64	127
B Cut					64	64	64	127

## 11-2. Adjustment of White Balance

- Operate the Zero-calibration of the CA-210, then attach sensor to PDP module surface when you adjust.
- Manual adjustment is also possible by the following sequence.

- (1) HEAT RUN at least 30 minutes by pressing the Power only Key on the Service Remote Control and adjust.
- (2) After attaching sensor to center of screen, select 'White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (G). This time white pattern is displayed.
- (3) Adjust the Hight Light using R Gain/G Gain(Cool).  
Adjust the Hight Light using G Gain/R Gain(Medium).  
Adjust the Hight Light using G Gain/B Gain(Warm).  
(R Gain: 192, B Gain 192, R-Cut/G-Cut/B-Cut: 64 Fix.)
- (4) Adjust using Volume +/- KEY.
- (5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

High Level: 216gray

### [Cool]

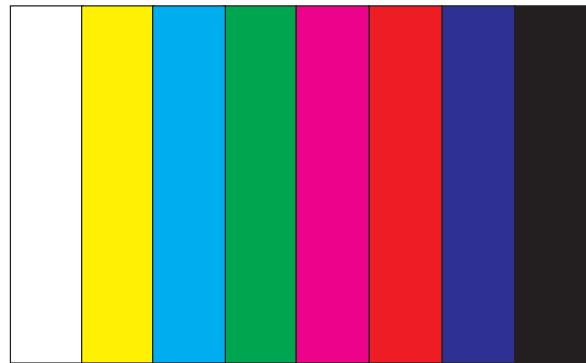
X; 0.278±0.015 Y; 0.279±0.015  
Color temperature: 11000°K±1000°K  
dUV: -3dUV

### [Medium]

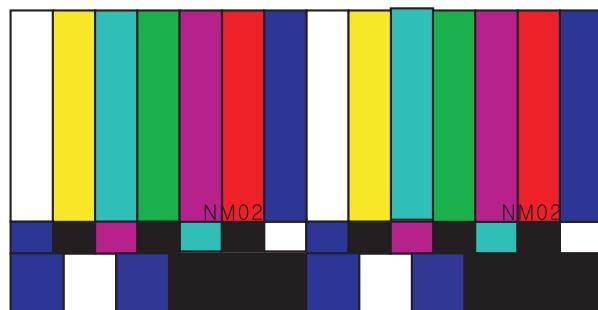
X; 0.287±0.015 Y; 0.289±0.015  
Color temperature: 9300°K±1000°K  
dUV: -3dUV

### [Warm]

X; 0.314±0.015 Y; 0.318±0.015  
Color temperature: 6500°K±1000°K  
dUV: -3dUV



- (2) After receive signal, confirm the signal receiving.  
And Enter the 'EZ-ADJUST' by pressing the ADJ Key on the Service R/C.  
Select '5. Video(UPD)-Set' and enter the adjustment mode by pressing the right key (G).
- (3) When enter the adjustment mode, displayed the TV 2CH SPLIT Screen automatic at picture and appear as below figure.



## 12. Video(uPD)-Set

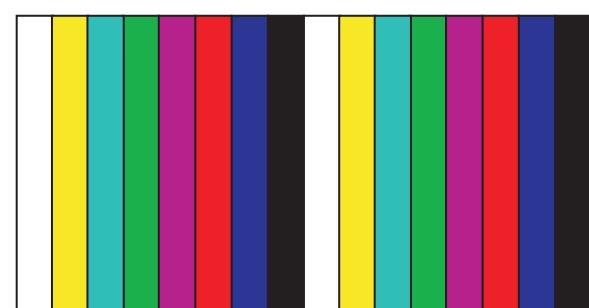
Adjustment for reduce color difference Main/Sub screen of RF or Video signal.

### 12-1. Adjustment

- (1) Connection the Video Signal Generator(Master) to the TV AV Input terminal.  
After input pattern(Model: 201(NTSC-M), Pattern: 32(100% color Bar), pressing the 'Rev' button and appear as below figure



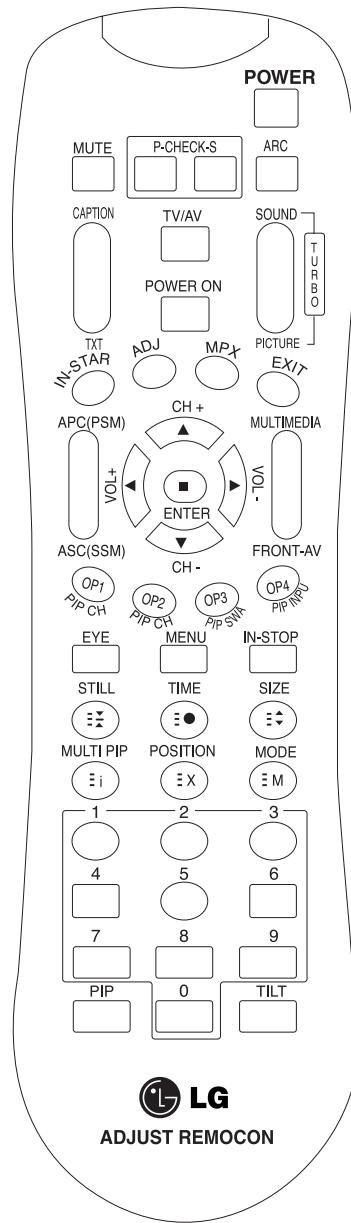
- (4) When the automatic adjustment is over, 'RF Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.



- (5) After the RF signal automatic adjustment is over, convert the Video Mode as below figure and adjust with automatic movement the Video Mode.  
When the automatic adjustment is over, 'Video Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.

# SVC REMOCON

NO	KEY	FUNTION	REMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH±	To move channel up/down or to select a function displayed on the screen.	
21	VOL±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

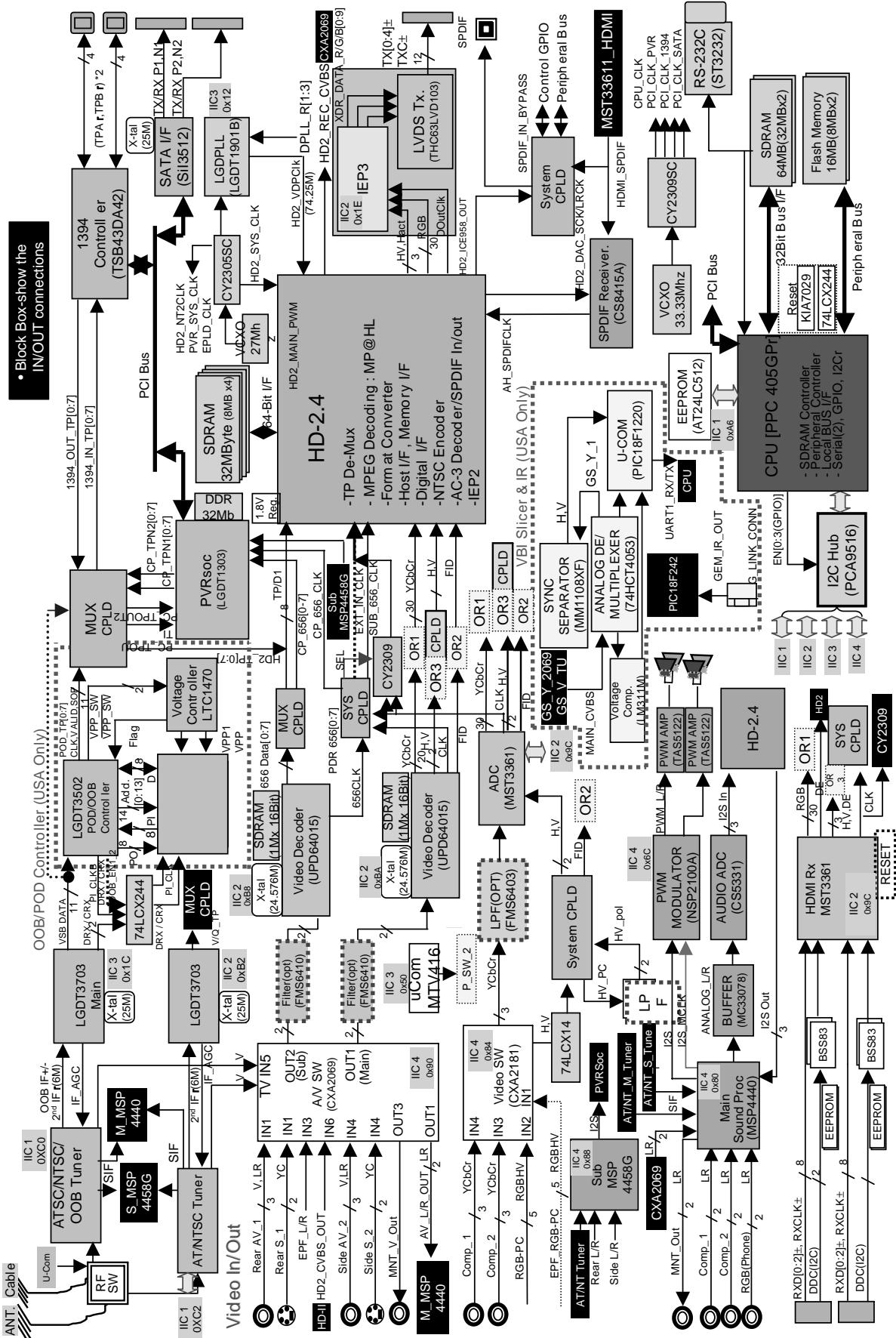


ADJUST REMOCON

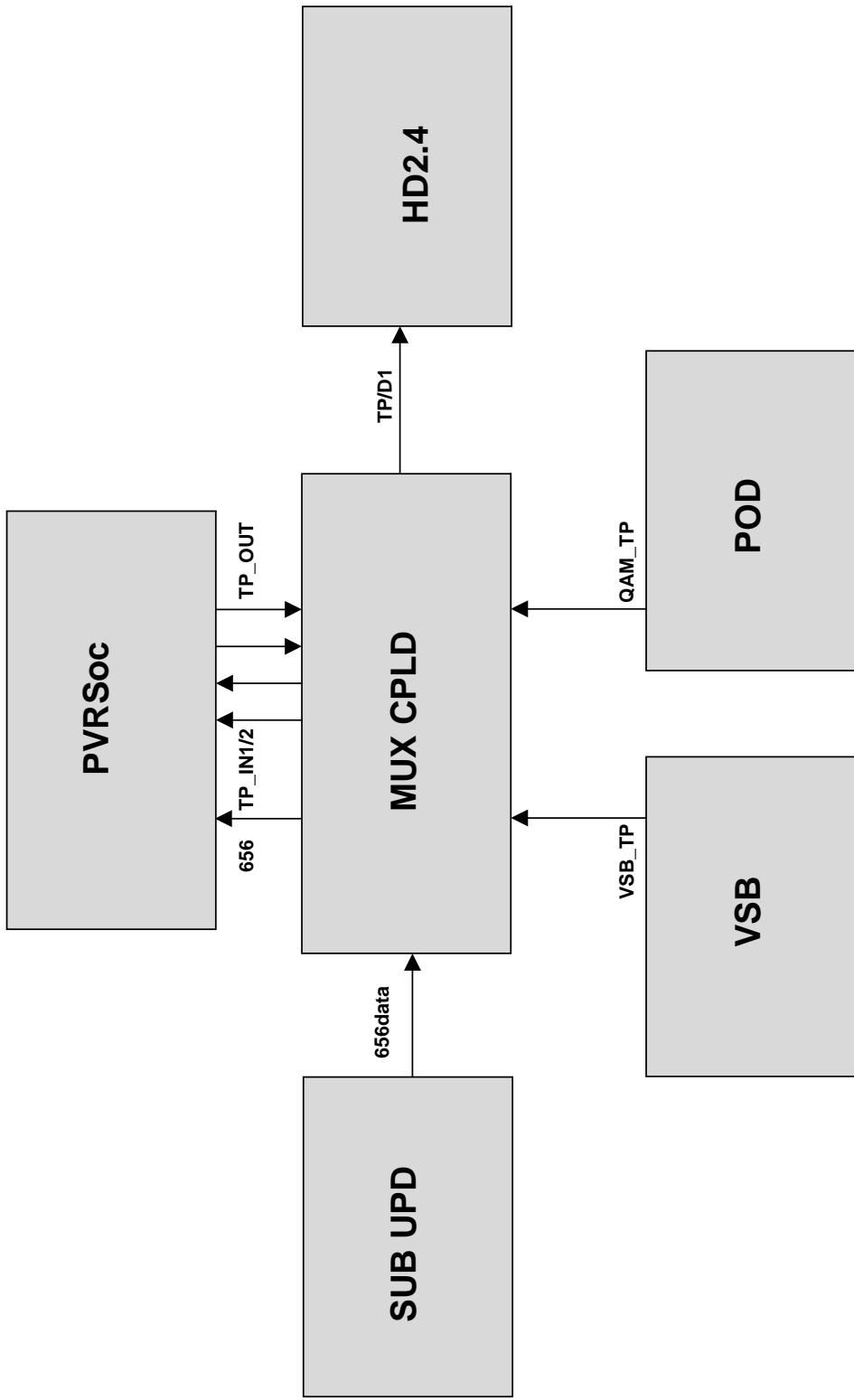
## VIDEO TROUBLESHOOTING & BLOCK DIAGRAM

• DCR DVR

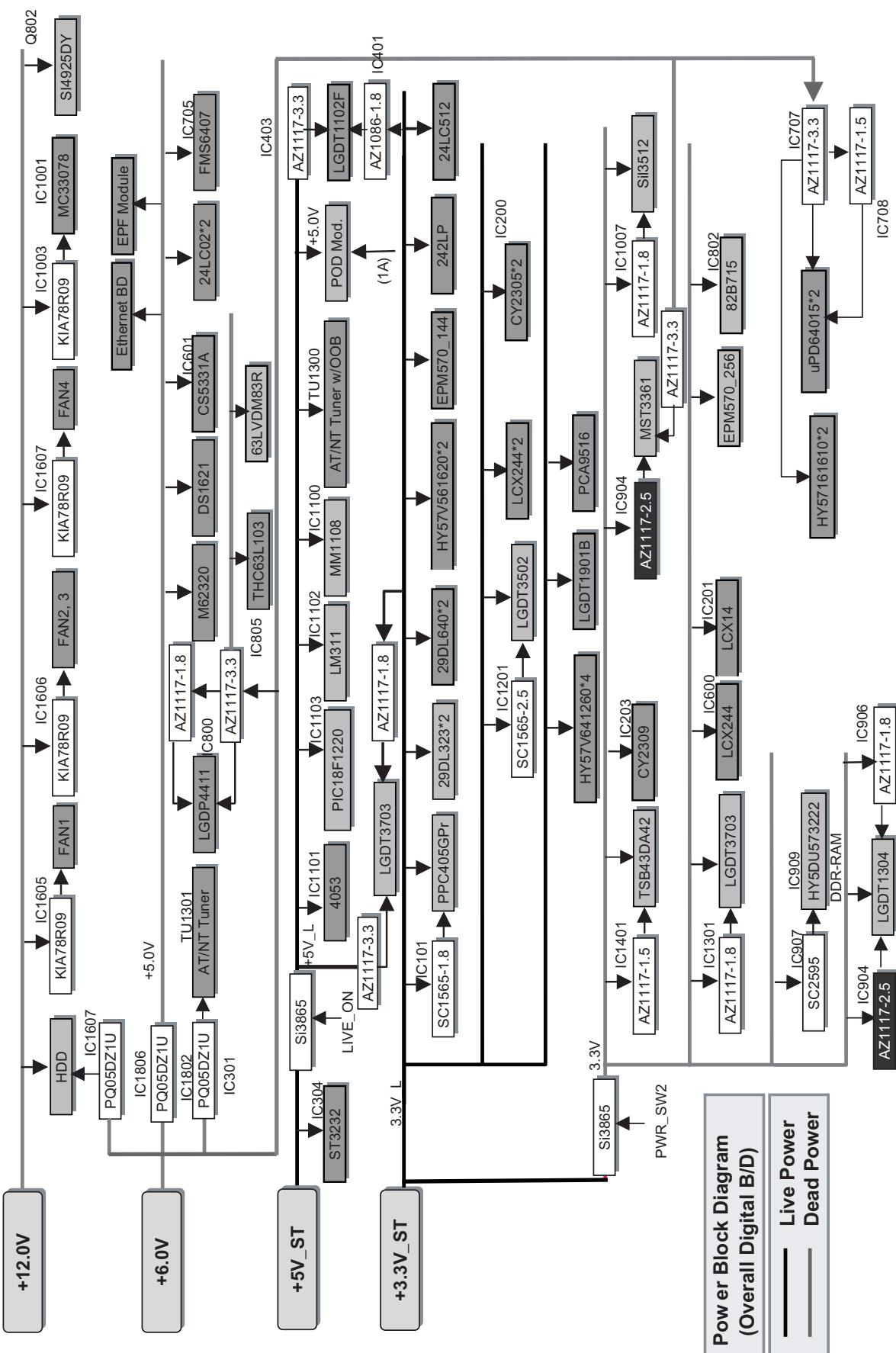
- Block Box-show the IN/OUT connections



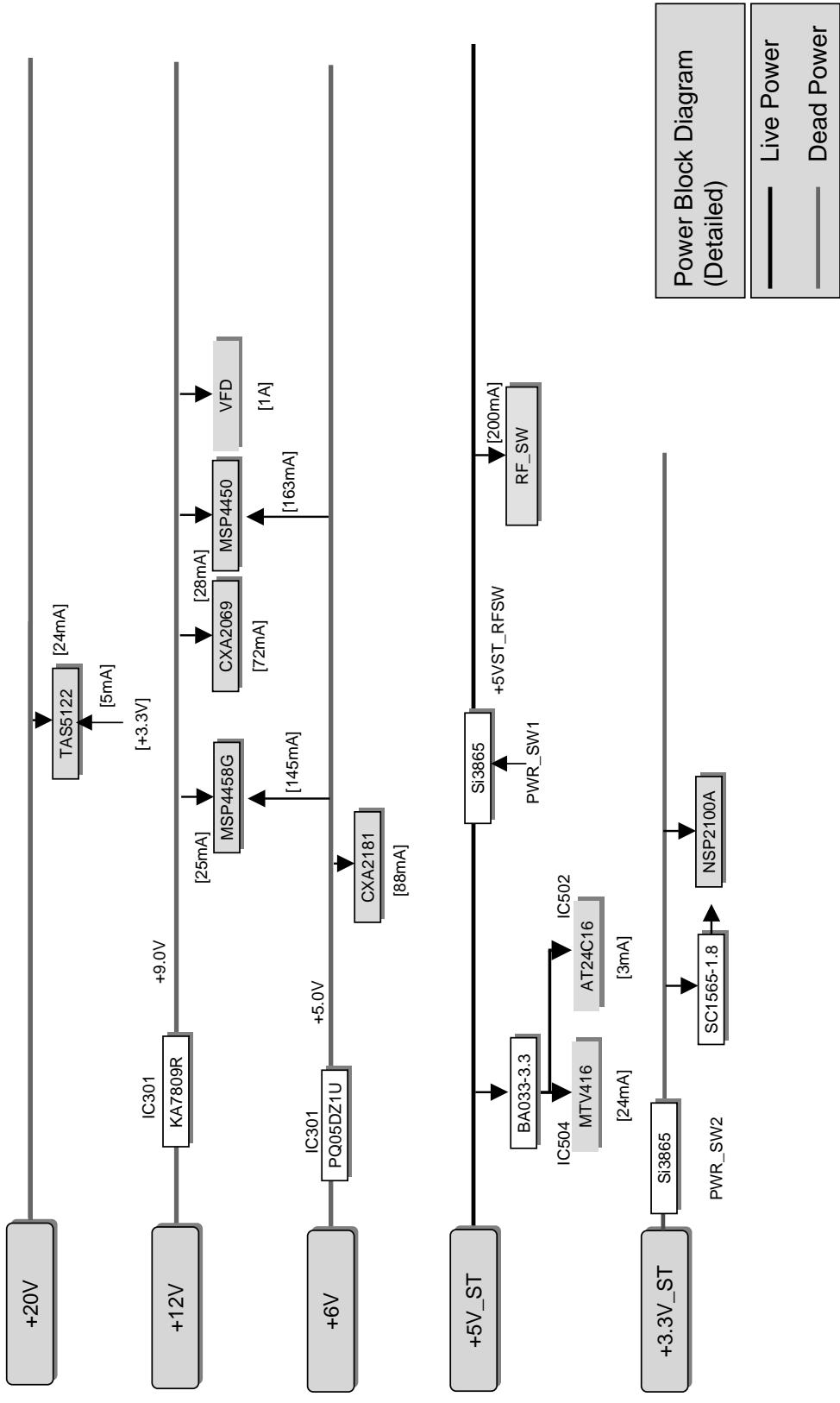
• Digital B/D MUX Interface



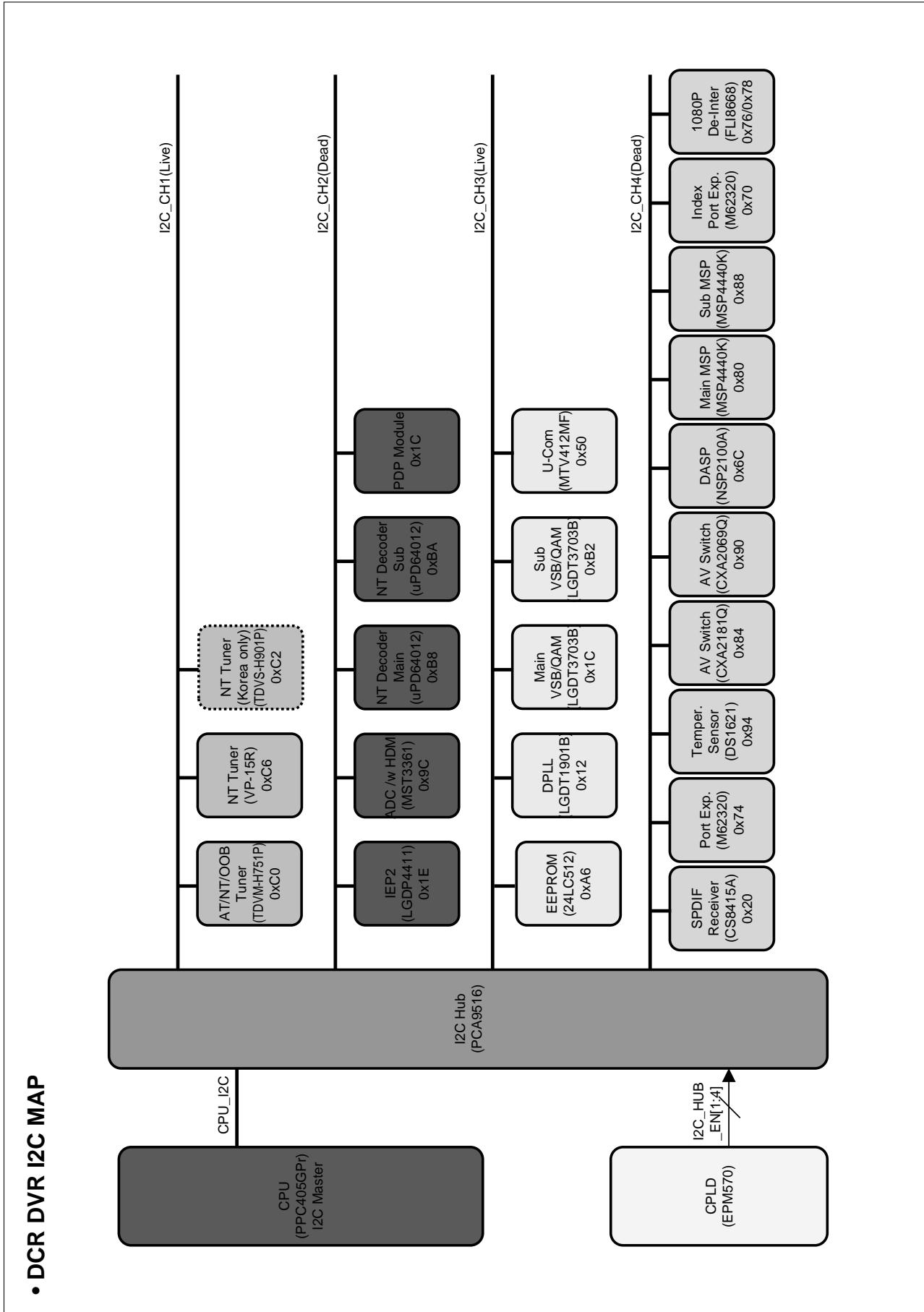
- Digital B/D Power Block



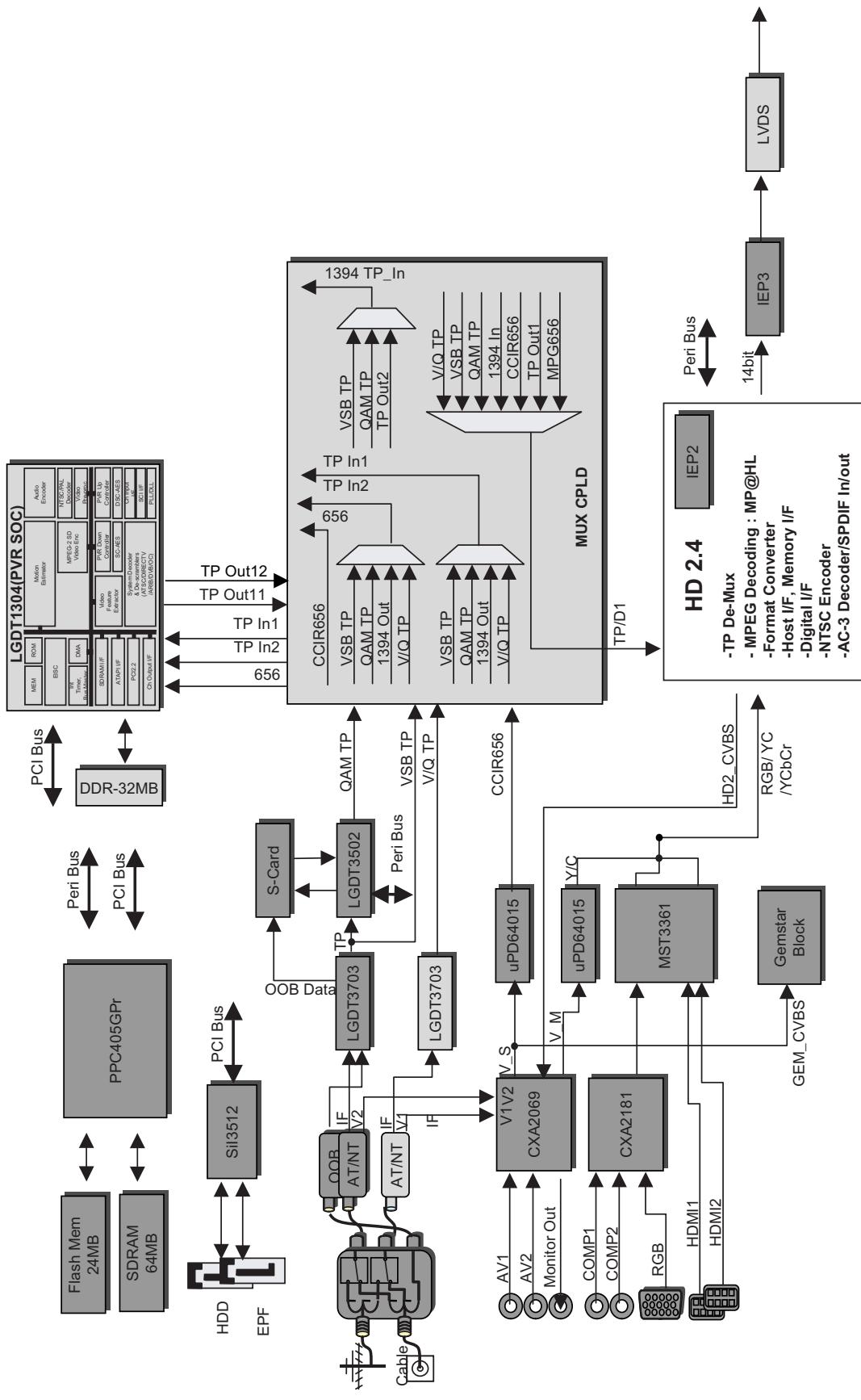
## • Digital B/D Power Block



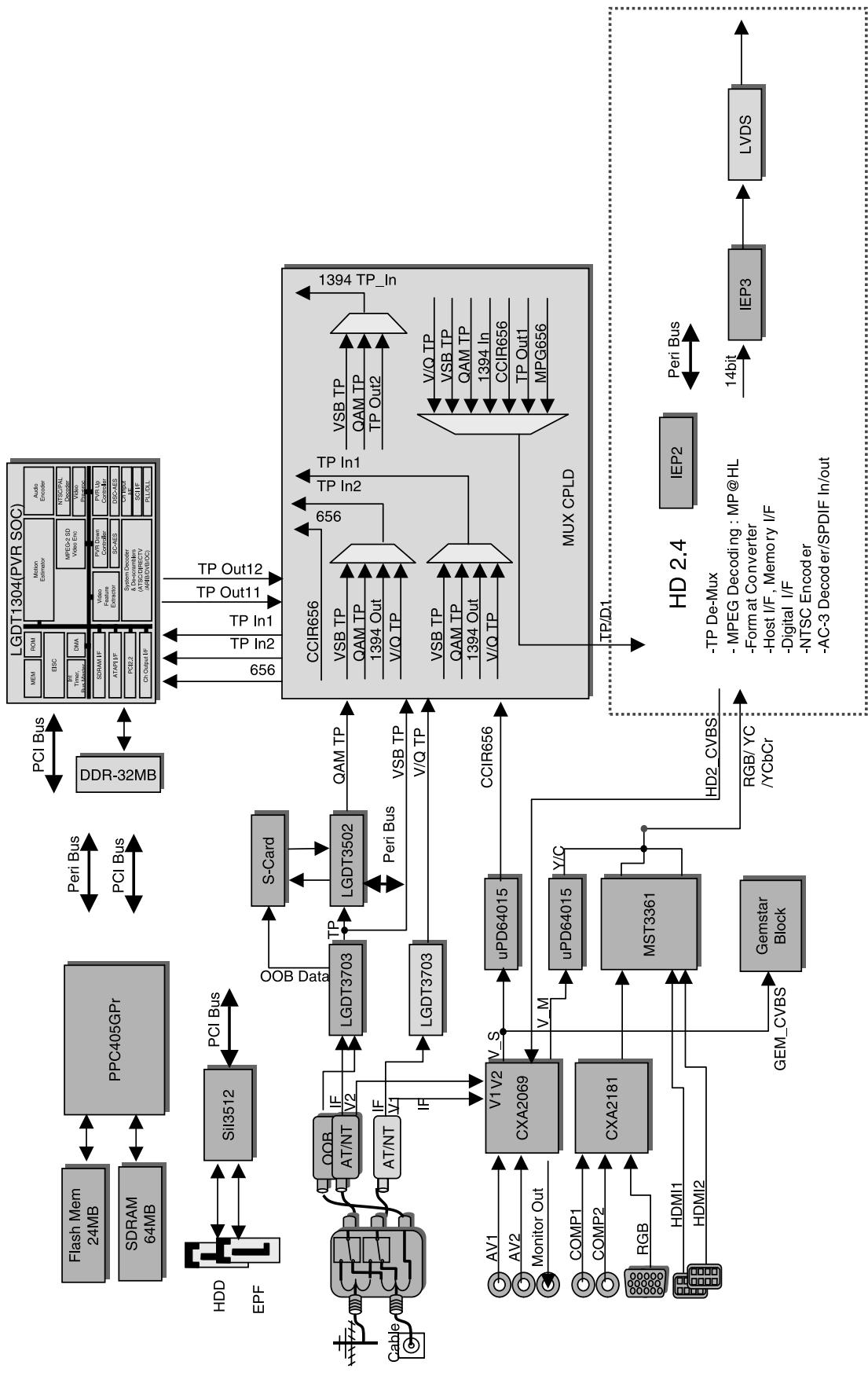
• DCR DVR I2C MAP



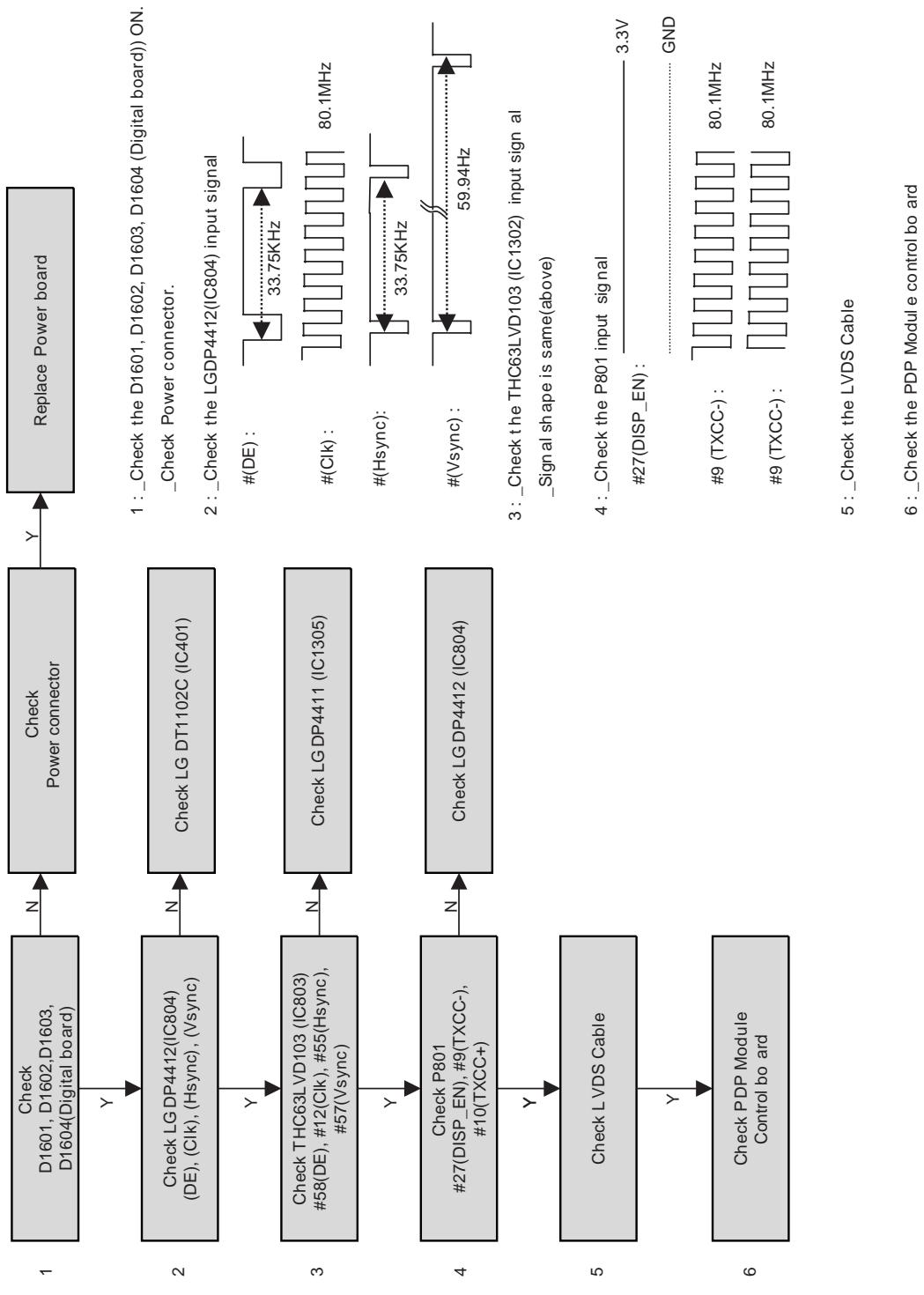
## • DCR DVR VIDEO PATH



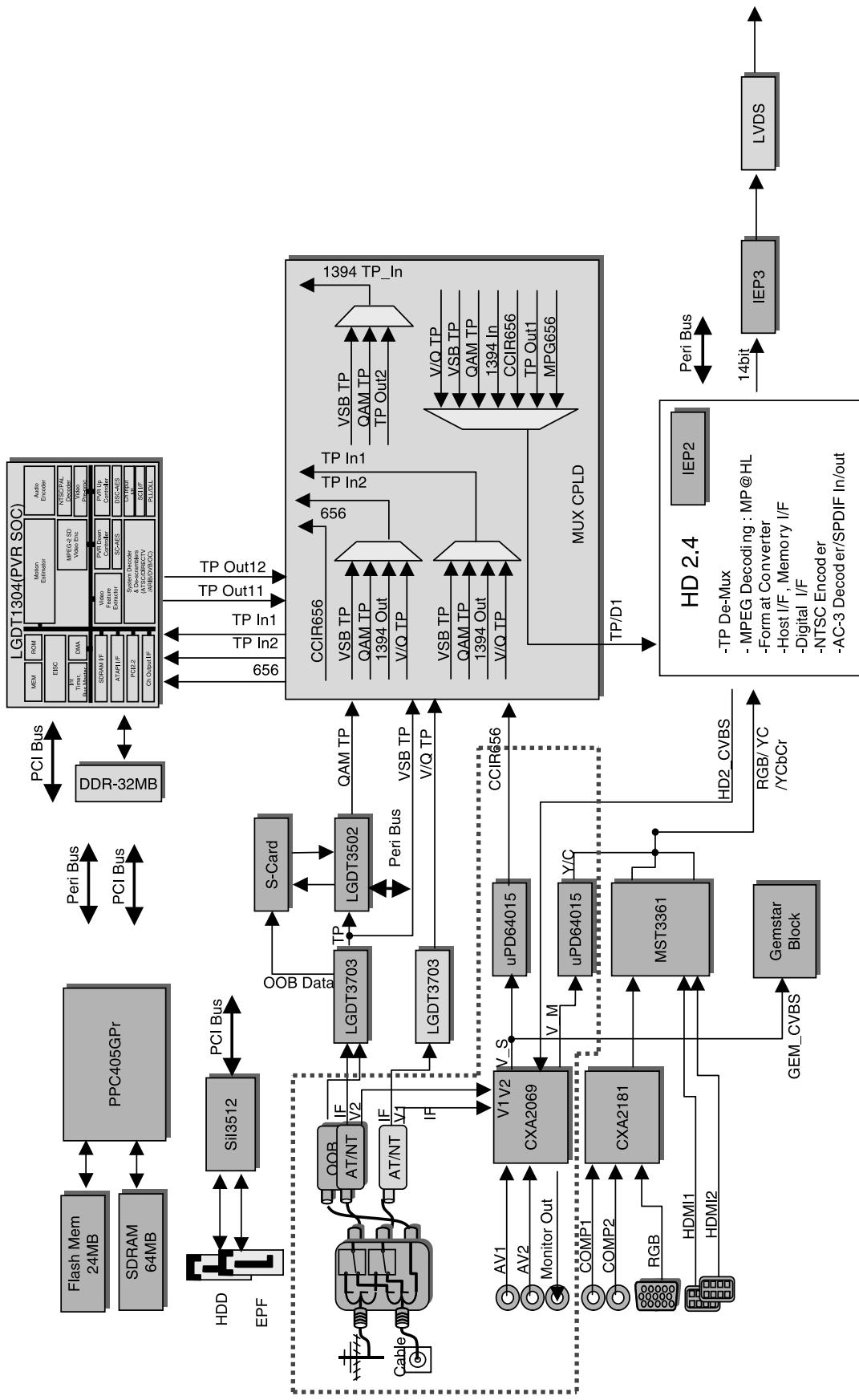
## • DCR DVR NO OSD



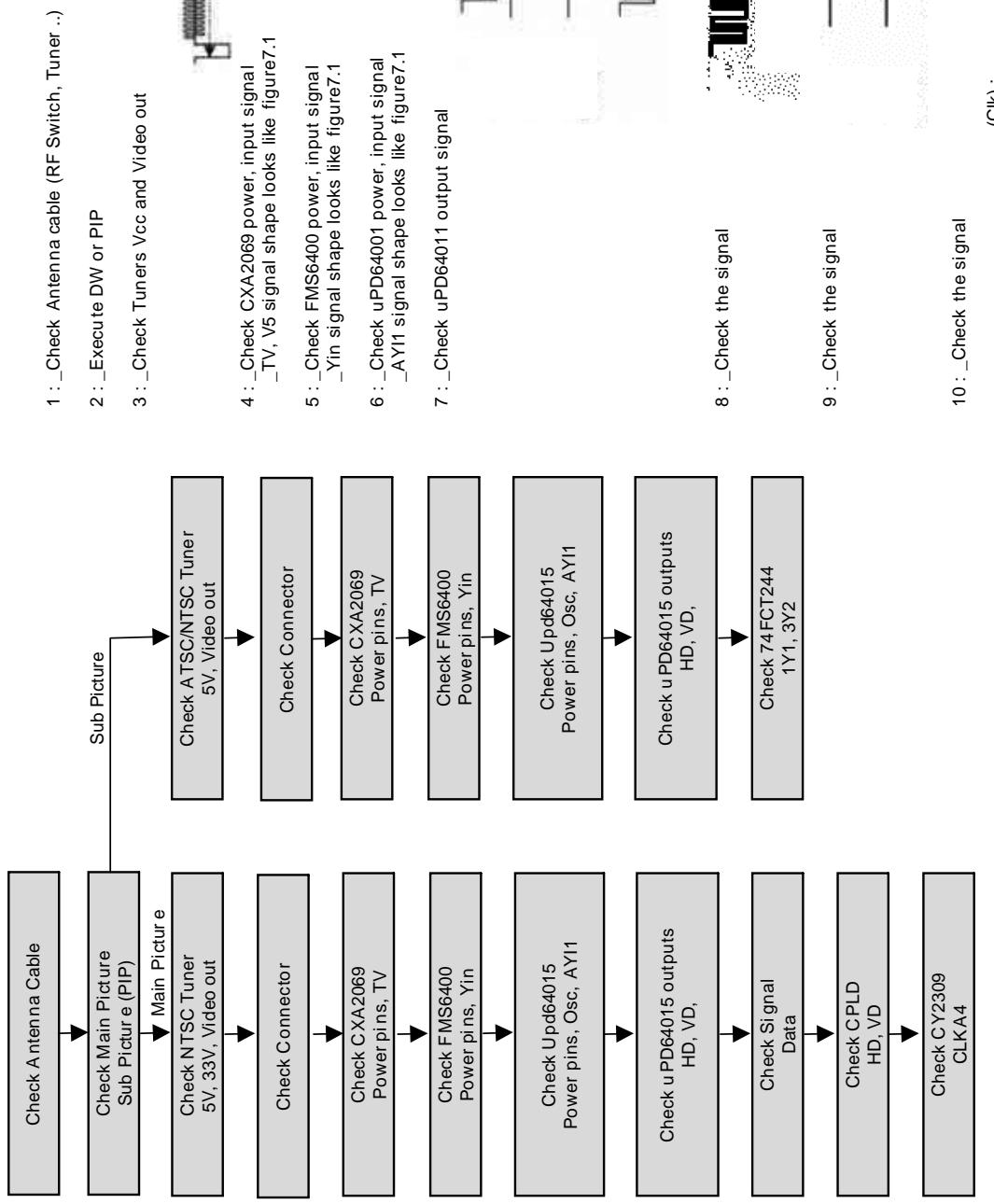
## • DCR NO OSD



## • DCR DVR RF/AV MODE

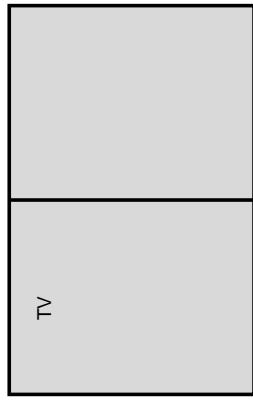


## • DCR DVR RF/AV MODE

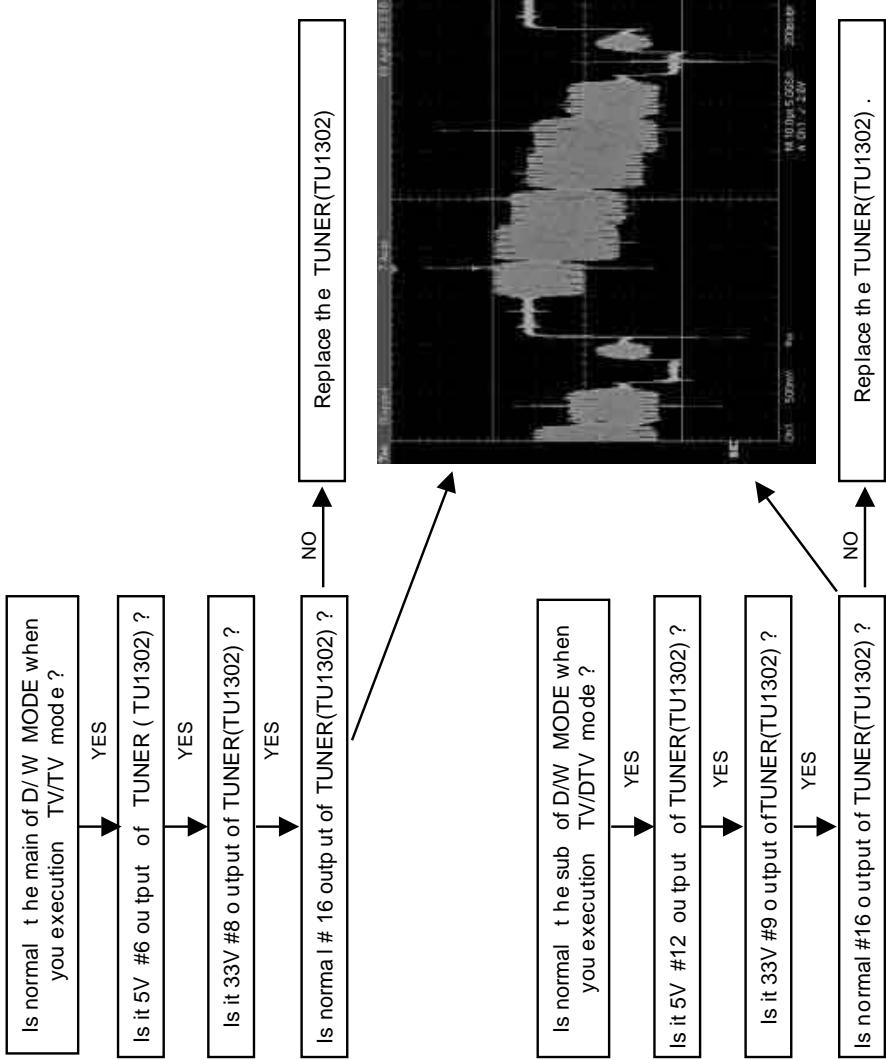


## • DCR RF MODE(Detailed)

1. Check follow  
1-1. Execution PIP or D/W mode



## (TV/CATV mode does not display)

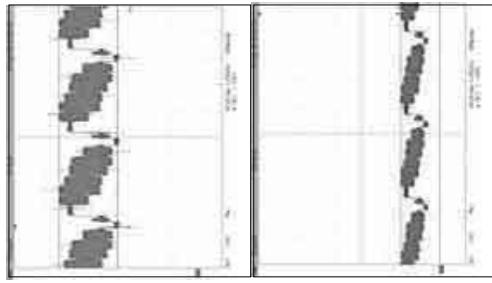


- DCR DVR RF MODE

1. Check follow 1-2. When it is normal output of the TUNER

FIG1

(TV/CATV mode does not display)



EIG1

Is normal the main of D/ W MODE?

Is it 9V #42 of CXA2069(IC101) ?

Is normal #56 output of CXA2069(IC101)?  
E/C1

—

Is normally connected P101 to P1612 ?  
Flat cable

Is normal output of FMS6400(IGT04)?

Is normal UPD640 15 Power(1.5V,3.3V)

Is norml output of UPD64015(IC701)?  
Digital I Output Y(10bit),C(10bit),H/V,FID

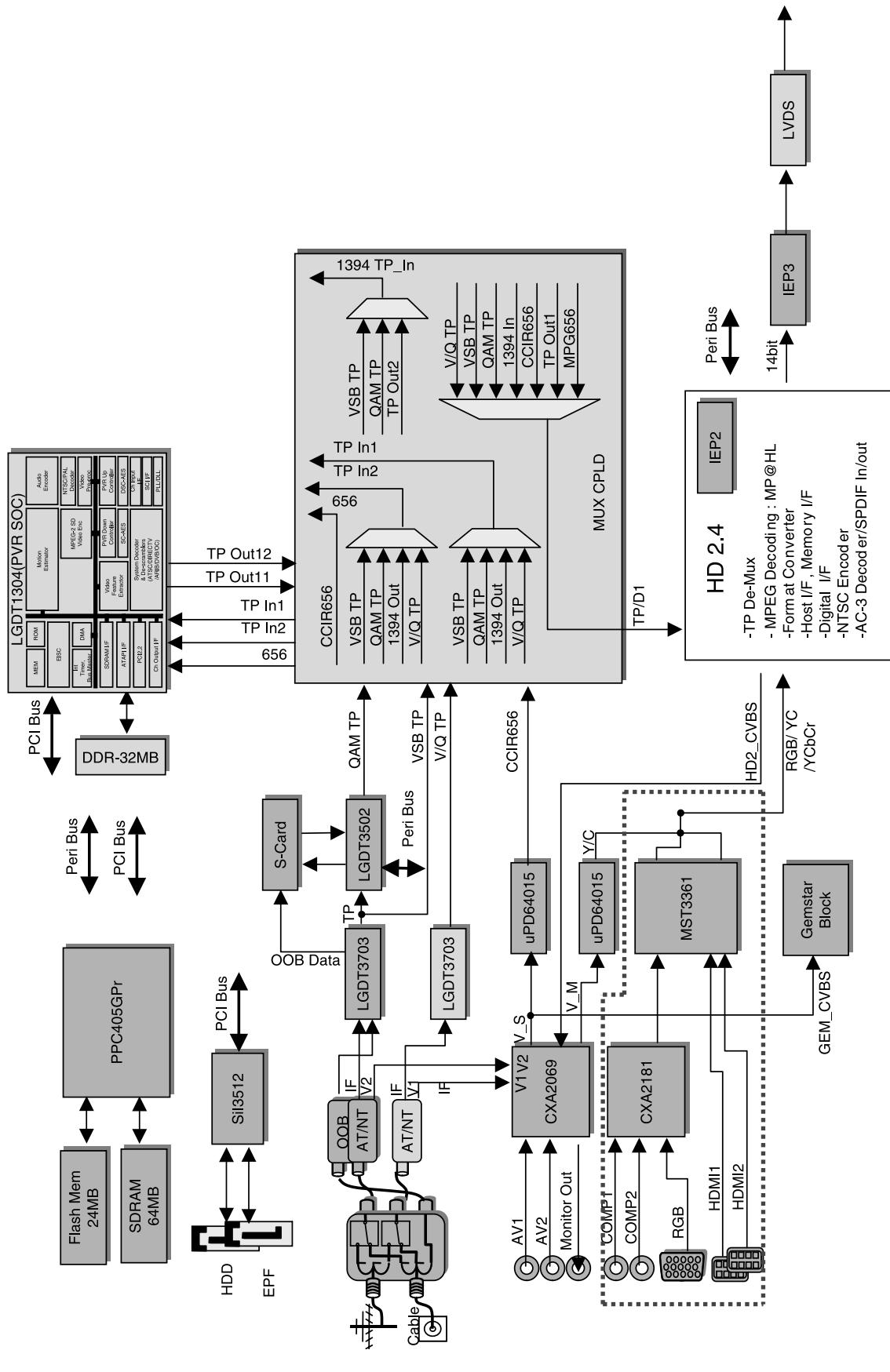
17

Is normal output of E

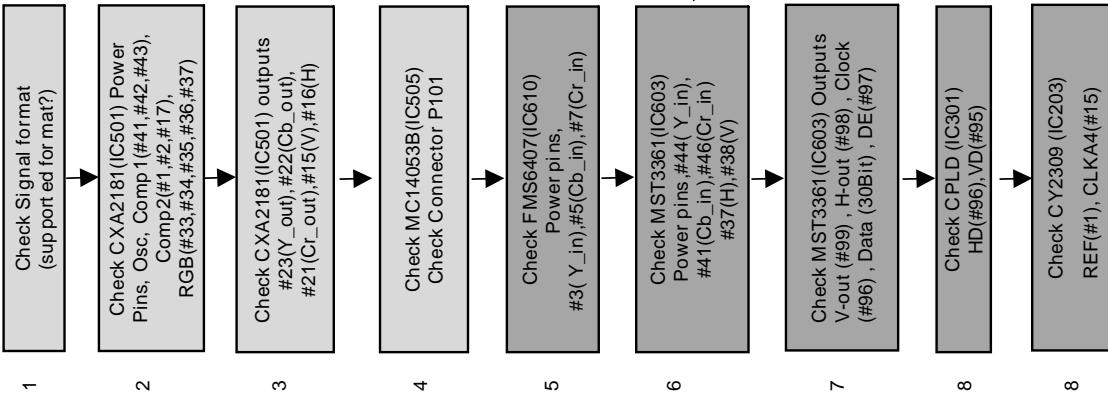
|s normal |IPD640 15

Is nora ml out put of

## • Component/RGB/HDMI/DVI

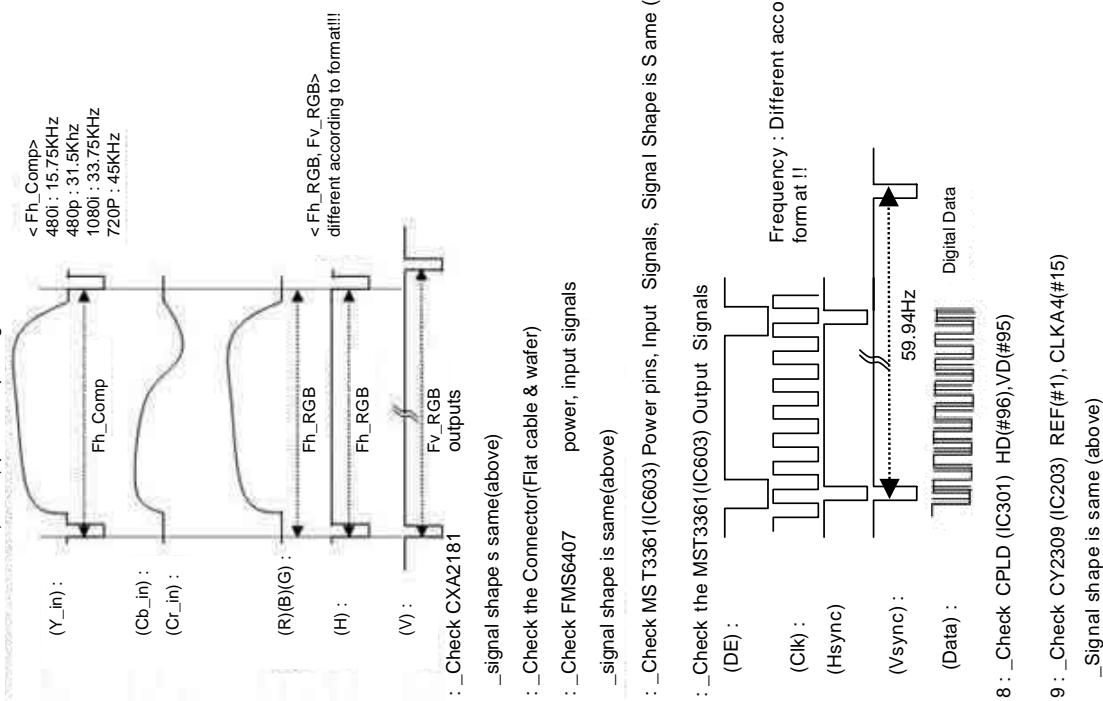


## • DCR COMP Component/RGB

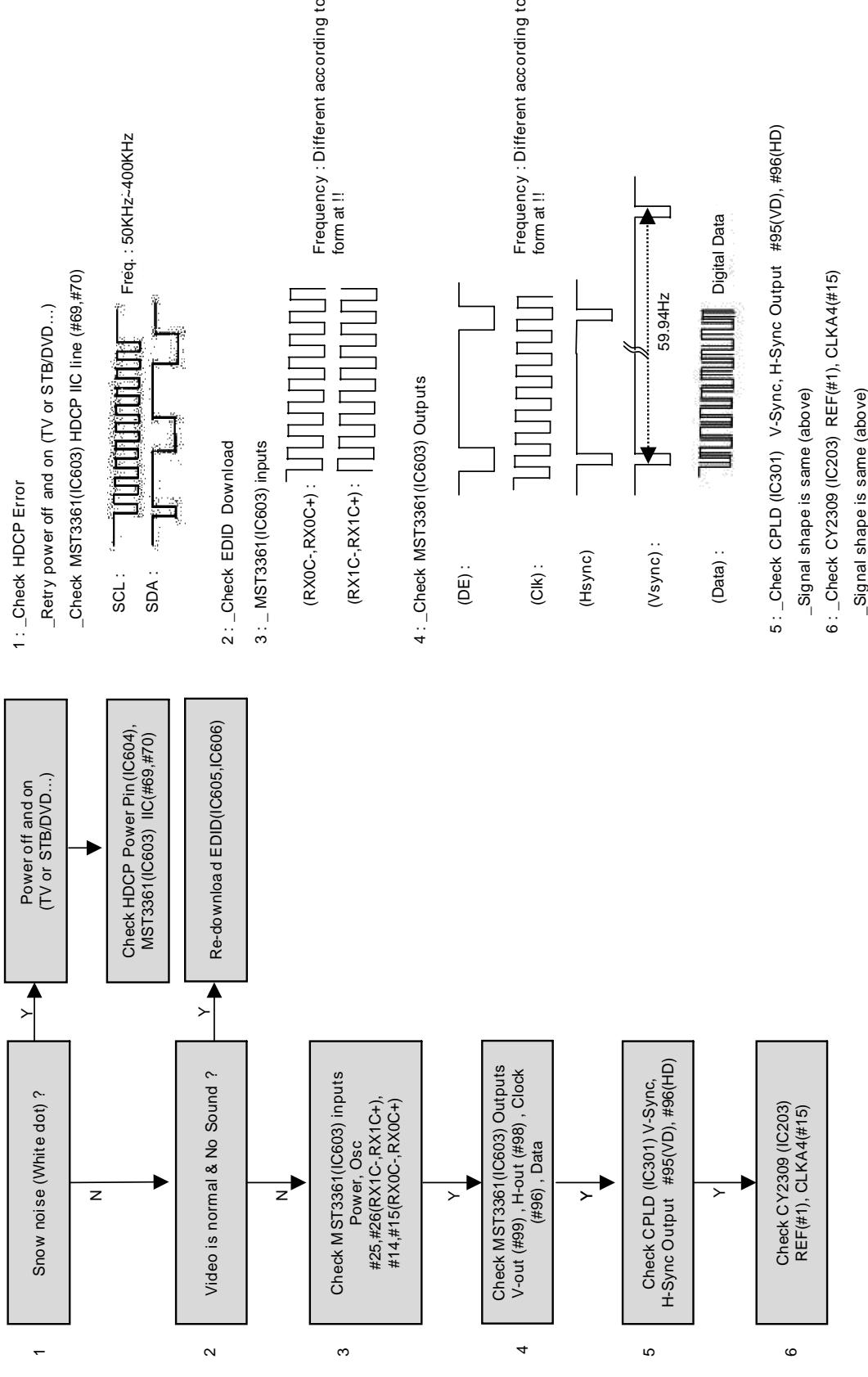


1 : \_Check supported format(ref. owner's manual)

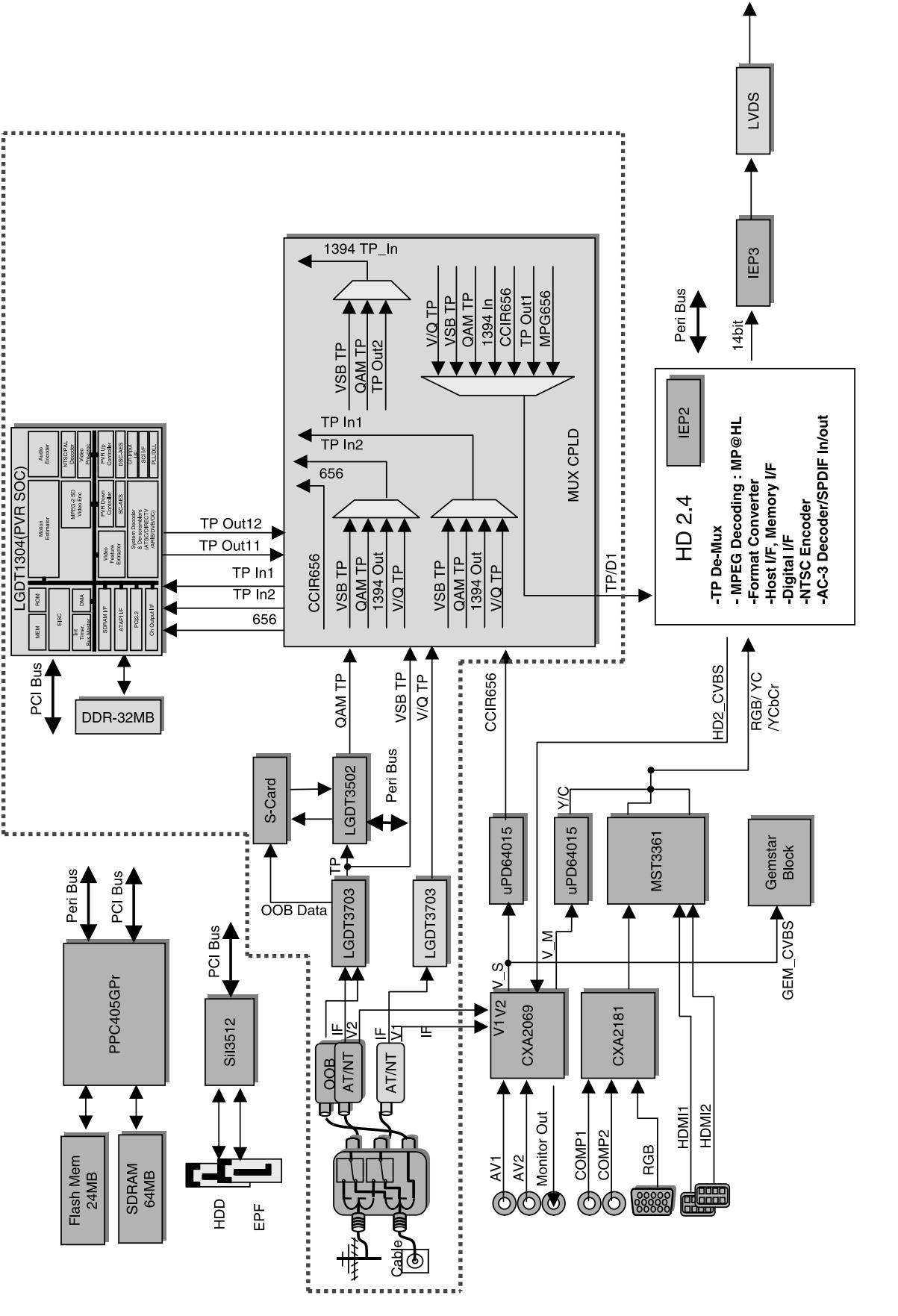
2 : \_Check CXA2181(IC300) power, input signal



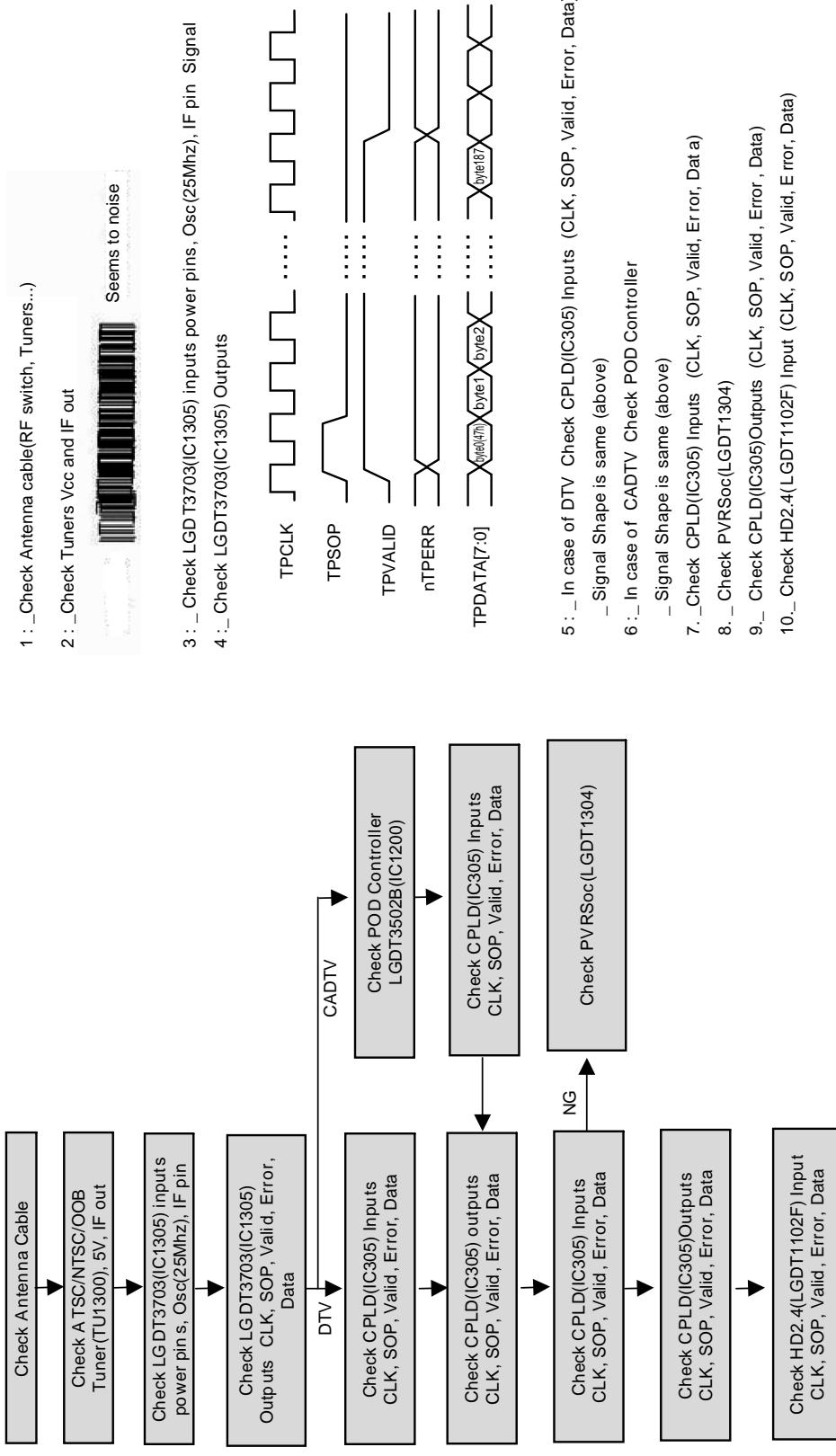
## • DCR DVR HDMI/DVI



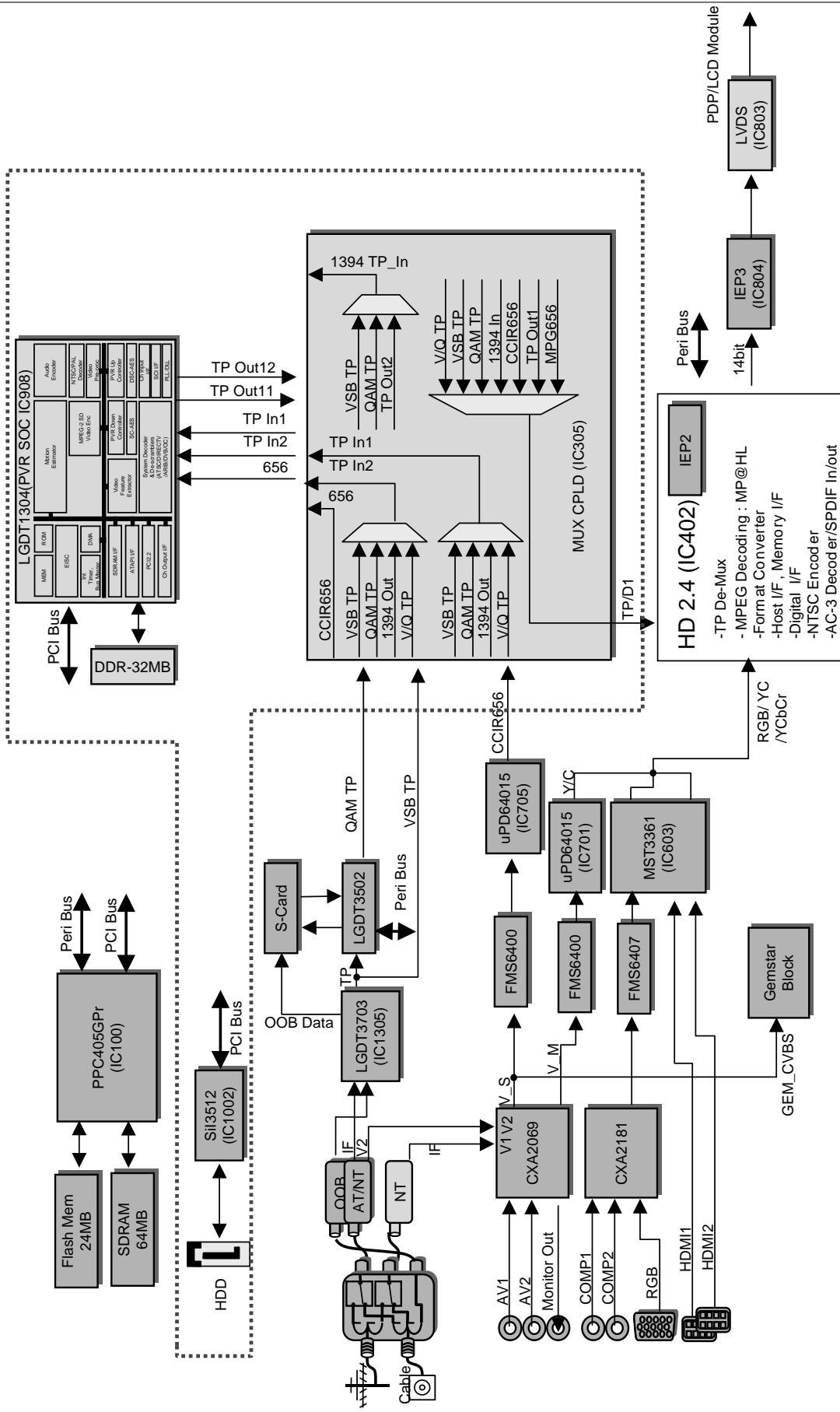
## • DCR DVR DTV/CADTV



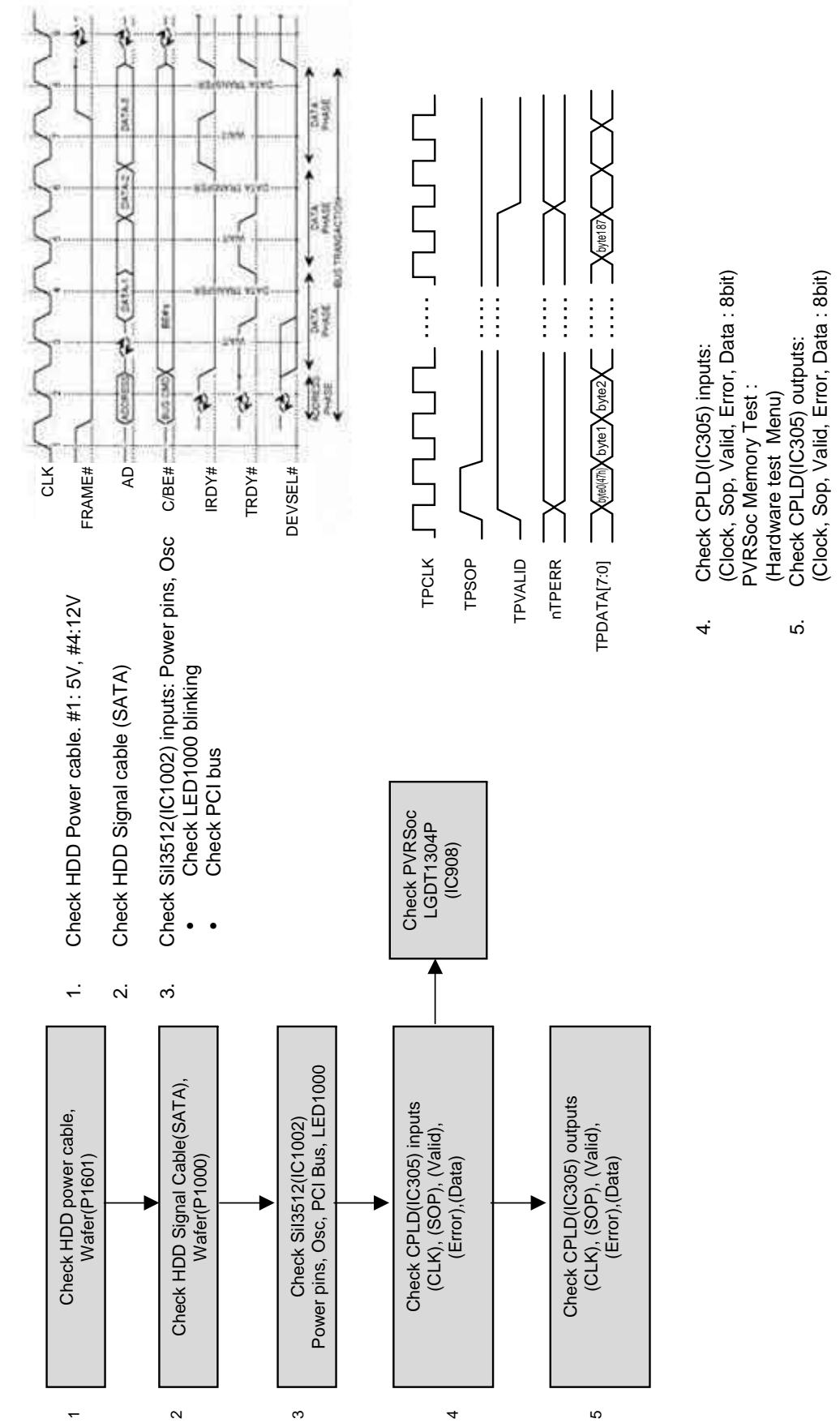
## • DCR DVR DTV/CADTV



## • HDD PLAY BACK

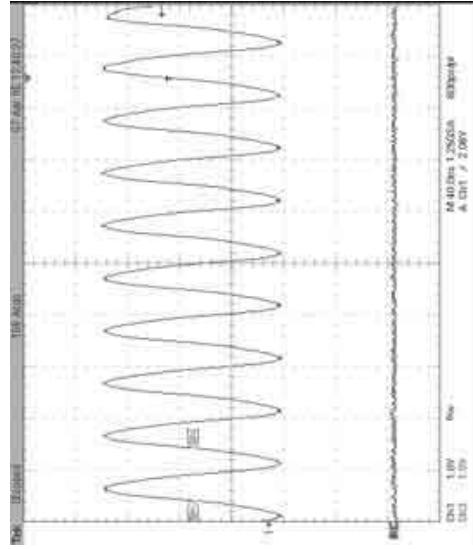
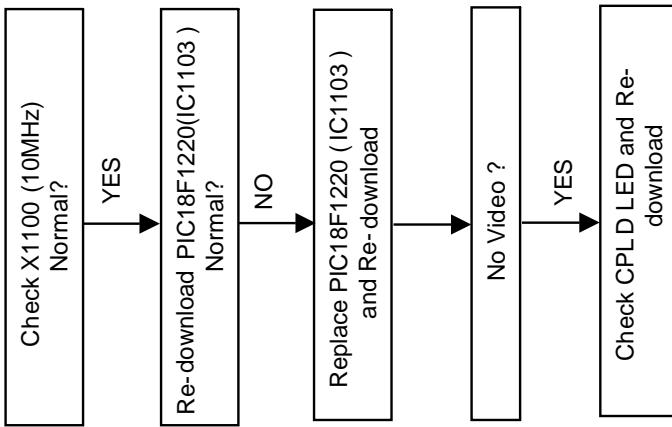


## • HDD PLAY BACK



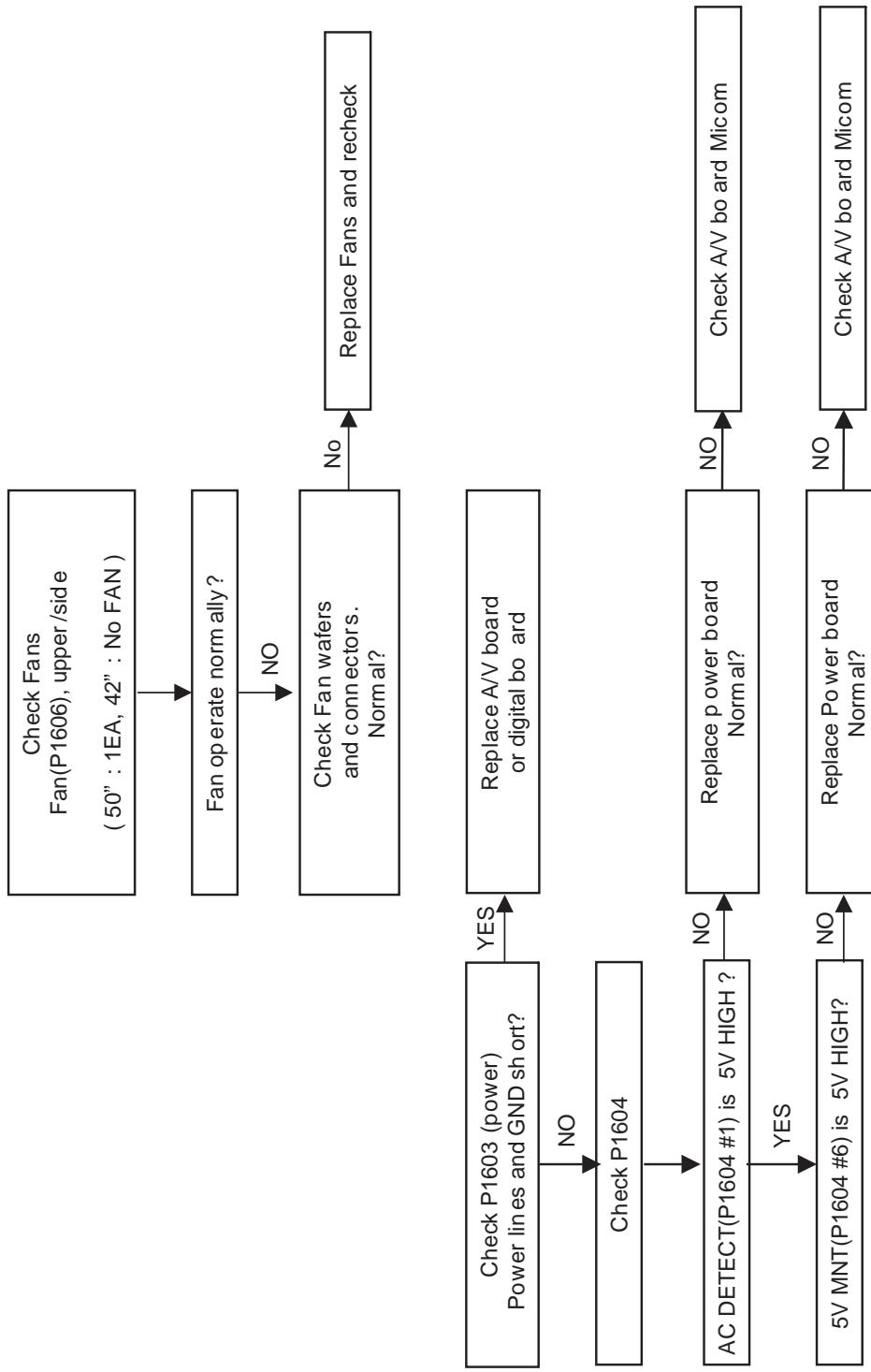
## • Power On-Off repetition(Automaticaly)

Symptom : TV set powers on ( LED :White ) and off ( LED :Red ) repeatedly of its self. ( No video )



- Protect Mode

**Symptom :** When TV set powers on, LED is blinking in seconds. And power off(LED is red)



# CableCARD TROUBLESHOOTING GUIDE

## CableCARD Definition

1. CableCARD device is a PCMCIA card distributed by cable operators and inserted into a DCR TV( Host) to enable premium services, also called "Card" and "Point of Deployment( POD) module". It provides authorization, CA( Conditional Access) decryption and CP(Copy Protection) encryption functions for the consumer's DCR TV.

## Troubleshooting in the Home for CableCARD Installers

2. It is recommended that installers bring along a couple of CableCARDS for troubleshooting. This will help eliminate the CableCARD as a possible problem during the installation.
3. Before installing the CableCARD, installers should check that the Digital Cable Ready (DCR), also referred to as a HOST, is functional without a CableCARD.
  - a. Verify Host (TV) Operation: The installer can perform this by connecting the RF cable to the correct cable input of the DCR (there may be connections for a terrestrial antenna and verifying good picture quality. The DCR will display all non-encrypted analog and digital content. (The DCR must not receive RF signal via a STB or accessory RF modulator.) This will eliminate basic TV circuitry as a possible problem.
  - b. Check that the CableCARD is inserted properly. When inserting cable card push carefully but firmly until you feel the card click into place.
  - c. Verify RF from Cable System Tap: The installer can also connect a cable set top box to confirm reception of encrypted digital services. This will help eliminate the RF signal as a possible problem.
4. If the first CableCARD installed does not result in a User Interface screen (also referred to as MMI screen) within 5 - 7 minutes, try unplugging the AC Power cord of the DCR and reconnecting it (to reset the DCR) then try to await coming out of the user interface screen again. If this is still unsuccessful, try another CableCARD.
  - a. To eliminate the possibility of a damaged CableCARD or DCR device, the technician should look closely at the CableCARD device to ensure that none of the pinholes are blocked or clogged.
  - b. Check Host Interface. Using a flashlight, the technician should check the CableCARD slot on the DCR TV to ensure that there are no bent pins.
5. If the second CableCARD is successful, make sure the CSR or Dispatcher knows the new MAC ID and CableCARD ID to complete the installation. The original card should be marked accordingly and returned for repair.
6. Check the CableCARD menu options.  
If the second CableCARD fails to bring up the User Interface screen, the technician should refer to the diagnostic menus on the DCR for further troubleshooting. The technician can pull up the User Interface screen manually through the menu choices. the customer should provide the User Manual, so the technician can easily navigate through the DCR TV menu screens. Below table describes how to navigate the CableCARD menu. This list of selectable CableCARD options will vary, depending on your cable service provider or CableCARD manufacturer. Also, below table shows how to access diagnostic screens for the DCR TV. Many of these screens are not described in the User Manual.

CableCARD Mfg	Diagnostic Type	1st key	2nd key	3rd key
ALL	CableCARD main menu	MENU	Use cursor to select t CABLE icon then press ENTER	N/A
Motorola	CableCARD pairing status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select CableCARD. Pairing option, press ENTER
Motorola	Network status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select Network. Setup option, press ENTER
Motorola	CableCARD status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select CableCard. Status option, press ENTER
Motorola	CA status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select Conditional Access option, press ENTER
NDS	CableCARD pairing status	MENU	Use cursor to select t CABLE icon then press ENTER	Use Cursor to select CableCARD. Pairing option, press ENTER
NDS	Network status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select Network Setup option, press ENTER
NDS	CA status	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select Conditional Access option, press ENTER
SA	CableCard Diagnostics	MENU	Use cursor to select t CABLE icon then press ENTER	Use cursor to select SA125
SA	CableCard pairing status	MENU	Use cursor to select t CABLE icon then press ENTER	125CableCARD Diag option, press ENTER
SA	CableCARD Copy protection information	MENU	Use cursor to select t CABLE icon then press ENTER	USE CURSOR TO SELECT SA
SA	CableCARD CP Screen option	MENU	Use cursor to select t CABLE icon then press ENTER	CableCARD HOST ID optio, press ENTER
SA	CableCARD CP Screen option			Use cursor to select SA
				CableCARD CP Screen option, press ENTER

7. If installer is still having a problem, the installer should report the problem to the MSO headend dispatcher for troubleshooting. If the cable company dispatcher (head end personnel) has completely checked their channel set-up, confirmed the accounting/billing system to setup is correct, and has confirmed normal channel map with a or more other DCR TVs at the MSO headend, then go on to the next step.

8. If the installer determines that the DCR device is the problem (unit failed either item 2a or 3b above) and can go no further in correcting the problem, and if the installer determines that the host- pod pairing screen cannot be displayed with multiple CableCARDs, he or she should follow the directions given by the CE manufacturer in informing the customer of their options. usually involving either a return of the DCR device to the retail outlet from which it was purchased or The customer should start by contacting the CE manufacturer directly for assistance and/or repair information.

In many cases, if the HOST is under warranty, the repair will be done at the customer's home. Contact Point : Jong Gyu Kim (jongkim@lge.com, 1-847- 941- 8828) Vice-President, Zenith R&D center. Jong Hoon Lee (jonghoon.lee@zenith.com, 1- 847- 941- 8774) Engineer, Zenith R& D center.

9. If using a STB will allow the customer to receive services on the damaged DCR device, the installer can leave a box in the customer's home until the customer resolves the issue with the CE manufacturer.

10. If the technician is able to install the CableCARD device and access the User Interface screen (also referred to as MMI screen), and has relayed the information to the dispatcher, but is still not receiving encrypted programming, this programming may be protected through the use of copy protection directive. Ensure that the information passed to dispatch is correct. Relay again the Host ID, CableCARD ID and Data ID (Motorola only). Dispatch will send a hit to the CableCARD once the information is checked and verified. The CableCARD must be paired to the Host before copy protected programming can be displayed. Note that it may take several minutes from the time dispatch sends the authorization before it reaches the DCR device. The MMI screens should be checked to verify if the authorization has been received. For SA systems the host- pod pairing screen should say "Authorization Received." For Motorola the Conditional Access MMI State parameter should say "Subscribed".

(These should be verified by POD Manufacturers or cable companies.)

11. To confirm the Headend Validation for displaying the encrypted channel, the technician should check the CableCARD menu. For SA systems, the CableCARD Copy Protection Information menu should say "Authorization Received". For Motorola systems, the Conditional Access menu should say "Valid xx (2 digit)".

12. If encrypted programming is still not displayed, installer should check the status of followings.

a. Cable Channel List : Ready  
b. CableCard : Inserted

c. FDC status (OOB Status) : Lock

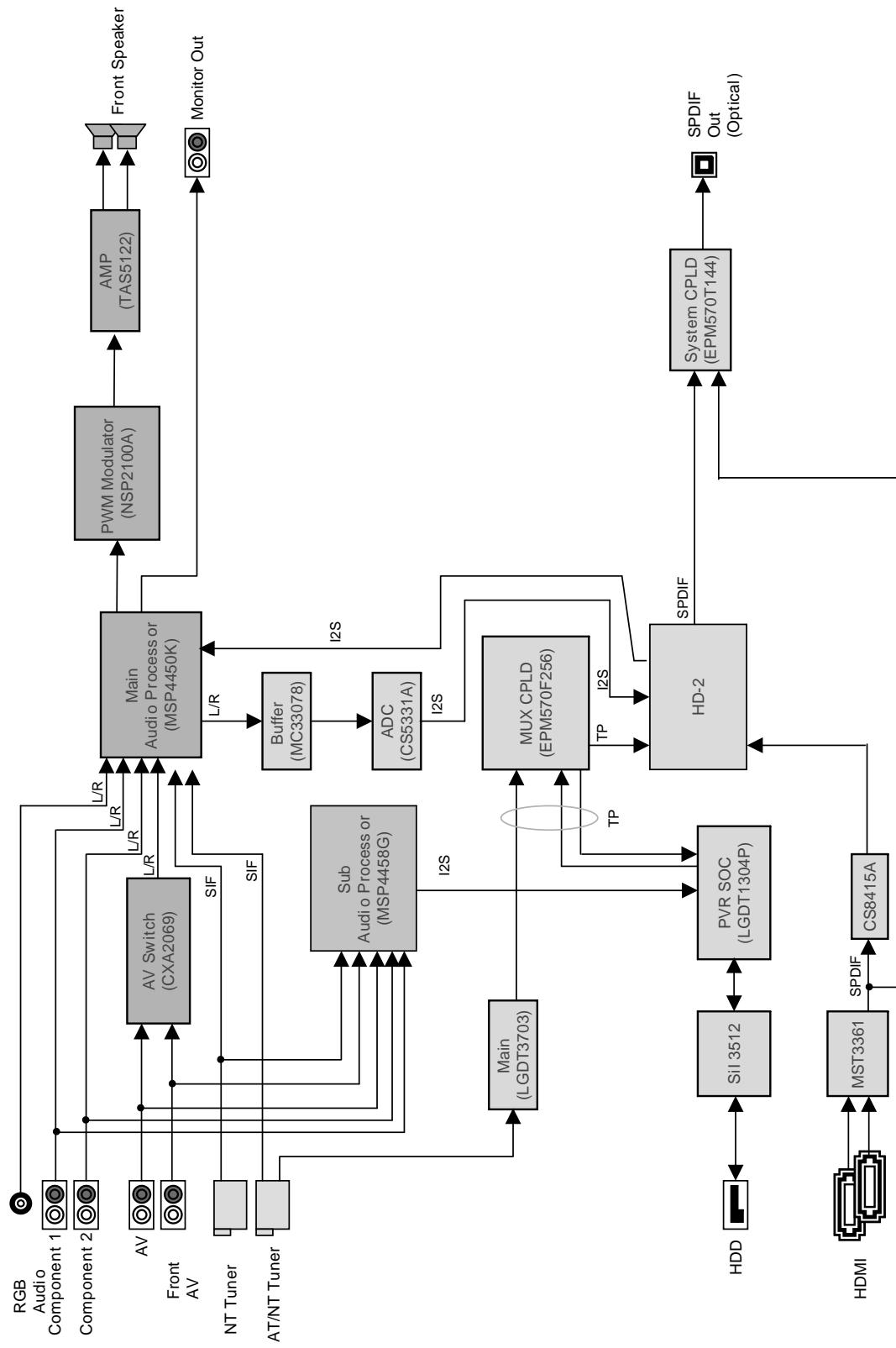
d. SNR( Signal to Noise Ratio) : higher than 12 dB is normal range.

Below table describes how to check above status in LG DCR TV.

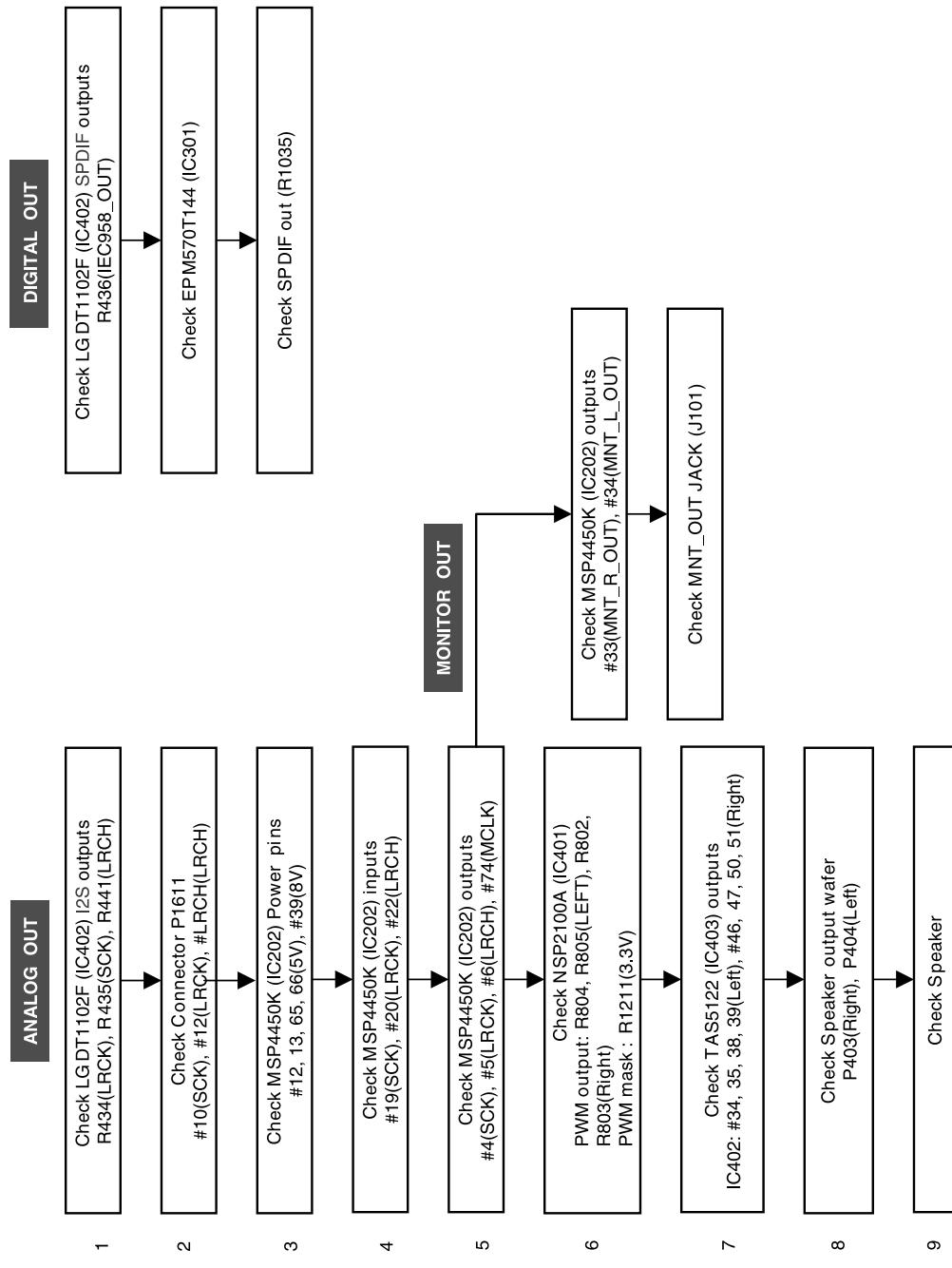
CableCARD Mfg	Diagnostic Type	1st key	2nd key	3rd key	4th key	5th Key
ALL - works with any	Host Diagnostic (In Band Signal Status, OOB Signal Status, etc)	MENU	Use cursor to select CABLE icon	Press button 0 (zero)	Press button 0 (zero)	Press button 0 (zero)
CableCARD						

# AUDIO TROUBLESHOOTING & BLOCK DIAGRAM

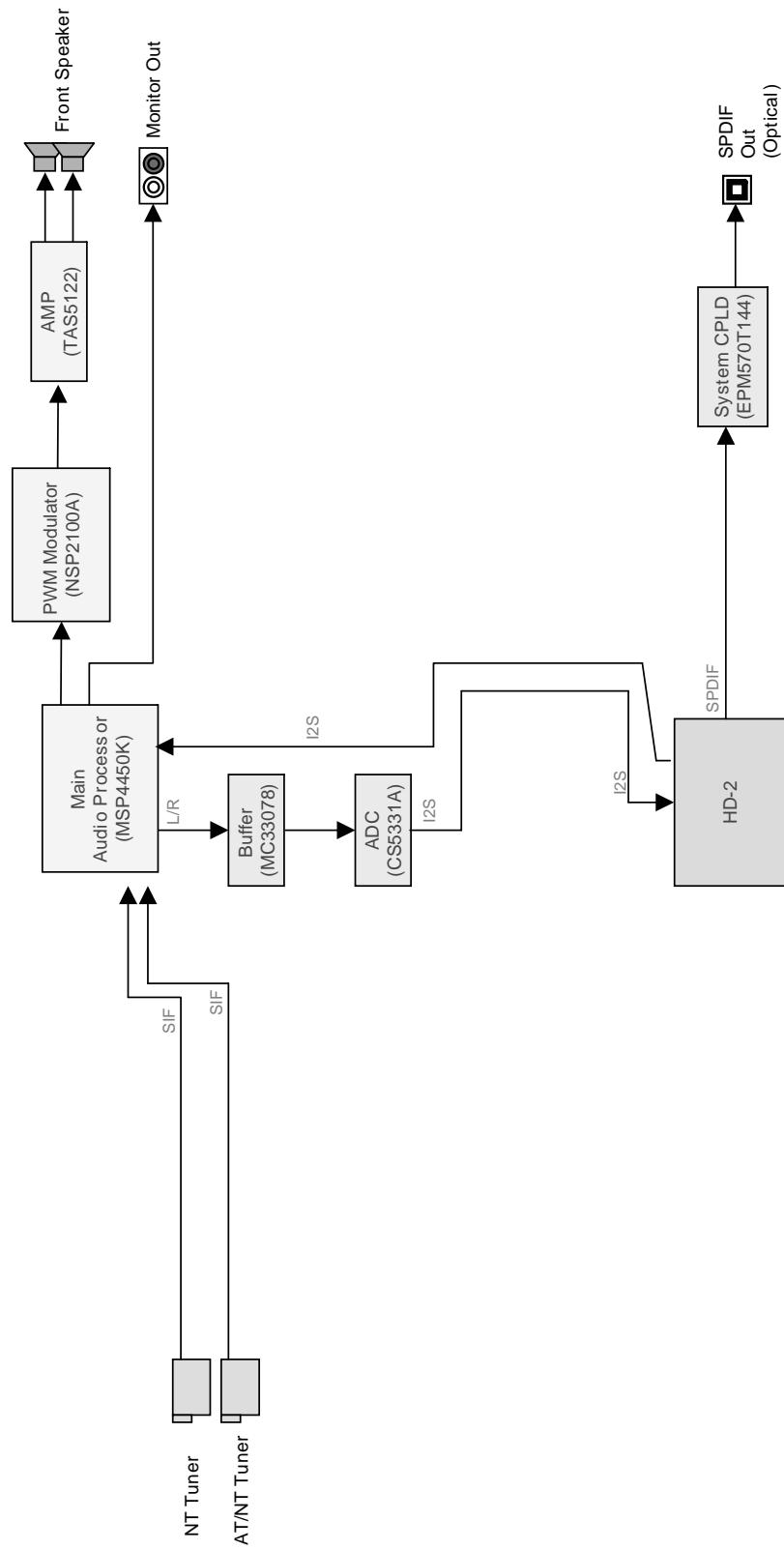
## • Audio Path



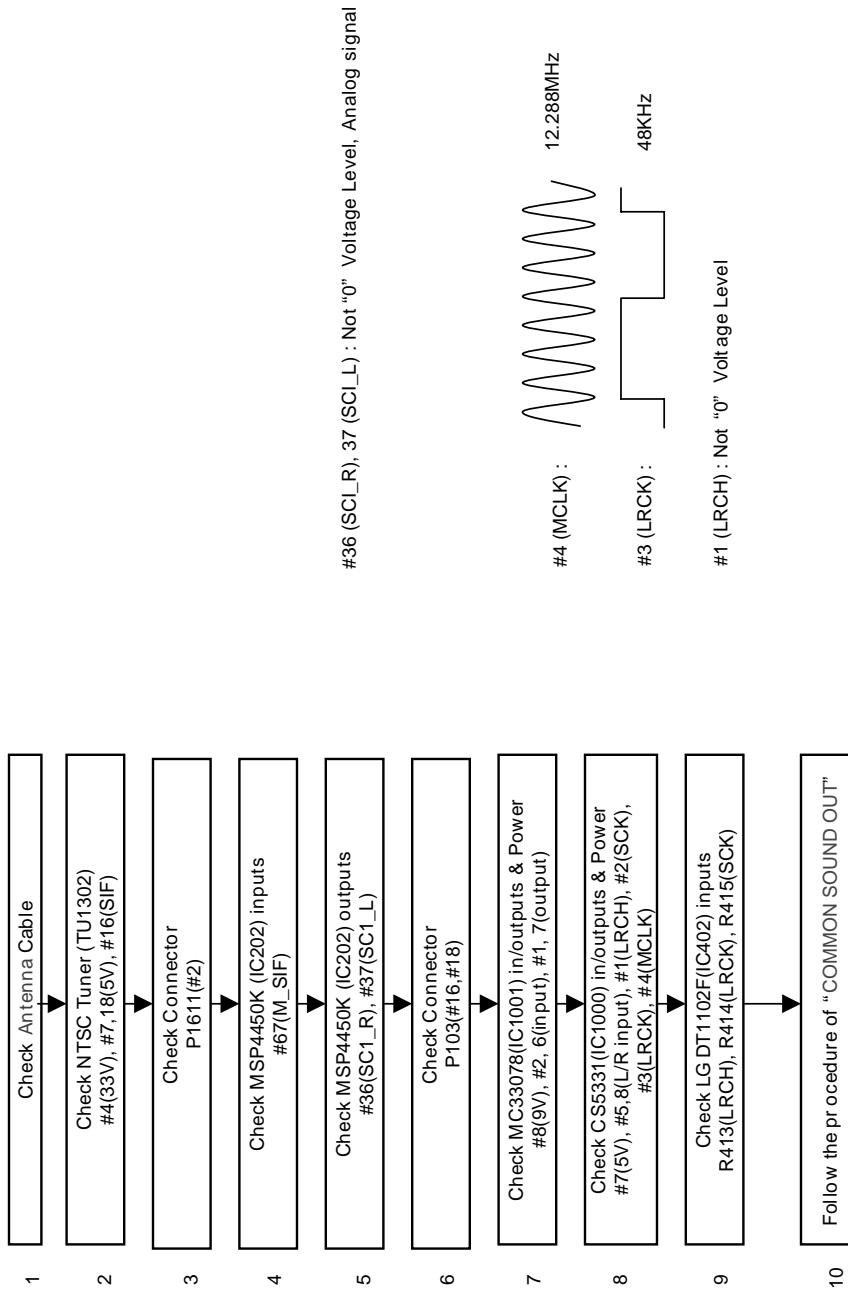
• Common sound out



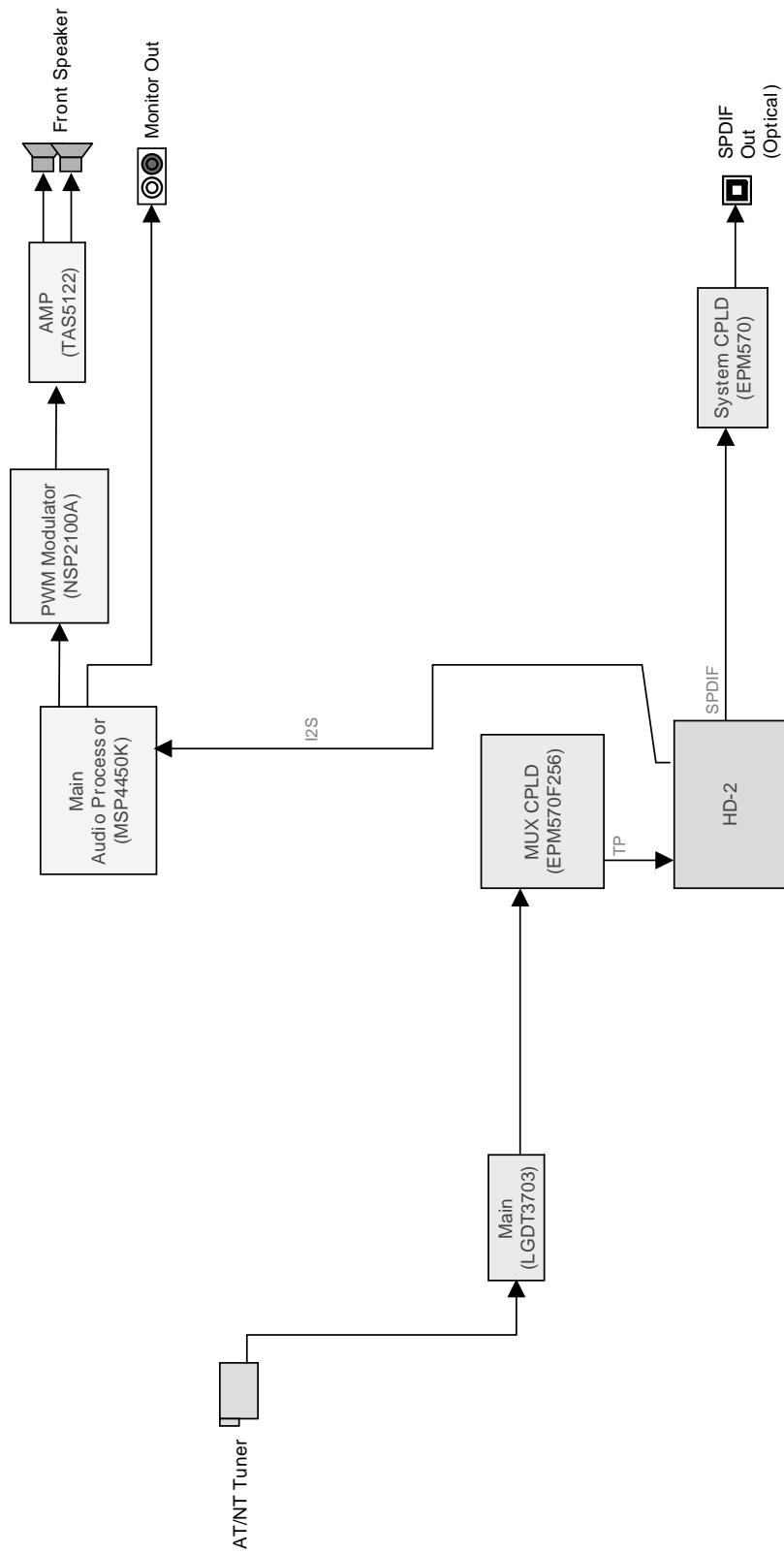
**• TV RF NO Sound**



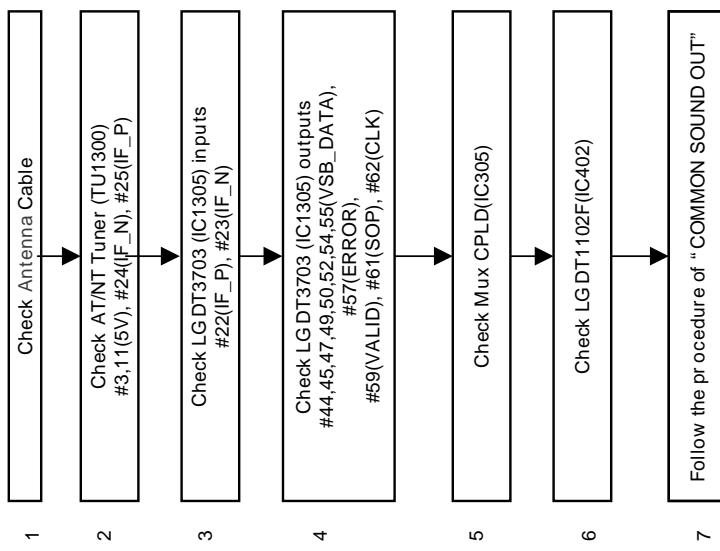
## • TV RF NO Sound



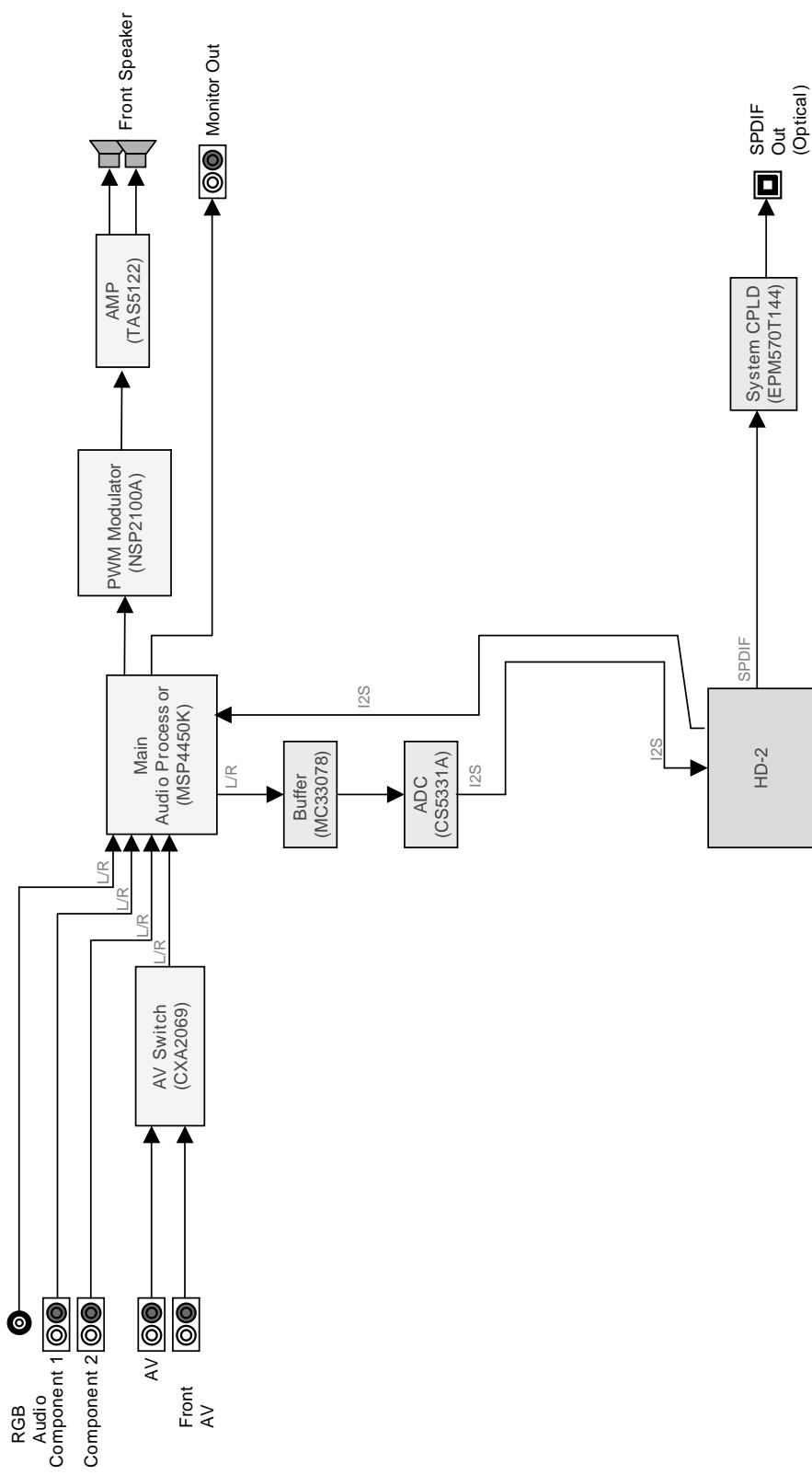
**• DTV NO Sound**



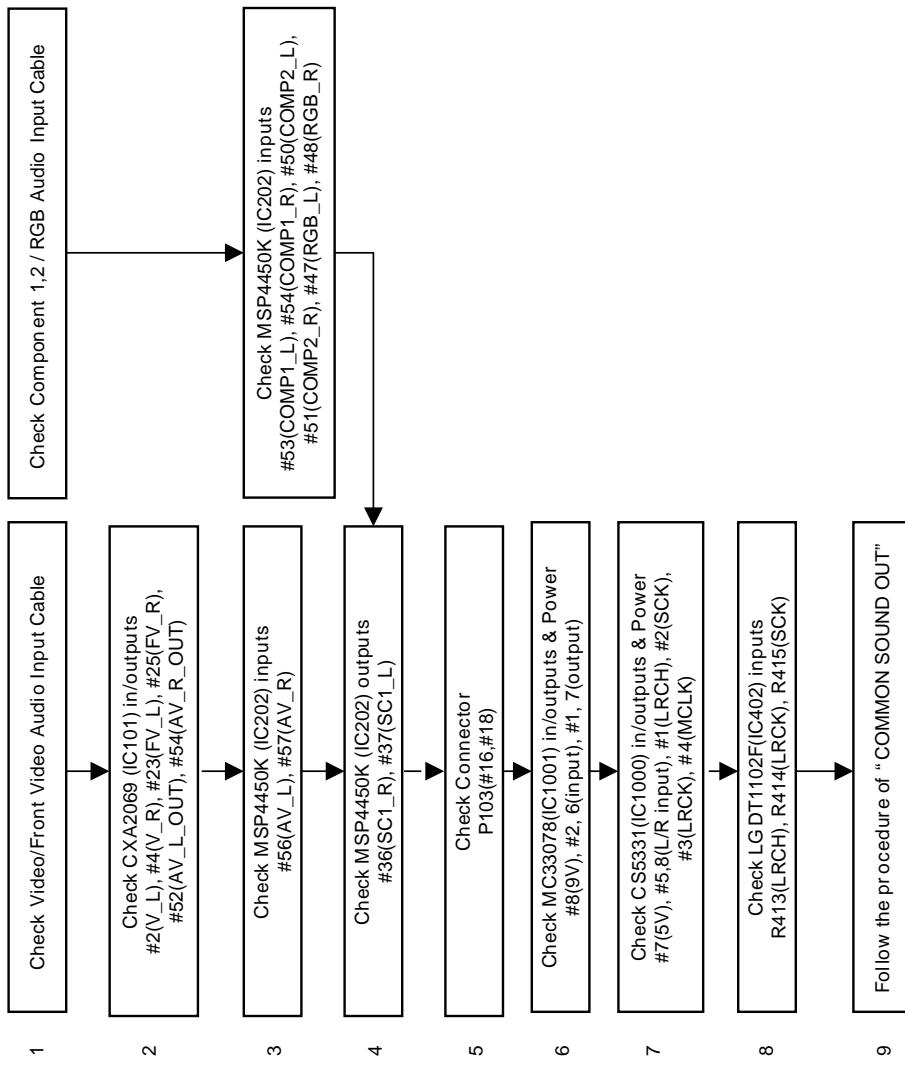
• DTV NO Sound



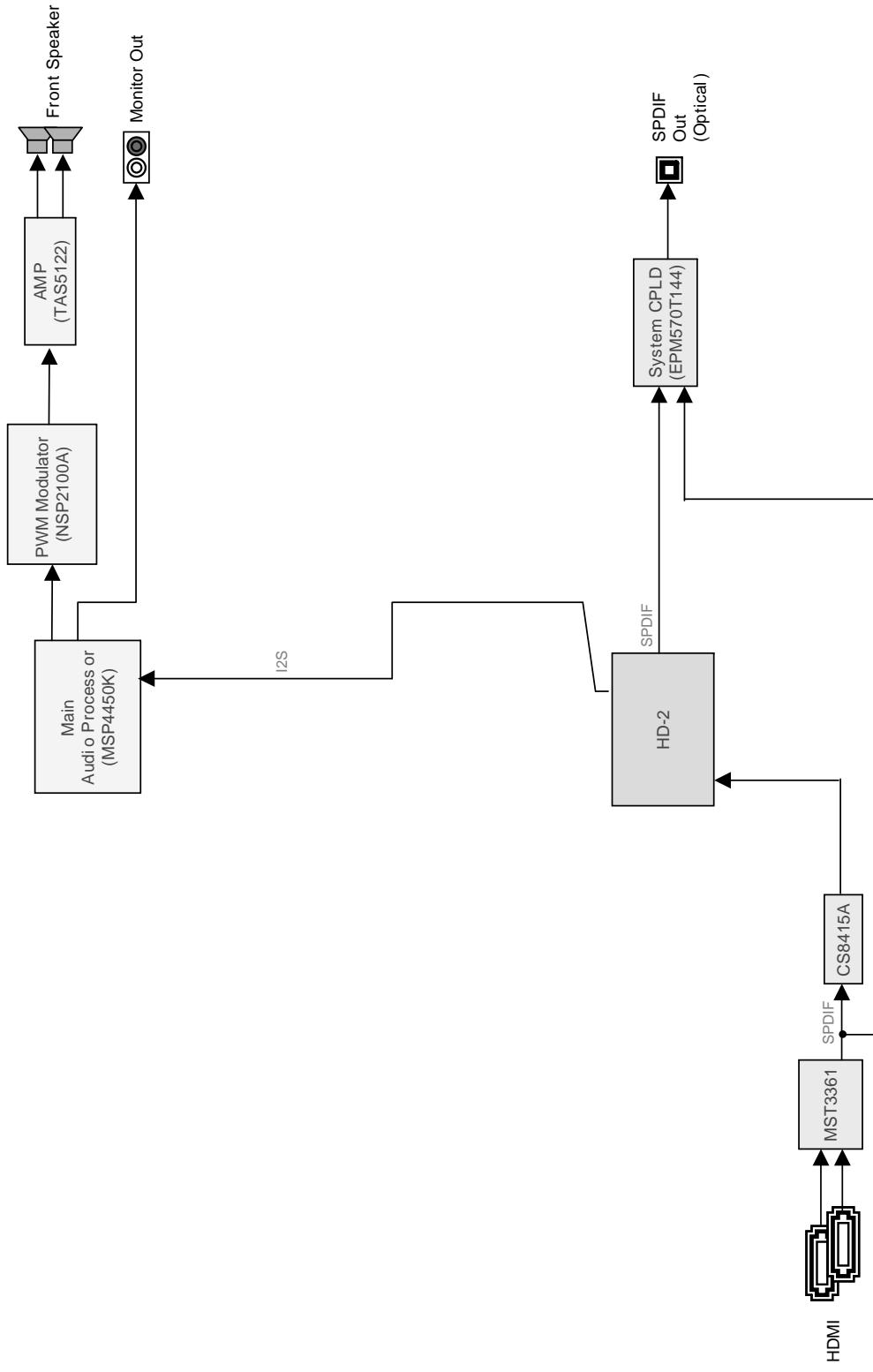
• AV/Component/RGB NO Sound



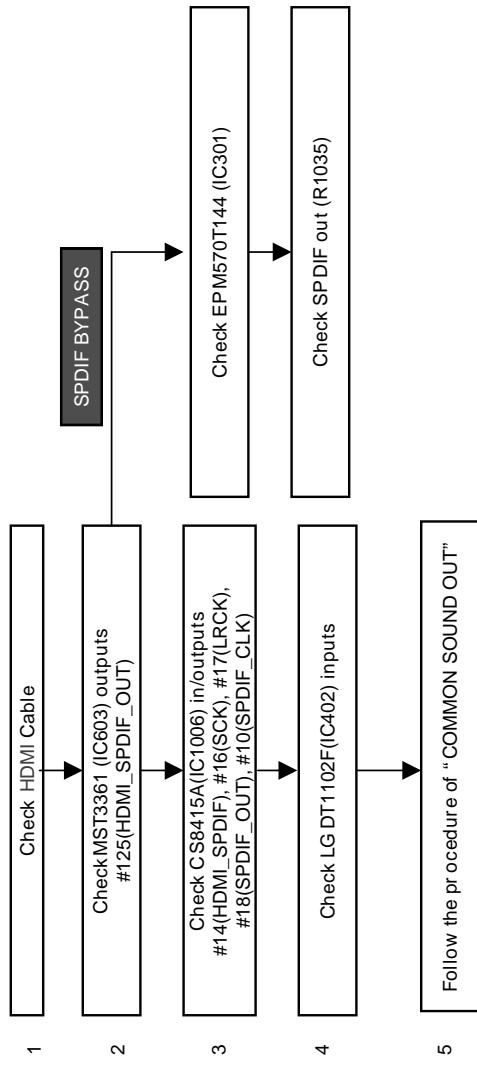
## • AV/Component/RGB NO Sound



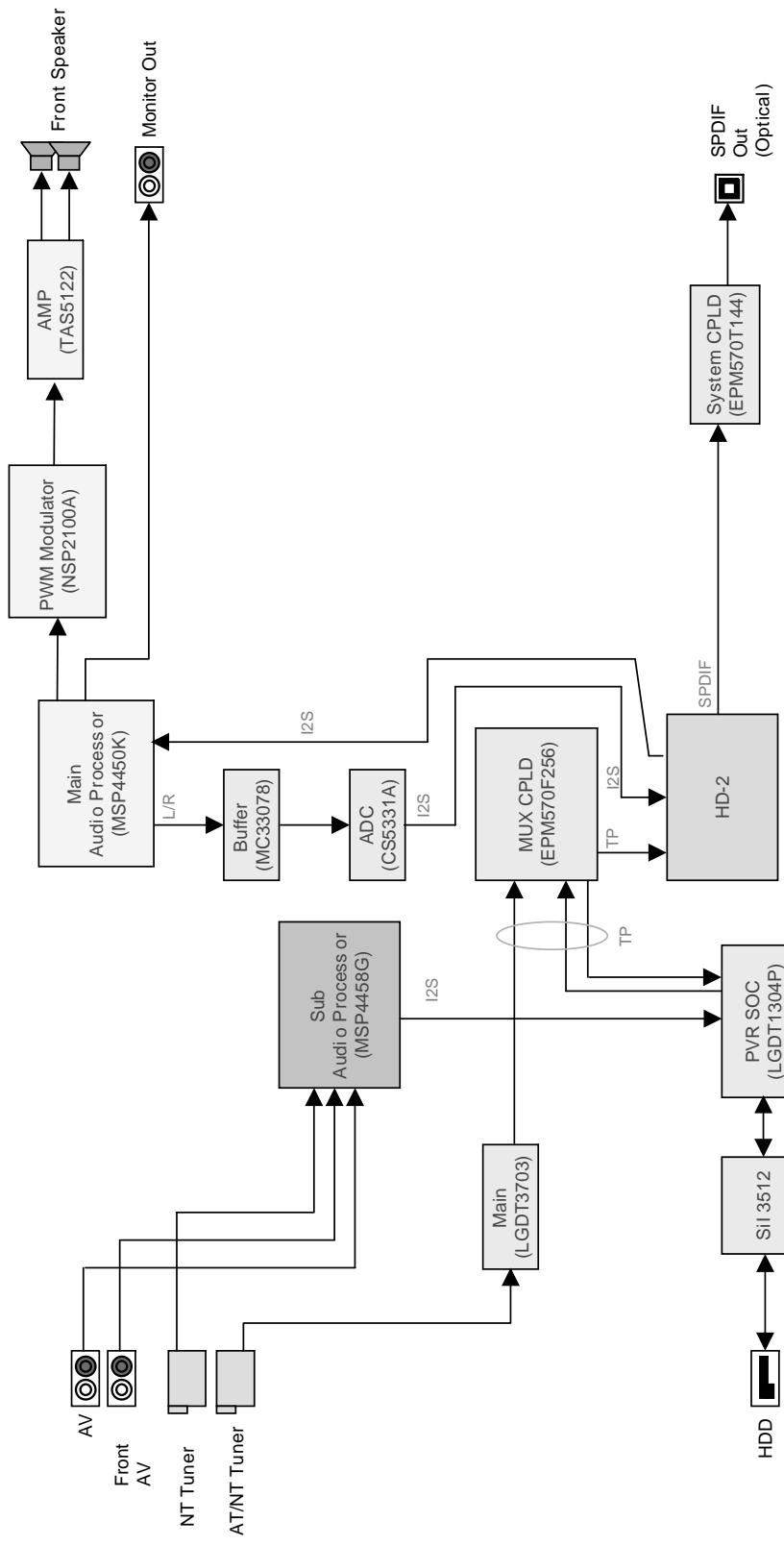
**• HDMI NO Sound**



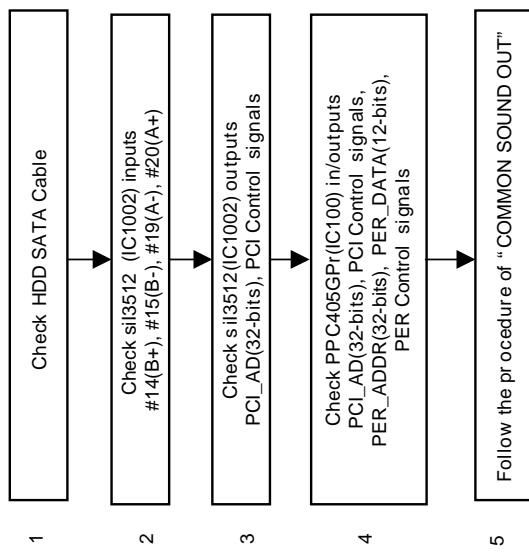
## • HDMI NO Sound



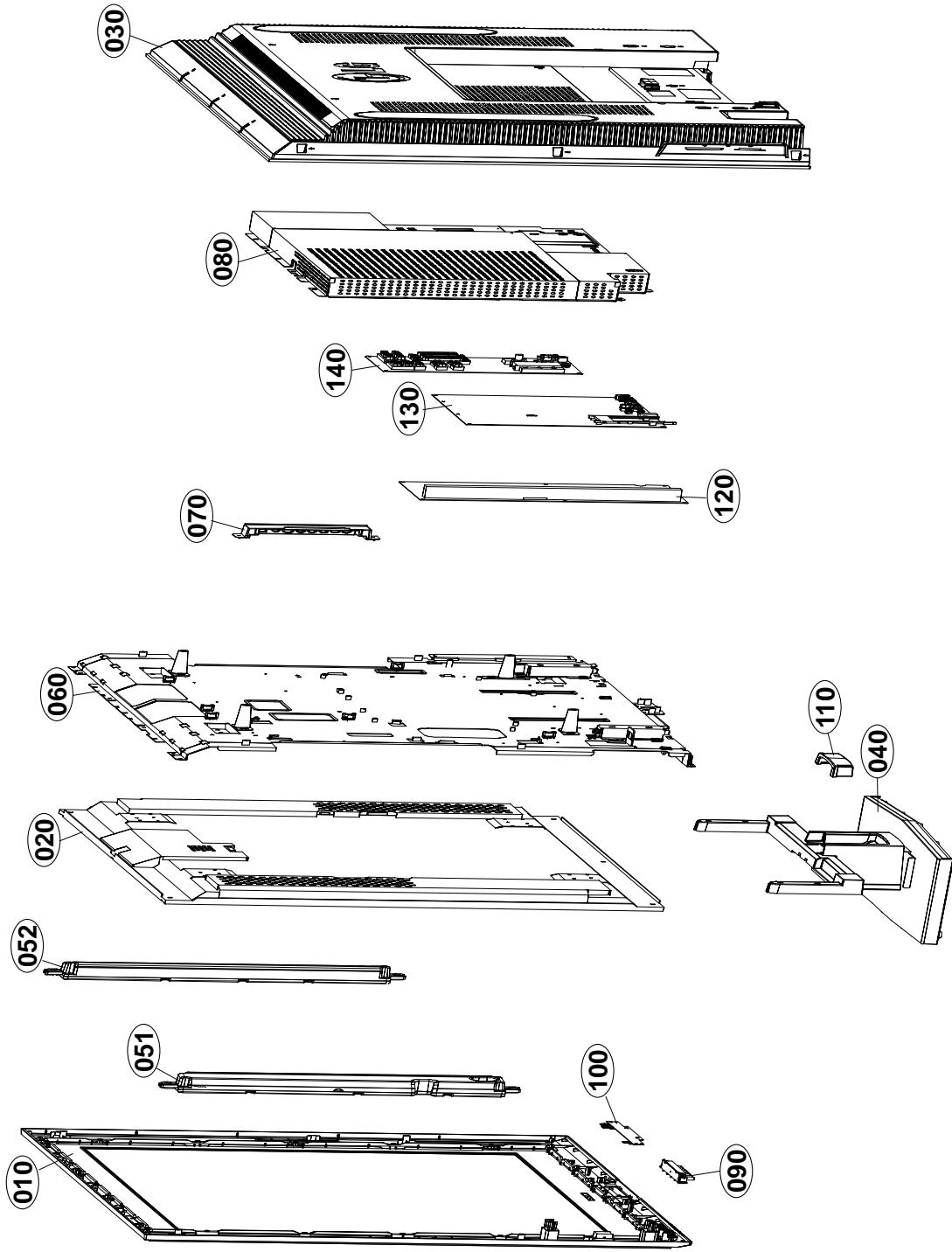
**• Record & Play No Sound**



**• Record & Play No Sound**



## EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	30919E0034E	Cover Assembly, 42LB1 BRAND . <b>42LB1DR-UA</b>
	30919E0034H	Cover Assembly, 42LB1 BRAND . <b>42LB1DR-UA(C/SKD)</b>
	30919E0034B	Cover Assembly, 42LB1 BRAND . <b>42LB1DRA</b>
	30919E0034G	Cover Assembly, 42LB1 BRAND . <b>42LB1DRA-UA(C/SKD)</b>
020	6304FLP295A	LCD,Module-TFT, <b>LC420W02-B6K1</b> DRIVER 42.0INCH 1366X768 500CD COLOR
	6304FLP363A	LCD,Panel-TFT, <b>LC420W02-SLA1</b> 42INCH 1365X768 500CD COLOR 72% -
030	3809900149B	Cover Assembly, 42LB1 NON 42LB1DRA
	3809900149E	Cover Assembly, 42LB1 NON 42LB1DR(A)-UA ( <b>C/SKD</b> )
040	3043900021E	Base Assembly, 42LB1DR-UA . <b>SILVER</b>
	3043900021F	Base Assembly, 42LB1DR-UA . <b>SILVER (C/SKD)</b>
	3043900021B	Base Assembly, 42LB1DRA-UA . <b>BLACK</b>
	3043900021D	Base Assembly, 42LB1DRA-UA . <b>BLACK (C/SKD)</b>
051	6401900127G	Speaker Assembly, 42LB1 SIDE RIGHT(42LB1DRA.42LB1D),E2(1800MM)
052	6401900127H	Speaker Assembly, 42LB1 SIDE LEFT(42LB1DRA.42LB1D),E2(400MM)
060	49519S0026N	Plate Assembly, FRAME 42LB1DR(A) (COST UP)
	49519S0026P	Plate Assembly, FRAME 42LB1DR(A) ( <b>C/SKD</b> )(COST UP)
070	68719ST936A	PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX SIDE A/V BOARD TOTAL
080	49519K0115A	Plate Assembly, SHIELD MAIN DIGITAL 42LB1DRA-UA
	49519K0115H	Plate Assembly, SHIELD MAIN DIGITAL 42LB1DR(A)-UA( <b>C/SKD</b> )
090	68719ST937A	PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX CONTROL KEY BOARD TOTAL
	68719ST937B	PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX CONTROL KEY FOR <b>C/SKD</b> TOTAL
100	68719ST938A	PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX INDEX BOARD TOTAL
110	4810900034A	Bracket, 42LB1 AB00EA SUPPORTER CABLE MANAGEMENT ABS MOLD ABS
120	6709900017A	Power Supply Assembly, YY LCD H3/E2 LCD MODEL LB LC 42INCH 42INCH
130	3313942001A	Main Total Assembly, LA61A DIGITAL BOARD TOTAL 42LB1DRA BRAND- <b>LPL Module</b>
	3313942001B	Main Total Assembly, LA61A <b>P7 MODULE</b> DIGITAL BOARD TOTAL 42LB1DR/42LB1DRA BRAND
140	68719ST939A	PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX HDD ASSY TOTAL
	68719STA42A	PCB Assembly,Sub, T.T LA61A SUB 42LB1DR/42LB1DRA SLUSLLM HDD TOTAL- <b>CSKD</b>
150	68719MT681A	PCB Assembly,Main, T.T LA61A MAIN2 42LB1DRA ALUSLLX ANALOG BOARD TOTAL

# REPLACEMENT PARTS LIST

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

CC, CX, CK, CN, CH : Ceramic  
CQ : Polyester  
CE : Electrolytic  
CF : Fixed Film

RD : Carbon Film  
RS : Metal Oxide Film  
RN : Metal Film  
RH : CHIP, Metal Glazed(Chip)  
RR : Drawing

*S	*AL	LOC. NO.	PART NO.	DATE: 2006. 02. 20.												
				DESCRIPTION / SPECIFICATION												
<b>DIGITAL BOARD</b>																
<b>CAPACITOR</b>																
		C100	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C1001	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C1002	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C1005	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1012	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1014	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C1015	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C1022	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1031	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C1032	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1045	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C1053	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1057	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1058	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1100	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C1105	OCE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5												
		C1107	OCE475WJ6DC	MVK4.0TP35VC4.7M 4.7u 20% 3												
		C1115	OCE335WK6D8	MVK4.0TP50VC3.3M 3.3u 20% 5												
		C1209	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1216	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1218	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C123	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C126	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1320	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1324	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1325	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1326	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1332	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C1334	OCE476WFKDC	MVK8.0TP50VC47M 47u 20% 50V												
		C1341	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1342	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1345	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1348	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1349	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1358	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1359	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1360	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1361	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1604	OCE337WJ6D8	MVK12.5TP35VC330M 330u 20%												
		C1605	OCE337WJ6D8	MVK12.5TP35VC330M 330u 20%												
		C1607	OCE477WF6DC	MVK10TP16VC470M 470u 20% 16												
		C1608	OCE477WF6DC	MVK10TP16VC470M 470u 20% 16												
		C1613	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1616	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1619	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1622	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C1623	OCE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5												
		C1627	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1638	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1640	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C1641	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C216	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C230	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C3039	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C304	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C3041	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C3077	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C3078	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C308	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C401	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C404	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C461	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												

*S	*AL	LOC. NO.	PART NO.	DATE: 2006. 02. 20.												
				DESCRIPTION / SPECIFICATION												
<b>DIGITAL BOARD</b>																
<b>CAPACITOR</b>																
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		C481	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C482	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C528	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C531	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C534	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C601	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C608	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C613	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C617	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C619	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C621	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C623	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C627	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
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		C637	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
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		C655	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C666	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C668	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C7002	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
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		C702	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C703	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C7043	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7046	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7048	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7049	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7052	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7053	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C7054	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C709	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C737	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C773	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C774	OCE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V												
		C780	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C801	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C803	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C806	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C807	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C810	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C813	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C815	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C822	OCE106WFKDC	MVK4.0TP16VC100M 10u 20% 16V												
		C827	OCE336WHD8	MVK6.3TP25VC33M 33u 20% 25V												
		C838	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C840	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C9006	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C9015	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C916	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C918	OCE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V												
		C919	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C936	OCE477WF6DC	MVK10TP16VC470M 470u 20% 16												
		C937	OCE107WF6DC	MVK6.3TP16VC100M 100u 20% 1												
		C938	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C944	OCE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V												
		C945	OCE477WF6DC	MVK10TP16VC470M 470u 20% 16												
		C1004	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1006	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1007	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1008	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1009	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1010	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1011	OCK104CK56A	0603B104K500CT 100n 10% 50V												
		C1016	OCK104CK56A	0603B104K500CT												



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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C221	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C222	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C224	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C225	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C226	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C227	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C228	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3002	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C3003	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C3004	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3005	0CC180CK41A	C1608C0G1H180JT 18p 5% 50V
		C3006	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3007	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3008	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3009	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C301	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3010	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3011	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3012	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3013	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3014	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3015	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3016	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3017	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3018	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3019	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C302	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3020	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3021	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3022	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3023	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3024	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3025	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3026	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3027	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3028	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3029	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C303	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3030	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3031	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3032	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3033	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3034	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3035	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3036	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3037	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3038	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3040	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3042	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3043	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3045	0CC100CK41A	C1608C0G1H100JT 10p 5% 50V
		C3047	0CC100CK41A	C1608C0G1H100JT 10p 5% 50V
		C305	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C306	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C307	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3079	0CK226FF67A	EMK325BJ226MM-T 22u 20% 16V
		C3080	0CK226FF67A	EMK325BJ226MM-T 22u 20% 16V
		C3081	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C309	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C310	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C311	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C313	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C314	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C315	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C320	0CH2334F566	0805B334K160CT 330n 10% 16V
		C325	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C329	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C330	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C331	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C332	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C333	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C334	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C335	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C336	0CK104CK56A	0603B104K500CT 100n 10% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C466	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C467	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C468	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C469	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C470	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C471	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C472	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C473	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C474	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C475	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C476	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C477	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C479	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C483	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C484	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C485	OCC150CK41A	C1608C0G1H150JT 15p 5% 50V
		C500	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C501	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C502	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C503	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C505	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C506	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C507	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C510	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C512	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C513	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C514	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C515	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C516	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C519	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C520	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C521	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C523	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C524	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C525	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C527	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C533	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C536	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C539	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C540	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C541	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C600	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C602	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C603	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C604	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C605	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C606	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C607	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C609	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C610	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C611	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C612	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C614	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C615	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C616	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C618	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C620	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C622	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C624	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C625	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C626	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C628	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C630	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C638	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C639	0CK102CK56A	0603B102K500CT 1n 10% 50V X
		C641	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C642	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C643	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C645	0CK473CK56A	C1608X7R1E473KT 47n 10% 25V
		C648	0CK473CK56A	C1608X7R1E473KT 47n 10% 25V
		C650	0CK473CK56A	C1608X7R1E473KT 47n 10% 25V
		C651	OCC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C652	OCC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C660	0CK104CK56A	0603B104K500CT 100n 10% 50V



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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C965	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C966	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C967	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C968	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C969	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C970	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C971	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C972	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C973	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C974	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C975	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C976	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C977	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C978	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C979	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C980	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C981	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C982	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C983	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C984	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C985	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C986	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C987	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C988	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C989	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C990	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C991	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C992	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C993	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C994	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C995	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C996	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C997	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C998	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C999	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1000	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1003	0CC470CK41A	C1608C0G1H470JT 47p 5% 50V
		C1013	0CC470CK41A	C1608C0G1H470JT 47p 5% 50V
		C102	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1036	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1037	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1038	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1039	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1046	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1051	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1056	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1059	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1104	0CC561CK41A	C1608C0G1H561JT 560p 5% 50V
		C1108	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C1109	0CK271CK46A	0603B271J500CT 270p 5% 50V
		C1110	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1111	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1200	0CC200CK41A	C1608C0G1H200JT 20p 5% 50V
		C1204	0CC200CK41A	C1608C0G1H200JT 20p 5% 50V
		C1213	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1217	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1223	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1236	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1237	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1238	0CK105DF64A	0805F105Z160CT 1u -20TO+80%
		C124	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1346	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1354	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1355	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1356	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1357	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C1362	0CC050CK11A	C1608C0G1H050DT 5p 0.5PF 50
		C1363	0CC050CK11A	C1608C0G1H050DT 5p 0.5PF 50
		C1370	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1386	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1387	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1391	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1392	0CK105DF64A	0805F105Z160CT 1u -20TO+80%
		C1395	0CK104CK56A	0603B104K500CT 100n 10% 50V

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1396	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1618	0CK102CK56A	0603B102K500CT 1n 10% 50V X
		C1621	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C1625	0CK102CK56A	0603B102K500CT 1n 10% 50V X
		C1626	0CK102CK56A	0603B102K500CT 1n 10% 50V X
		C1628	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C200	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C206	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C211	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C217	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C218	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C223	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C229	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C231	0CC150CK41A	C1608C0G1H150JT 15p 5% 50V
		C232	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C233	0CC150CK41A	C1608C0G1H150JT 15p 5% 50V
		C234	0CC150CK41A	C1608C0G1H150JT 15p 5% 50V
		C3000	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3001	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3044	0CC100CK41A	C1608C0G1H100JT 10p 5% 50V
		C3046	0CC100CK41A	C1608C0G1H100JT 10p 5% 50V
		C3070	0CC050CK11A	C1608C0G1H050DT 5p 0.5PF 50
		C3071	0CC050CK11A	C1608C0G1H050DT 5p 0.5PF 50
		C3075	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C3076	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C312	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C316	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C317	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C321	0CH2334F566	0805B334K160CT 330n 10% 16V
		C322	0CK473CK56A	C1608X7R1E473KT 47n 10% 25V
		C323	0CH2334F566	0805B334K160CT 330n 10% 16V
		C324	0CH2334F566	0805B334K160CT 330n 10% 16V
		C326	0CC221CK41A	C1608C0G1H221JT 220p 5% 50V
		C327	0CC221CK41A	C1608C0G1H221JT 220p 5% 50V
		C328	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C348	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C349	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C350	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C480	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C504	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C508	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C509	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C511	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C517	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C518	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C522	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C526	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C529	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C530	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C532	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C535	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C537	0CC100CK41A	C1608C0G1H100JT 10p 5% 50V
		C538	0CC270CK41A	C1608C0G1H270JT 27p 5% 50V
		C542	0CC150CK41A	C1608C0G1H150JT 15p 5% 50V
		C631	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C632	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C633	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C640	0CC470CK41A	C1608C0G1H470JT 47p 5% 50V
		C644	0CK473CH56A	C1608X7R1E473KT 47n 10% 25V
		C646	0CK102CK56A	0603B102K500CT 1n 10% 50V X
		C647	0CK473CH56A	C1608X7R1E473KT 47n 10% 25V
		C649	0CK473CH56A	C1608X7R1E473KT 47n 10% 25V
		C654	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C656	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C659	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C667	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C672	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C7001	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C7003	0CK474CH94A	0603F474Z250CT 470n -20TO+8
		C7006	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C7007	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C7028	0CC180CK41A	C1608C0G1H180JT 18p 5% 50V
		C7029	0CC180CK41A	C1608C0G1H180JT 18p 5% 50V
		C708	0CK104CK56A	0603B104K500CT 100n 10% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C711	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C718	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C719	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C720	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C725	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C729	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C730	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C731	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C732	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C733	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C734	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C735	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C779	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C781	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C784	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C789	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C794	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C797	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C798	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C799	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C802	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C804	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C808	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C828	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C842	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C844	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C901	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C9016	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C9017	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C902	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C903	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C904	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C905	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C906	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C907	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C908	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C909	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C910	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C911	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C912	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C913	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C914	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C915	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C920	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C929	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C931	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C932	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C933	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C934	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C935	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C940	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C941	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C942	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C943	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C946	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C957	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C960	OCK104CK56A	0603B104K500CT 100n 10% 50V

#### DIODES

D1300	ODS113379BA	1SS133 1200MV 90V 400MA 600
D601	ODD184009AA	KDS184 1200MV 85V 300MA 2A
D602	ODD184009AA	KDS184 1200MV 85V 300MA 2A
D302	ODRSE00038A	SDC15 1300MV 14.3VTO16.4V 2
D303	ODRSE00038A	SDC15 1300MV 14.3VTO16.4V 2
D600	ODRSE00048A	RCLAMP0504M 1200MV 6V 25V 1
D603	ODRSE00048A	RCLAMP0504M 1200MV 6V 25V 1
D604	ODRSE00048A	RCLAMP0504M 1200MV 6V 25V 1
D605	ODRSE00048A	RCLAMP0504M 1200MV 6V 25V 1

#### IC

IC1000	0ICB533100A	CS5331A-KSR 4.75TO5.25V 48K
IC603	0IPRP00696A	MST3361M-LF-110 3.3V_2.5V -

DATE: 2006. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC1303	OIPRP00538A	FSA1156P6X-NL 1.65TO5.5V 40
		IC203	OIMCRCY002A	CY2309SC-1HT 3TO3.6V --
		IC210	OIMCRCY002A	CY2309SC-1HT 3TO3.6V --
		IC504	OIPRFBM001B	PPC405GPR-3JB266C 1.7TO1.9V
		IC100	OIMCR02015A	SII3512ECTU128 1.71TO1.89V
		IC1101	OISTL00024A	MC14053BDR2G 3TO18V 0.02mA
		IC1202	OIMCRFA013A	74LCX244MTC 2TO3.6V 0.01mA
		IC303	OIMCRFA013A	74LCX244MTC 2TO3.6V 0.01mA
		IC306	OISLPH026A	74LVC14APW 1.2TO3.6V 0.01mA
		IC1102	OIPMGNS026A	LM311MX 5V +15V +30V 50NA
		IC909	OIMMR00159A	HY5DU573222FP-33 256MBIT 8M
		IC209	OIMCRAL021A	AT24C512W-10SI-2.7 512KBIT
		IC604	OIMMRCJS012B	CAT24WC08W-T(MST3000) 8KBIT
		IC605	OIMMRAL014B	AT24C02N-10SI-2.7 2KBIT 256
		IC606	OIMMRAL014B	AT24C02N-10SI-2.7 2KBIT 256
		IC1603	OIMI623200B	"M62320P,FP 4.5TO5.5V 0.05mA"
		IC610	OIPRPF0016A	FMS6407MTC20X-NL 4.75TO5.25
		IC702	OIPRPF0015B	"FMS6400CS1X,LF 4.75TO5.25 5"
		IC704	OIPRPF0015B	"FMS6400CS1X,LF 4.75TO5.25 5"
		IC1602	OIMCRKE006A	KIA278R05P1 6TO12V 5V 1500M
		IC1003	OIPMGKE032A	KIA78R09F 10TO25V 9V 8W DPA
		IC1007	OIPMG00049A	AZ1117H-1.8 3.2TO10V 1.8V -
		IC101	OIPMG00049A	AZ1117H-1.8 3.2TO10V 1.8V -
		IC1201	OIMCRJS001B	SC1565IST-2.5TR 2.2TO5V 2.5
		IC1300	OIPMG78403A	AZ1086S-1.8TRE1 3.2TO10V 1.
		IC1301	OIPMG00049A	AZ1117H-1.8 3.2TO10V 1.8V -
		IC1307	OIPMGAE010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC1607	OIPMGKE032A	KIA78R09F 10TO25V 9W DPA
		IC401	OIPMG78403A	AZ1086S-1.8TRE1 3.2TO10V 1.
		IC403	OIPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC601	OIPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC609	OIMCRJS001B	SC1565IST-2.5TR 2.2TO5V 2.5
		IC707	OIPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC708	OIPMG0028A	AZ1117H-1.5 3TO10V 1.5V - S
		IC801	OIPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC802	OIPMG78403A	AZ1086S-1.8TRE1 3.2TO10V 1.
		IC904	OIMCRJS001B	SC1565IST-2.5TR 2.2TO5V 2.5
		IC906	OIPMG78403A	AZ1086S-1.8TRE1 3.2TO10V 1.
		IC1100	OIMCRMT003A	MM1108XXFE 4.5TO5.5V 4.4mA
		IC1103	OIMCRMP006A	PIC18F1220T-I/SO 4.2TO5.5V
		IC1306	OICTM00006C	-- TQFP TR 128P
		IC1001	OISTL00029A	MC33078DR2G +-5TO+-18V 2mV
		IC301	OIPRP00687A	EPM570T144C5N 3TO3.6V_2.375
		IC305	OIPRP00687B	EPM570F256C5N 3TO3.6V_2.375
		IC1204	OIPRPM004B	"MIC2562A-0YM,LF 3.3V_5V - 8"
		IC1205	OIPRPM004B	"MIC2562A-0YM,LF 3.3V_5V - 8"
		IC1006	0ICB841500B	"CS8415A-CZR 4500MV TO5500MV,"
		IC201	OIMMRHY038E	HY57V561620CTP-H 256MBIT 4M
		IC202	OIMMRHY038E	HY57V561620CTP-H 256MBIT 4M
		IC500	OIMMR00141A	HY57V641620ETP-6 64MBIT 1MX
		IC501	OIMMR00141A	HY57V641620ETP-6 64MBIT 1MX
		IC502	OIMMR00141A	HY57V641620ETP-6 64MBIT 1MX
		IC503	OIMMR00141A	HY57V641620ETP-6 64MBIT 1MX
		IC703	OIMMR00080A	HY57V161610ETP-6 16MBIT 512
		IC706	OIMMR00080A	HY57V161610ETP-6 16MBIT 512
		IC1200	OICTMLG017A	"LGDT3502B 3VTO3600MV,2250MV"
		IC304	OIPRP00009A	ICL3232CBNZ 3VTO5500MV - SS
		IC803	OIMCRTH002A	THC63LVD103 3.0TO3.6 1W TQF
		IC1305	OICTM00006B	LGDT3703D LG SYSTEM IC 128P
		IC206	OIMCRPH026B	PA9516APW PHILIPS 16P TSSOP
		IC402	OICTMLG009E	LGDT1102F HD2.4 LG IC 432P
		IC505	OICTMLG013B	LGDT1901B LG IC SSOP 24P TR
		IC804	OICTMLG018C	"LGDP4412, IEP3 LG IC 452P,T"
		IC701	OIPRPNE011B	"UPD64015AGM-UEU-A,LF 3.0TO3"
		IC705	OIPRPNE011B	"UPD64015AGM-UEU-A,LF 3.0TO3"
		IC908	OICTM00040A	"LGDT1304P 3.0TO3.6.2.375TO2"
		IC302	OIKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC1304	OIPMGON013B	MC34063ADR2G 3TO40V 40V 625
		IC1302	OIMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
		IC1601	OIMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
		IC907	OIPMG78391A	SC2595STR 2.3TO5V - - SOIC
		IC204	OIMMRAM006B	S29JL064H-90TA100 64MBIT -
		IC205	OIMMRAM006B	S29JL064H-90TA100 64MBIT -

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC207	0IMMRMR027E	MX29LV320CTTC-70G 32MBIT 4M
		IC208	0IMMRMR027E	MX29LV320CTTC-70G 32MBIT 4M

**COIL & CORE & INDUCTOR**

	L1601	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
	L1602	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
CN300	6630G70017A	A02-0915-101 D-SUB 9P 2.54M	
B200	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1004	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1100	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1301	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1303	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1308	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1311	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1312	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1315	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1316	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1317	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1318	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1319	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1325	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1326	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1327	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1606	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L301	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L401	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L402	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L403	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L404	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L601	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L602	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L603	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L604	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L605	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L606	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L607	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L608	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L612	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L701	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L702	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L703	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L704	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L705	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L706	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L707	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L803	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L804	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L805	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L806	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L900	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L901	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L902	OLCML00003B	MLB-201209-0120P-N2 1200HM	
B116	OLCML00003B	MLB-201209-0120P-N2 1200HM	
B201	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1002	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1200	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1201	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L1605	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L501	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L503	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L504	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L611	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L801	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L802	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L807	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L808	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L903	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L904	OLCML00003B	MLB-201209-0120P-N2 1200HM	
L905	OLCML00003B	MLB-201209-0120P-N2 1200HM	
R1660	6210TCE0013	HB-1M1608-121JT 1200HM 1.6X	
R1661	6210TCE0013	HB-1M1608-121JT 1200HM 1.6X	
R203	6210TCE0013	HB-1M1608-121JT 1200HM 1.6X	
R204	6210TCE0013	HB-1M1608-121JT 1200HM 1.6X	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R244	6210TCE0013	HB-1M1608-121JT 1200HM 1.6X
		L1000	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1001	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1003	OLCML00020C	MLI-201212-100K 10UH 10% -
		L1005	OLCML00020C	MLI-201212-100K 10UH 10% -
		L1304	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1305	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1306	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1322	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1323	OLCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L100	OLC233002A	FI-B2012-332KJT 3.3UH 10% -
		L1309	OLC6461201A	D75C-646CY-121M=P3 120UH 20
		L505	OLCML00020D	MLI-201212-220K 22UH 10% -

**TRANSISTOR**

Q1600	OTFVI80067A	SI3865BDV N-CHANNEL MOSFET
Q1602	OTFVI80067A	SI3865BDV N-CHANNEL MOSFET
Q1603	OTFVI80067A	SI3865BDV N-CHANNEL MOSFET
Q603	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
Q604	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
Q608	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
Q609	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
Q802	OTF492509AA	SI4925DY P-CHANNEL -30V +2
Q1100	OTR387500AA	2SC3875S NPN 5V 60V 50V 150
Q1300	OTR387500AA	2SC3875S NPN 5V 60V 50V 150
Q1302	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q1303	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q1305	OTR387500AA	2SC3875S NPN 5V 60V 50V 150
Q1309	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q1311	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q1312	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q801	OTR387500AA	2SC3875S NPN 5V 60V 50V 150
Q1101	OTR390609DC	2N3906S PNP -5V -40V -40V
Q500	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q501	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q601	OTR102009AJ	KRC102S NPN 30V - 50V 100MA
Q602	OTR102009AJ	KRC102S NPN 30V - 50V 100MA
Q605	OTR102009AJ	KRC102S NPN 30V - 50V 100MA
Q610	OTR102009AJ	KRC102S NPN 30V - 50V 100MA
Q701	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q702	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q705	OTR150400BA	KTA1504S PNP -5V -50V -50V
Q707	OTR387500AA	2SC3875S NPN 5V 60V 50V 150
Q708	OTR150400BA	KTA1504S PNP -5V -50V -50V

**RESISTORs**

AR116	0RJ4701C687	RCA86TRJ4K70 4.7KOHM 5% 1/1
AR117	0RJ4701C687	RCA86TRJ4K70 4.7KOHM 5% 1/1
AR118	0RJ4701C687	RCA86TRJ4K70 4.7KOHM 5% 1/1
AR1300	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR1302	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR1304	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR300	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR301	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR302	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR303	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR304	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR305	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR306	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR307	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR308	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR309	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR310	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
AR400	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR401	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR402	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR403	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR404	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR405	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR406	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR407	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W
AR408	0RZVTA001D	RCA86TRJ22R0 220HM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
		AR500	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1009 ORJ4701D677
		AR501	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1010 ORJ4701D677
		AR502	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1011 ORJ4702D677
		AR503	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1012 ORJ4701D677
		AR504	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1013 ORJ4701D677
		AR505	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1014 ORJ1000D677
		AR506	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1022 ORJ1001D477
		AR507	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1023 ORJ0222D677
		AR508	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1026 ORJ1005D677
		AR509	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1029 ORJ0000D677
		AR510	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R103 ORJ1001D677
		AR511	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1030 ORJ1201D677
		AR512	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1031 ORJ0000D677
		AR513	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R1032 ORJ0000D677
		AR514	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R104 ORJ1001D677
		AR515	ORJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W	R107 ORJ4701D677
		AR601	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1102 ORJ8252D477
		AR602	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1103 ORJ152D677
		AR603	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1105 ORJ1003D477
		AR604	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1107 ORJ0000D677
		AR605	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1111 ORJ1001D677
		AR606	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1112 ORJ1001D677
		AR607	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1115 ORJ4701D677
		AR608	ORJ0000C687	RCA86TRJ0000 0OHM 5% 1/16W	R1116 ORJ1001D677
		AR701	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R112 ORJ1001D677
		AR703	ORRZVTA001D	RCA86TRJ100R 100OHM 5% 1/16	R1121 ORJ0152D677
		AR704	ORRZVTA001D	RCA86TRJ100R 100OHM 5% 1/16	R1122 ORJ0222D677
		AR705	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1123 ORJ4700D677
		AR706	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1124 ORJ2201D677
		AR707	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1125 ORJ4702D677
		AR708	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1126 ORJ0222D677
		AR709	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1127 ORJ1002D677
		AR710	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1128 ORJ0332D677
		AR711	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1129 ORJ0332D677
		AR712	ORJ1000C687	RCA86TRJ100R 100OHM 5% 1/16	R1130 ORJ0222D677
		AR801	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1131 ORJ0222D677
		AR802	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1132 ORJ0222D677
		AR803	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R114 ORJ0222D677
		AR804	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R119 ORJ1001D677
		AR805	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R120 ORJ0000D677
		AR806	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1200 ORJ4701D677
		AR807	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1201 ORJ4701D677
		AR808	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1206 ORJ0000D677
		AR809	ORRZVTA001D	RCA86TRJ22R0 22OHM 5% 1/16W	R121 ORJ3301D677
		AR900	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1212 ORJ0222D677
		AR901	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1213 ORJ0222D677
		AR902	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1215 ORJ0222D677
		AR903	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1219 ORJ222D677
		AR904	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R122 ORJ3301D677
		AR905	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1224 ORJ0332D677
		AR906	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1247 ORJ0000D677
		AR907	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1248 ORJ1002D677
		AR908	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1249 ORJ1002D677
		AR909	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1252 ORJ1002D677
		AR910	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1260 ORJ2000D677
		AR911	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1261 ORJ2000D677
		AR912	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1263 ORJ1003D677
		AR913	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1264 ORJ0000D677
		AR914	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1266 ORJ0332D677
		AR915	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1268 ORJ4701D677
		AR916	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1269 ORJ1001D677
		AR917	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R127 ORJ1001D677
		AR918	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1290 ORJ1002D677
		AR919	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1292 ORJ1002D677
		AR920	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1297 ORJ4701D677
		AR921	ORHZTCZ001D	RCA86TRJ22R0 22OHM 5% 1/16W	R1299 ORJ4701D677
		AR923	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1300 ORJ0000D677
		AR924	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1301 ORJ0000D677
		AR925	ORJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W	R1305 ORJ1000D677
		R1302	ORD0331H609	RD-92T1J3R30 3300MOHM 5% 1/2W	R1306 ORJ1000D677
		R1634	ORD0332H609	RD-92T1J3R30 330OHM 5% 1/2W	R1307 ORJ1001D677

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1308	ORJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1309	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R131	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1310	ORJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1311	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1313	ORJ1800D677	MCR03EZPJ181 180OHM 5% 1/10
		R1314	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1315	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1316	ORJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1317	ORJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1318	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1322	ORJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W
		R1323	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1324	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R1329	ORJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1330	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1333	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1339	ORJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R134	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1341	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R135	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R136	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1360	ORJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W
		R1365	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1367	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1369	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1376	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1387	ORJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R1391	ORJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R140	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R142	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R146	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R147	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R149	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R150	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R152	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R153	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R154	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R155	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R156	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R158	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R159	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R160	ORJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W
		R1616	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1617	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1618	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1619	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1620	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1621	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1622	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1641	ORJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10
		R1642	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1650	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1690	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1696	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1805	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1806	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R200	ORJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R201	ORJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R212	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R213	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R219	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R220	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R223	ORJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10
		R224	ORJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10
		R230	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R231	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R235	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R236	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3000	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3001	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3002	ORJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W
		R3003	ORJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W
		R3074	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3075	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3079	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3080	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3084	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R316	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R321	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R331	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R332	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R333	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R334	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R335	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R346	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R347	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R348	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R385	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R387	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R388	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R389	ORJ222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R392	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R399	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R401	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R403	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R404	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R405	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R406	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R407	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R415	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R416	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R417	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R418	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R421	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R422	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R430	ORJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R431	ORJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R432	ORJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R433	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R434	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R436	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R445	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R452	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R453	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R454	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R455	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R456	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R461	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R505	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R516	ORJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R517	ORJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R6010	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6012	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R6013	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6015	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R6016	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R6017	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6018	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6019	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6057	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6058	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R629	ORJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R635	ORJ0682D677	MCR03EZPJ680 680HM 5% 1/10W
		R638	ORJ0682D677	MCR03EZPJ680 680HM 5% 1/10W
		R640	ORJ0682D677	MCR03EZPJ680 680HM 5% 1/10W
		R641	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R642	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R643	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R646	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R647	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R650	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R654	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R658	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R660	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R664	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R679	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R680	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R703	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R714	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R715	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R716	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R717	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R718	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R719	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R720	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R724	ORJ6200D677	MCR03EZPJ621 620OHM 5% 1/10
		R730	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R737	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R738	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R739	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R745	ORJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R756	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R757	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R758	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R759	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R760	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R761	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R762	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R763	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R764	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R765	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R766	ORJ6200D677	MCR03EZPJ621 620OHM 5% 1/10
		R770	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R781	ORJ5101D677	MCR03EZPJ512 5.1KOHM 5% 1/1
		R782	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R783	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R784	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R785	ORJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R800	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R818	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R825	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R832	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R845	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R847	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R848	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R849	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R850	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R865	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R866	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R867	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R868	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R869	ORJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R874	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R877	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R878	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R896	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R897	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R898	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9001	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9002	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9005	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9006	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9010	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9011	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9012	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R9013	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R9014	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R9017	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9018	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9022	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9035	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9036	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9038	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R9039	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R9049	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R9050	ORJ0102D677	MCR03EZPJ100 100OHM 5% 1/10W
		R9051	ORJ0102D677	MCR03EZPJ100 100OHM 5% 1/10W
		R915	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R916	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R917	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R921	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R925	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R926	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R935	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R938	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R939	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R945	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R946	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R949	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R950	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R951	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R962	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R963	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R964	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R965	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R966	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R969	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R972	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R985	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R988	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R989	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R992	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R993	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R996	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R997	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		AR100	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR101	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR102	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR103	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR104	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR105	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR106	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR107	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR108	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR109	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR110	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR111	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR112	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR113	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR114	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		AR115	ORJ3001D605	MCR03EZPJ302 3KOHM 5% 1/10W
		R1001	ORJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W
		R1002	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R1003	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R1004	ORJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W
		R1005	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1006	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1007	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1008	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R101	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1015	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R1016	ORJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W
		R1017	ORJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W
		R1018	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R1019	ORJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W
		R102	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1024	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1027	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1028	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1033	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W
		R1034	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1035	ORJ0272D677	MCR03EZPJ270 270OHM 5% 1/10W
		R1038	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1039	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1040	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R1041	ORJ2222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R105	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R106	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1104	ORJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W
		R1108	ORJ3303D677	MCR03EZPJ334 330KOHM 5% 1/10W
		R1109	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W
		R111	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
		R1110	ORJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R1113	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W
		R1114	ORJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W



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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R221	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R222	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R225	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R226	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R227	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R228	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R229	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R232	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R233	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R234	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R237	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R238	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R239	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R240	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R241	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R242	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R243	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3004	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R3005	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R302	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R303	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R3070	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3071	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3076	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R3077	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R3078	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R308	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R309	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R310	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R311	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R312	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R313	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R314	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R315	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R317	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R318	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R319	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R320	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R322	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R323	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R324	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R325	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R326	0RJ1602D677	MCR03EZPJ163 16KOHM 5% 1/10
		R327	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R328	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R329	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R330	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R336	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R337	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R339	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R340	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R341	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R342	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R343	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R344	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R345	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R349	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R350	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R351	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R352	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R353	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R354	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R355	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R356	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R357	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R358	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R362	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R363	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R364	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R369	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R370	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R371	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R372	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R373	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R376	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R377	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R380	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R381	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R382	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R383	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R384	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R386	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R394	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R395	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R396	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R398	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R408	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R409	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R423	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R424	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R425	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R426	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R427	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R428	0RJ1820D477	MCR03EZPF1820 1820HM 1% 1/1
		R435	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R438	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R439	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R440	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R441	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R442	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R444	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R451	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R457	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R500	0RJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R501	0RJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R502	0RJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R503	0RJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R504	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10
		R506	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R507	0RJ0272D677	MCR03EZPJ270 270HM 5% 1/10W
		R508	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R509	0RJ7500D677	MCR03EZPJ751 7500HM 5% 1/10
		R510	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R511	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R513	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R514	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R515	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R518	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R519	0RJ2200D677	MCR03EZPJ221 220HM 5% 1/10W
		R6001	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6002	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6003	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6004	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6005	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6006	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6007	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6008	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6011	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6023	0RJ0332D677	MCR03EZPJ330 330HM 5% 1/10W
		R6024	0RJ0332D677	MCR03EZPJ330 330HM 5% 1/10W
		R6029	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R630	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R631	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R632	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R653	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R654	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R655	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R656	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R659	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R609	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R610	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R611	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R612	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R613	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R615	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R616	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R625	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R627	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W



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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R936	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R937	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R940	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R941	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R942	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R943	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R944	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R947	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R948	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R960	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R967	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R968	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R970	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R971	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R973	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R974	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R976	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R977	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R978	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R979	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R980	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R981	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R982	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R983	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R984	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R986	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R987	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R990	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R991	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R994	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R995	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R998	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R999	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1

**OTHERs**

X1000	6212AB2872A	HC49SM 25MHZ 50PPM 20p HC49
X1100	6212AB2015E	HC-49/SM 1MHZ 30PPM 1MHZ 30
X1200	6212AC2001D	HC-49/SM 14MHZ 30PPM 14MHZ
X601	6202TST001A	SX-1 14.31818MHZ 30PPM 14.3
X701	6212AB2873A	HC-49/SM 24.576MHZ 30PPM 24
X702	6212AB2873A	HC-49/SM 24.576MHZ 30PPM 24
D1000	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1301	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1303	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1601	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1602	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1603	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D1604	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D300	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
D301	0DL23309AC	SAM2333 RED/Y-GREEN 2.7V 2.
X200	6204B48360A	SCO-103-33.3300MHZ 33.33MHZ
X3070	6204B47985P	BMS-873R 25MHZ 30PPM 3.3V 0
X3071	6204B47985P	BMS-873R 25MHZ 30PPM 3.3V 0
X500	6204B62705A	VCXO 27MHZ 100PPM 3.3V 0.00
IC1604	0IPRPN054A	LM75CIMX-3 3TO5.5V SOP R/TP
P1613	6630CE00168	10003526-050CA PCMCIA 68P A
SW301	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
TU1302	6700NF0024A	ENG36A54GF NTSC ---- HOR
TU1300	6700AB0001A	ATSC ----- HORIZONTAL
VR601	6102W5V016A	AVRL161A1R1NT 10V - 1.1p 1.
VR602	6102W5V016A	AVRL161A1R1NT 10V - 1.1p 1.
VR603	6102W5V016A	AVRL161A1R1NT 10V - 1.1p 1.
VR604	6102W5V016A	AVRL161A1R1NT 10V - 1.1p 1.

**ANALOG BOARD****CAPACITOR**

C101	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
C105	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
C106	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
C107	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
C109	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2u 20% 5

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C110	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
		C112	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2u 20% 5
		C115	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
		C116	0CE227WF6DC	MVK8.0TP16VC220M 220u 20% 1
		C117	0CE227WF6DC	MVK8.0TP16VC220M 220u 20% 1
		C121	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2u 20% 5
		C122	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2u 20% 5
		C126	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
		C127	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
		C203	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
		C208	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3u 20% 5
		C220	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
		C232	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3u 20% 5
		C234	0CE107WF6DC	MVK6.3TP16VC100M 100u 20% 1
		C235	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C237	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C238	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
		C245	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3u 20% 5
		C247	0CE226WF6DC	MVK5.0TP16VC22M 22u 20% 16V
		C263	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3u 20% 5
		C265	0CE107WF6DC	MVK6.3TP16VC100M 100u 20% 1
		C266	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C271	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C272	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7u 20% 5
		C273	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7u 20% 5
		C302	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C305	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C311	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C313	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C314	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C319	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C321	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C327	0CE107WF6DC	MVK6.3TP16VC100M 100u 20% 1
		C328	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C332	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C335	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C344	0CE107WF6DC	MVK6.3TP16VC100M 100u 20% 1
		C345	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C346	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C347	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C354	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C355	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C356	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C359	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C363	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C367	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C369	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C373	0CE227SF6DC	MVG6.3TP16VC220M 220u 20% 1
		C405	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C408	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C412	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C415	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C428	0CE106SK6DC	VMV106M050S0ANC010 10u 20%
		C429	0CE106SK6DC	VMV106M050S0ANC010 10u 20%
		C452	0CE337WJ6D8	MVK12.5TP35VC330M 330u 20%
		C453	0CE337WJ6D8	MVK12.5TP35VC330M 330u 20%
		C454	0CE337WJ6D8	MVK12.5TP35VC330M 330u 20%
		C455	0CE337WJ6D8	MVK12.5TP35VC330M 330u 20%
		C501	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C512	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C527	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C529	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C532	0CE105WK6DC	MVK4.0TP50VC1M 1u 20% 50V 5
		C536	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C540	0CE107WF6DC	MVK6.3TP16VC100M 100u 20% 1
		C543	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C601	0CE476WF6DC	MVK6.3TP16VC47M 47u 20% 16V
		C623	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C624	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C625	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C626	0CE476WH6DC	MVK8.0TP25VC47M 47u 20% 25V
		C627	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C630	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C632	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C634	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C635	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C636	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C637	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C638	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C639	0CE106WFKDC	MVK4.0TP16VC10M 10u 20% 16V
		C102	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C103	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C104	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C111	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C113	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C114	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C118	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C119	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C123	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C124	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C125	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C132	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C133	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C134	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C135	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C204	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C205	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C206	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C207	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C210	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C211	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C212	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C213	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C214	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C215	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C216	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C217	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C218	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C219	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C221	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C222	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C223	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C224	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C225	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C226	OCK474CH94A	0603F474Z250CT 470n -2TO+8
		C227	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C228	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C229	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C230	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C231	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C233	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C241	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C242	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C243	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C244	0CC560CK41A	C1608C0G1H560JT 56p 5% 50V
		C246	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C249	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C251	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C252	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C253	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C254	OCK103CK56A	0603B103K500CT 10n 10% 50V
		C255	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C256	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C257	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C258	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C259	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C260	OCK222CK56A	0603B222K500CT 2.2n 10% 50V
		C261	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C262	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C264	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C274	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C301	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C303	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C304	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C306	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C307	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C315	OCK104CK56A	0603B104K500CT 100n 10% 50V
		C316	0CK334CF94A	C1608Y5V1C334ZT 330n -2TO+

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C317	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C322	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C323	0CC102CK41A	C1608C0G1H102JT 1n 5% 50V C
		C325	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C326	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C329	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C337	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C338	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C339	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C340	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C341	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C342	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C343	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C348	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C349	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C350	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C351	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C352	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C353	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C357	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C358	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C360	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C361	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C362	0CC102CK41A	C1608C0G1H102JT 1n 5% 50V C
		C364	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C402	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C403	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C404	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C406	0CC102CK41A	C1608C0G1H102JT 1n 5% 50V C
		C407	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C409	0CK105CF94A	0603F105Z160CT 1u -2TO+80%
		C410	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C411	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C413	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C414	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C416	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C418	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C419	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C421	0CK105CF94A	0603F105Z160CT 1u -2TO+80%
		C423	0CK105CF94A	0603F105Z160CT 1u -2TO+80%
		C426	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C431	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C434	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C436	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C438	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C439	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C444	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C445	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C448	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C450	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C460	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C461	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C462	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C463	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C465	0CK474EK66A	C3216X7R1H474MT 470n 20% 50
		C467	0CK474EK66A	C3216X7R1H474MT 470n 20% 50
		C468	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C470	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C473	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C474	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C502	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C503	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C504	0CK472CK56A	0603B472K500CT 4.7n 10% 50V
		C509	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C510	0CK105CF94A	0603F105Z160CT 1u -2TO+80%
		C511	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C515	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C521	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C528	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C531	0CK104CF56A	0603B104K160CT 100n 10% 16V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C538	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C539	0CK104CF56A	0603B104K160CT 100n 10% 16V
		C541	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C603	0CC101CK41A	C1608COG1H101JT 100p 5% 50V
		C604	0CC101CK41A	C1608C0G1H101JT 100p 5% 50V
		C607	0CC220CK41A	C1608COG1H220JT 22p 5% 50V
		C608	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C611	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C612	0CC471CK41A	C1608COG1H471JT 470p 5% 50V
		C614	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C615	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C616	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C628	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C631	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C650	0CC471CK41A	C1608C0G1H471JT 470p 5% 50V
		C108	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C120	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C201	0CC020CK01A	C1608C0G1H020CT 2p 0.25PF 5
		C202	0CC020CK01A	C1608C0G1H020CT 2p 0.25PF 5
		C209	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C236	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C239	0CC020CK01A	C1608C0G1H020CT 2p 0.25PF 5
		C240	0CC020CK01A	C1608C0G1H020CT 2p 0.25PF 5
		C248	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C250	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C267	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C268	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C269	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C270	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C312	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C330	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C331	0CK103CK56A	0603B103K500CT 10n 10% 50V
		C333	0CK104CK56A	0603B104K500CT 10n 10% 50V
		C417	0CC102CK41A	C1608C0G1H102JT 1n 5% 50V C
		C422	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C446	0CK333CK56A	C1608X7R1H333KT 33n 10% 50V
		C447	0CK333CK56A	C1608X7R1H333KT 33n 10% 50V
		C449	0CK333CK56A	C1608X7R1H333KT 33n 10% 50V
		C451	0CK333CK56A	C1608X7R1H333KT 33n 10% 50V
		C505	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C506	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C507	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C508	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C513	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C514	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C516	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C517	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C518	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C519	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C520	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C522	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C523	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C524	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C525	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C526	0CK474CH94A	0603F474Z250CT 470n -2TO+8
		C530	0CK104CF56A	0603B104K160CT 100n 10% 16V
		C534	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C535	0CC220CK41A	C1608C0G1H220JT 22p 5% 50V
		C537	0CK104CF56A	0603B104K160CT 100n 10% 16V
		C542	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C544	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C602	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C629	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C633	0CK104CK56A	0603B104K500CT 100n 10% 50V
		C309	OCE686SJ6D8	"68UF MVG,MC,VC 35V 20% SMD"
		C320	OCE686SJ6D8	"68UF MVG,MC,VC 35V 20% SMD"
		C371	OCE686SJ6D8	"68UF MVG,MC,VC 35V 20% SMD"
		C372	OCE686SJ6D8	"68UF MVG,MC,VC 35V 20% SMD"
DIODEs				
		D101	0DSIH00028A	MC2838-T112-1 1200MV 75V 30
		D102	0DSIH00028A	MC2838-T112-1 1200MV 75V 30
		ZD109	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
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		ZD201	0DZRM00248A	RLZ8.2B 8200MV 7.78TO8.19V
		ZD202	0DZRM00248A	RLZ8.2B 8200MV 7.78TO8.19V
		ZD601	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD602	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD603	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD604	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD605	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD618	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD619	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD620	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD606	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD621	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
		ZD622	0DZ560009DA	UDZS5.6B 5600MV 5.49TO5.73V
IC				
		IC101	0ISO206900A	CXA2069Q 8.5TO9.5V - - 1300
		IC401	0ILNR00015A	NSP-2100A 1.8VTO3.3V - -
		IC403	0IMCRTI028C	TAS5122DCAR 3TO3.6V_16TO25.
		IC505	0ISTL00024A	MC14053BDR2G 3TO18V 0.02mA
		IC502	0IMCRAL006A	AT24C16AN-10SI-2.7 16KBIT 2
		IC601	0IMMRAL014B	AT24C02N-10SI-2.7 2KBIT 256
		IC302	0IMCRSJ001A	SC1565IST-1.8 2.2TO5.5V 1.8
		IC304	0IMCRRH001A	BA033FP-E2 4.3TO25V 3.3V 1W
		IC504	0IMCR02227A	MTV416GMF 3TO3.6V 24mA 25MH
		IC201	0IPRP00670A	MSP4458G-C4 7.6TO8.7V_4.75T
		IC202	0IMCRMN028C	MSP4450K-QA-D6 7.6TO8.7V_4.
		IC602	0IPH740800H	74F08D 4.5TO5.5V 12.9mA AND
		IC501	0IMCRSO025A	CXA2181Q 4.75TO5.25 - 1645M
		IC503	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC301	0IMCRSH001A	PQ05DZ1U 6TO16V 5W D2PAK
		IC303	0IMCRFA010A	KA7809R 11.5TO24V 9V 150W D
COIL & CORE & INDUCTOR				
		L101	OLC200005D	FI-B2012-332KJT 3.3UH 10% -
		L102	OLC200005D	FI-B2012-332KJT 3.3UH 10% -
		L103	OLC200005D	FI-B2012-332KJT 3.3UH 10% -
		L104	OLC200005D	FI-B2012-332KJT 3.3UH 10% -
		L201	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L202	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L203	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L204	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L205	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L206	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L501	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L502	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L302	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L303	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L304	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L306	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L408	61409B0008A	DBF-1310S DONGBANG 10UH 15%
		L409	61409B0008A	DBF-1310S DONGBANG 10UH 15%
		L410	61409B0008A	DBF-1310S DONGBANG 10UH 15%
		L411	61409B0008A	DBF-1310S DONGBANG 10UH 15%
		L301	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L305	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L311	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L312	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L313	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L401	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L402	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L403	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L404	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L417	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L418	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L419	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L420	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L601	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L604	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L613	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L616	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L308	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L309	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L310	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L315	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L316	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L602	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X

**TRANSISTOR**

		Q301	OTFVI80067A	SI3865BDV N-CHANNEL MOSFET
		Q303	OTFVI80067A	SI3865BDV N-CHANNEL MOSFET
		Q605	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q606	OTR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q107	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q108	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q110	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q112	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q201	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q203	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q205	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q206	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q207	OTR102009AM	KRA102S PNP -30V -50V -0.
		Q501	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q504	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q612	OTRIH80003A	RT1N141C-T112-1 NPN 10V 50V
		Q102	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q103	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q105	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q106	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q109	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q202	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q204	OTRIH80002A	2SA1530A-T112-1R PNP -6V -6
		Q502	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q503	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q517	OTR102009AM	KRA102S PNP -30V -50V -0.
		Q613	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q614	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q615	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q616	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q617	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q618	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q619	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q620	OTRIY80001A	2SC3052 NPN 6V 50V 200M
		Q621	OTRIY80001A	2SC3052 NPN 6V 50V 200M

**RESISTORS**

		R101	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R103	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R112	0RJ752D677	MCR03EZPJ750 750OHM 5% 1/10W
		R113	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W
		R115	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R116	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W
		R117	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R118	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R119	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R120	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W
		R121	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R122	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R123	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R124	0RJ5100D677	MCR03EZPJ511 510OHM 5% 1/10
		R125	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R126	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R127	0RJ5100D677	MCR03EZPJ511 510OHM 5% 1/10
		R129	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R131	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R132	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R133	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R134	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R135	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R136	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R141	0RJ0682D677	MCR03EZPJ680 680OHM 5% 1/10W
		R144	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R146	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R149	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R150	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W
		R155	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R157	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R158	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R159	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R160	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R161	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R162	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R163	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R164	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R202	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W
		R203	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W
		R204	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R210	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R212	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R215	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R216	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R217	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R218	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R219	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R220	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R221	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R226	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R227	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R230	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R231	0RJ0392D677	MCR03EZPJ390 390OHM 5% 1/10W
		R232	0RJ0392D677	MCR03EZPJ390 390OHM 5% 1/10W
		R247	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R260	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R261	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R266	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R267	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R268	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R269	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R270	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R271	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R272	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R273	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R274	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R275	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R276	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R304	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10
		R308	0RJ5600D677	MCR03EZPJ561 5600OHM 5% 1/10
		R310	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R311	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10
		R312	0RJ5600D677	MCR03EZPJ561 5600OHM 5% 1/10
		R401	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R402	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R403	0RJ1020D677	MCR03EZPJ100 10OHM 5% 1/10W
		R407	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R408	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R439	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R441	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R443	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R444	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R448	0RJ0331D677	MCR03EZPJ3R3 3300MOHM 5% 1/
		R450	0RJ0331D677	MCR03EZPJ3R3 3300MOHM 5% 1/
		R456	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R458	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R459	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R464	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R465	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R466	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R467	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R469	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R472	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R473	0RJ1011D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R501	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R506	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5106	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R5111	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5113	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5114	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5118	0RJ6802D677	MCR03EZPJ683 68KOHM 5% 1/10

DATE: 2006. 02. 20.

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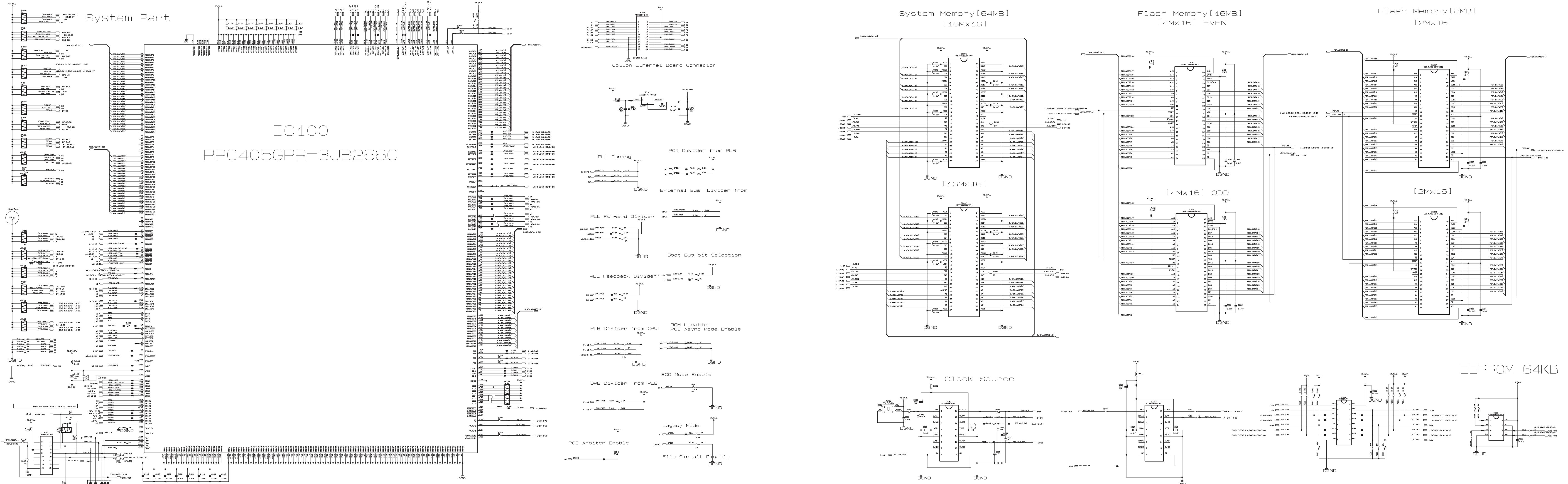
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R512	ORJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R5120	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R514	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R5140	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5155	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5166	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5167	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5168	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R517	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R5171	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R544	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R563	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R569	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R570	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R580	ORJ2002D677	MCR03EZPJ2002 20KOHM 5% 1/1
		R583	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R585	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R6000	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R6004	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R6005	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R6006	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R6007	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R6008	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R601	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R6016	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R6017	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R6018	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R602	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R607	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R612	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R613	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R614	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R617	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R618	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R627	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R628	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R629	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R630	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R631	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R632	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R633	ORJ102D677	MCR03EZPJ100 100HM 5% 1/10W
		R634	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R635	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R636	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R645	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R651	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R652	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R653	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R654	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R667	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R668	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R669	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R670	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R671	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R672	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R673	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R674	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R678	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R679	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R680	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R684	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R685	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R686	ORJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R687	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R688	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R689	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R690	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R691	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R692	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R695	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R696	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R697	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R698	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R699	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R102	ORJ5100D677	MCR03EZPJ511 510OHM 5% 1/10
		R104	ORJ5100D677	MCR03EZPJ511 510OHM 5% 1/10
		R105	ORJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R106	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R107	ORJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R108	ORJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R109	ORJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R111	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R114	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R128	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R130	ORJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R137	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R138	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R139	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R140	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R142	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R143	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R147	ORJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R148	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R151	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R152	ORJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R153	ORJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R154	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R207	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R208	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R209	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R211	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R213	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R222	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R223	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R224	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R228	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R233	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R234	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R235	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R236	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R237	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R239	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R240	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R241	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R242	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
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		R244	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R245	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R248	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R249	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R250	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R251	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
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		R253	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R254	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R255	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R256	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R257	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R258	ORJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R259	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R262	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R263	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R264	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R265	ORJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R303	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R306	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R404	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R406	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R409	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R410	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R411	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R412	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R413	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
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		R415	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R417	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
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		R423	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10

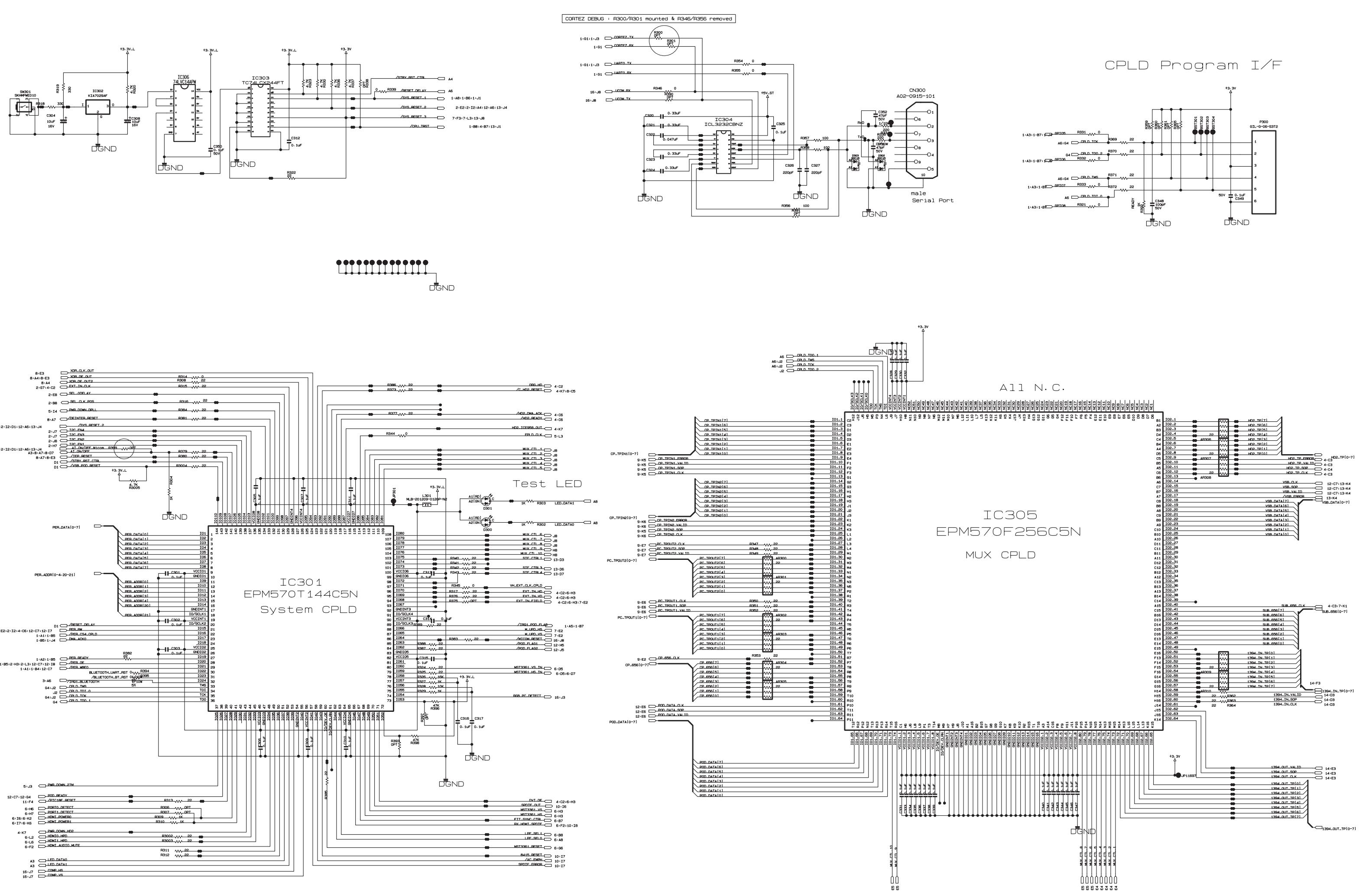
DATE: 2006. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
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		R426	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R427	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R438	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R453	ORJ0101D677	MCR03EZPJ1R0 10HM 5% 1/10W
		R454	ORJ0101D677	MCR03EZPJ1R0 10HM 5% 1/10W
		R455	ORJ0101D677	MCR03EZPJ1R0 10HM 5% 1/10W
		R457	ORJ0101D677	MCR03EZPJ1R0 10HM 5% 1/10W
		R508	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R510	ORJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R5101	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5103	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R5105	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5107	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5108	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5109	ORJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R5110	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5112	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R513	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R5137	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R5139	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R515	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R5153	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5154	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5156	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5157	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5158	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5159	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R516	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R5160	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5161	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5162	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5163	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5164	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R5165	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R520	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R521	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R524	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R527	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R529	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R530	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R540	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R541	ORJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R542	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R546	ORJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R550	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R551	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R552	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R555	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R556	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R557	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R558	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R559	ORJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R561	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R562	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R566	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R567	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R573	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R574	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R575	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R576	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R577	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R578	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R579	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R581	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R584	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R587	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R589	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R591	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R592	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R593	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R594	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R595	ORJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R596	ORJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10

DATE: 2006. 02. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R597	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R598	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R599	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R6009	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R6019	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R6020	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R6021	ORJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R6025	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6027	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R606	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R608	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R609	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R610	ORJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R611	ORJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R615	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R616	ORJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R663	ORJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R681	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R682	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R683	ORJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R693	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R694	ORJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R505	ORN1002F409	RN-96T1F10K0 10KOHM 1% 1/6W
OTHERs				
		X501	6212AB3004D	CSALF2M69G4ZF01-A3 2.696MHZ
		TU2	6634D00016A	TASA-H401F LG INNOTEK 75 OH
		X201	6202VDT002H	SX-1 18.432MHZ 30PPM 18.432
		X202	6202VDT002H	SX-1 18.432MHZ 30PPM 18.432
		X502	6212AB2015A	HC-49/SM4H 4MHZ 30PPM 4MHZ
		X503	6202TST001E	SX-1 24MHZ 30PPM 24MHZ 30PP
CONTROL BOARD				
		SW101	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW102	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW103	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW104	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW105	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW106	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW107	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		SW108	140-313B	KPT-1115AM 1C1P 12VDC 0.05A
		R101	ORH2702D622	MCR10EZHZ73 27KOHM 5% 1/8W
		R102	ORH2702D622	MCR10EZHZ73 27KOHM 5% 1/8W
		R103	ORH8201D622	MCR10EZHZ82 8.2KOHM 5% 1/8
		R104	ORH8201D622	MCR10EZHZ82 8.2KOHM 5% 1/8
		R105	ORH2401D622	MCR10EZHZ24 2.4KOHM 5% 1/8
		R106	ORH2401D622	MCR10EZHZ24 2.4KOHM 5% 1/8
		R107	ORH9100D622	MCR10EZHZ911 910OHM 5% 1/8W
		R108	ORH9100D622	MCR10EZHZ911 910OHM 5% 1/8W
		ZD101	UDZS5.1B 5100MV 4.98T05.2V	UDZS5.1B 5100MV 4.98T05.2V
		ZD102	UDZS5.1B 5100MV 4.98T05.2V	UDZS5.1B 5100MV 4.98T05.2V
INDEX BOARD				
		C101	0CH3104K566	0805B104K500CT 100n 10% 50V
		C107	0CH3104K566	0805B104K500CT 100n 10% 50V
		C110	0CH3104K566	0805B104K500CT 100n 10% 50V
		C112	0CH3104K566	0805B104K500CT 100n 10% 50V
		L101	OLC2232101A	FI-D3216-223KJT 22UH 10% -
		L103	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L104	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		Q101	0TR387500AA	2SC38755 NPN 5V 60V 50V 150
		R101	ORH1101D622	MCR10EZHZ112 1.1KOHM 5% 1/8
		R102	ORH5100D622	MCR10EZHZ511 510OHM 5% 1/8W
		R103	ORH1001D622	MCR10EZHZ102 1KOHM 5% 1/8W
		R104	ORH1001D622	MCR10EZHZ102 1KOHM 5% 1/8W
		R136	ORH0000D622	MCR10EZHZ000 0OHM 5% 1/8W 2
		R139	ORH4701D622	MCR10EZHZ472 4.7KOHM 5% 1/8
		R141	ORH1002D622	MCR10EZHZ103 10KOHM 5% 1/8W
		R142	ORH1002D622	MCR10EZHZ103 10KOHM 5% 1/8W
		D101	DLAU0410AA	SAW5670 ROUND 5mM AMBER/WHI
		D102	6301900003A	LED INDEX WHITE 3V 20MA 80M

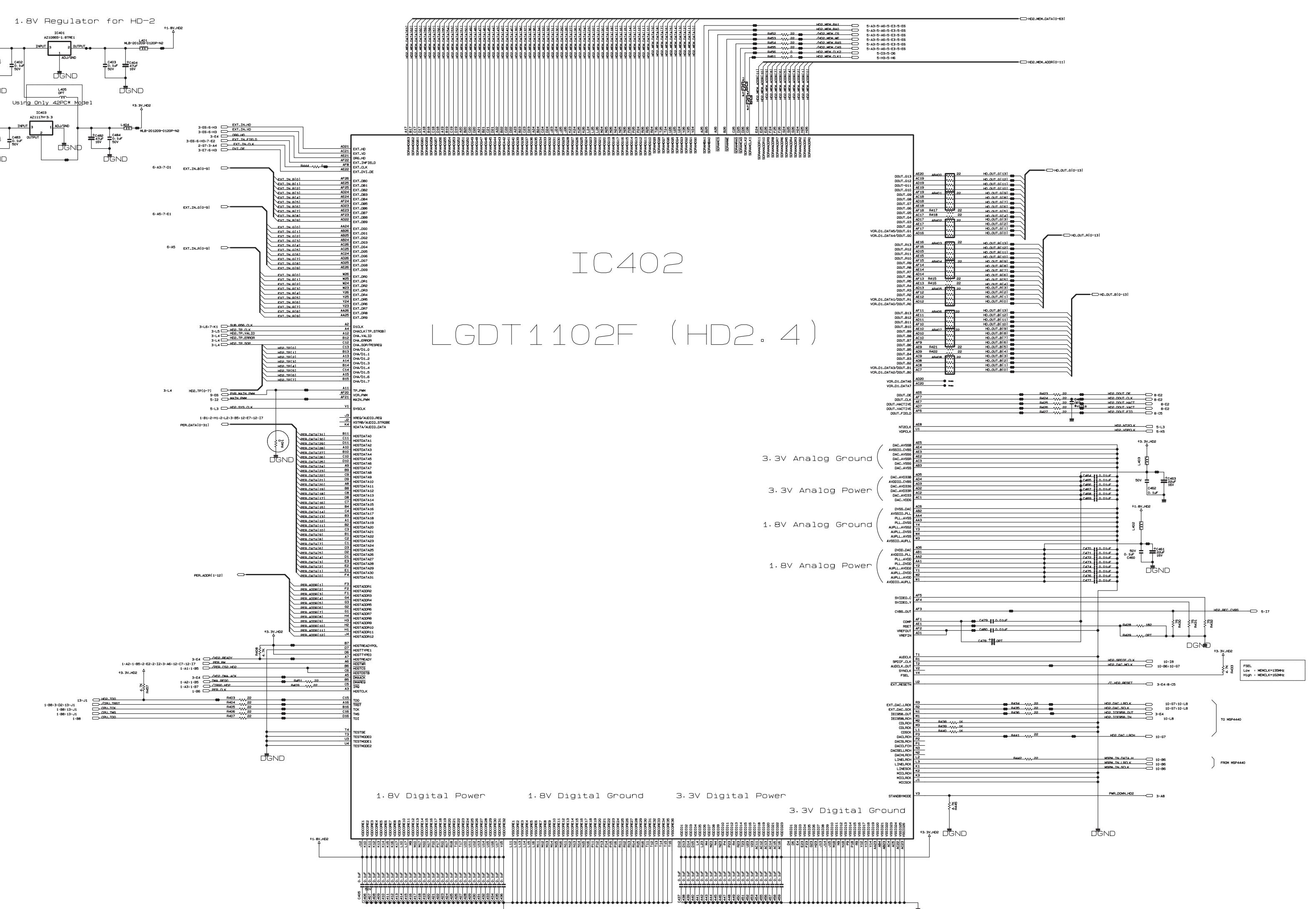
DATE: 2006.02.20.				
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		IC101	6712000011B	KSM-2013TE2A 4.5TO5.5V 1.3M
		C102	OCE107SF6DC	VMV107M016S0ANE010 100u 20%
		C103	OCH6330K416	C2012C0G1H330JT 33p 5% 50V
		C104	OCH3103K516	C2012Y5P1H103KT 10n 10% 50V
		C105	OCH3104K566	0805B104K500CT 100n 10% 50V
		C106	OCE106SH6DC	VMV106M025S0ANB010 10u 20%
		C108	OCE106SH6DC	VMV106M025S0ANB010 10u 20%
		C109	OCE106SH6DC	VMV106M025S0ANB010 10u 20%
		C111	OCE106SH6DC	VMV106M025S0ANB010 10u 20%
		C115	OCE107SF6DC	VMV107M016S0ANE010 100u 20%
		IC102	0IMI623200B	"M62320P,FP 4.5TO5.5V 0.05mA"
		IC103	0IMCRFA015A	KA7805R 7TO20V 5V 150W DPAK
		L105	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		Q102	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q103	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q104	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q105	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q106	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q107	OTR387500AA	2SC3875S NPN 5V 60V 150
		Q108	OTR387500AA	2SC3875S NPN 5V 60V 150
		R105	ORH1000D622	MCR10EZHZJ101 1000HM 5% 1/8W
		R106	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R107	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R108	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R109	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R110	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R111	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R112	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R115	ORH0222D622	MCR10EZHZJ220 220OHM 5% 1/8W
		R116	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R117	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R118	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R119	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R120	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R121	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R122	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R123	ORH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2
		R124	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R125	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R126	ORH1001D622	MCR10EZHZJ102 1KOHM 5% 1/8W
		R127	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R128	ORH4701D622	MCR10EZHZJ472 4.7KOHM 5% 1/8
		R140	ORH1002D622	MCR10EZHZJ103 10KOHM 5% 1/8W
<b>SIDE BOARD</b>				
		C100	OCH4101K416	C2012C0G1H101JT 100p 5% 50V
		C101	OCH4101K416	C2012C0G1H101JT 100p 5% 50V
		R105	ORH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2
		R106	ORH4700D622	MCR10EZHZJ471 4700HM 5% 1/8W
		R107	ORH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2
		R108	ORH4700D622	MCR10EZHZJ471 4700HM 5% 1/8W
		R109	ORH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2
		R110	ORH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2



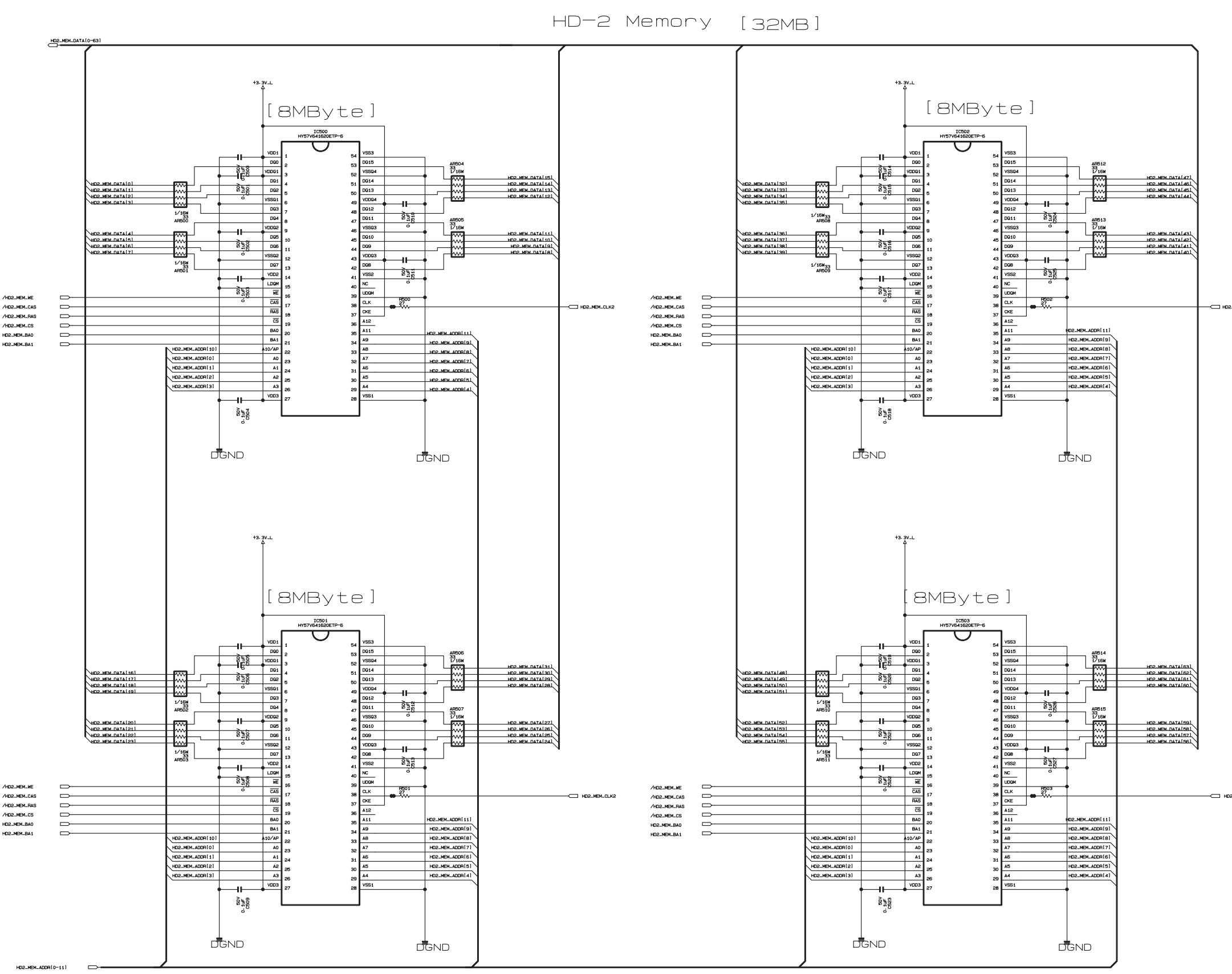
THE  $\Delta$  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. IT IS ESSENTIAL THAT ONLY MANUFACTURED SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  $\Delta$  SYMBOL MARK OF THE SCHEMATIC.



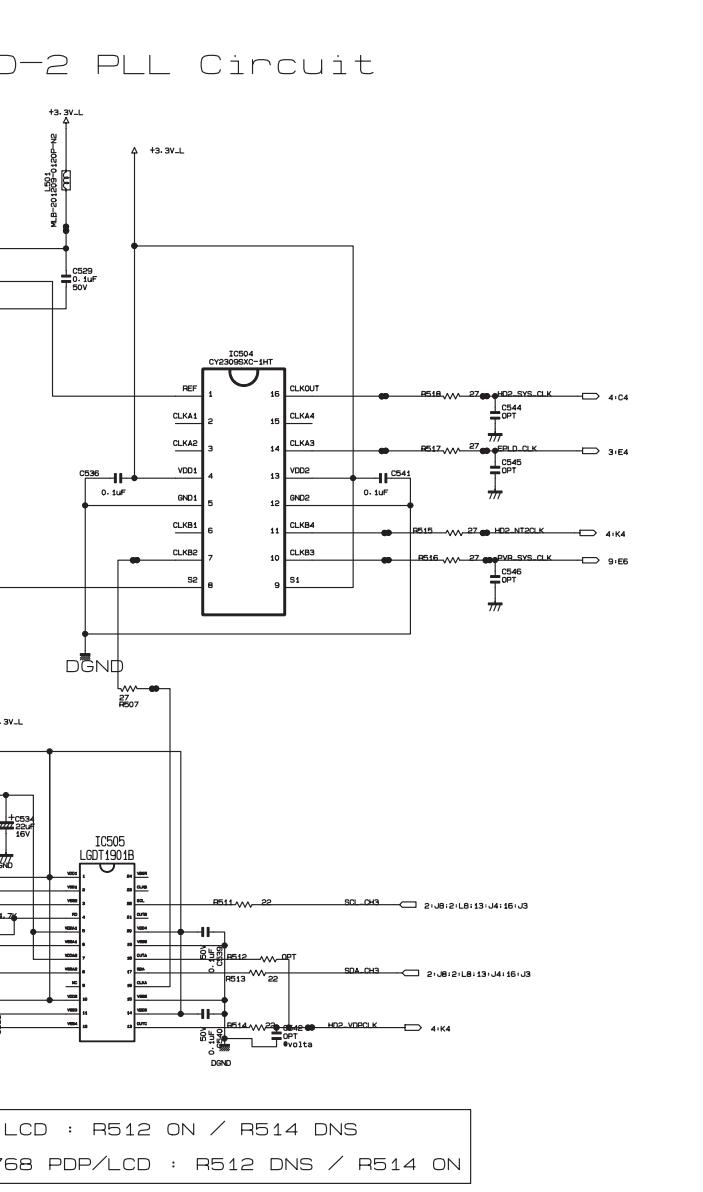
THE  $\Delta$  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. IT IS ESSENTIAL THAT ONLY MANUFACTURED SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  $\Delta$  SYMBOL MARK OF THE SCHEMATIC.



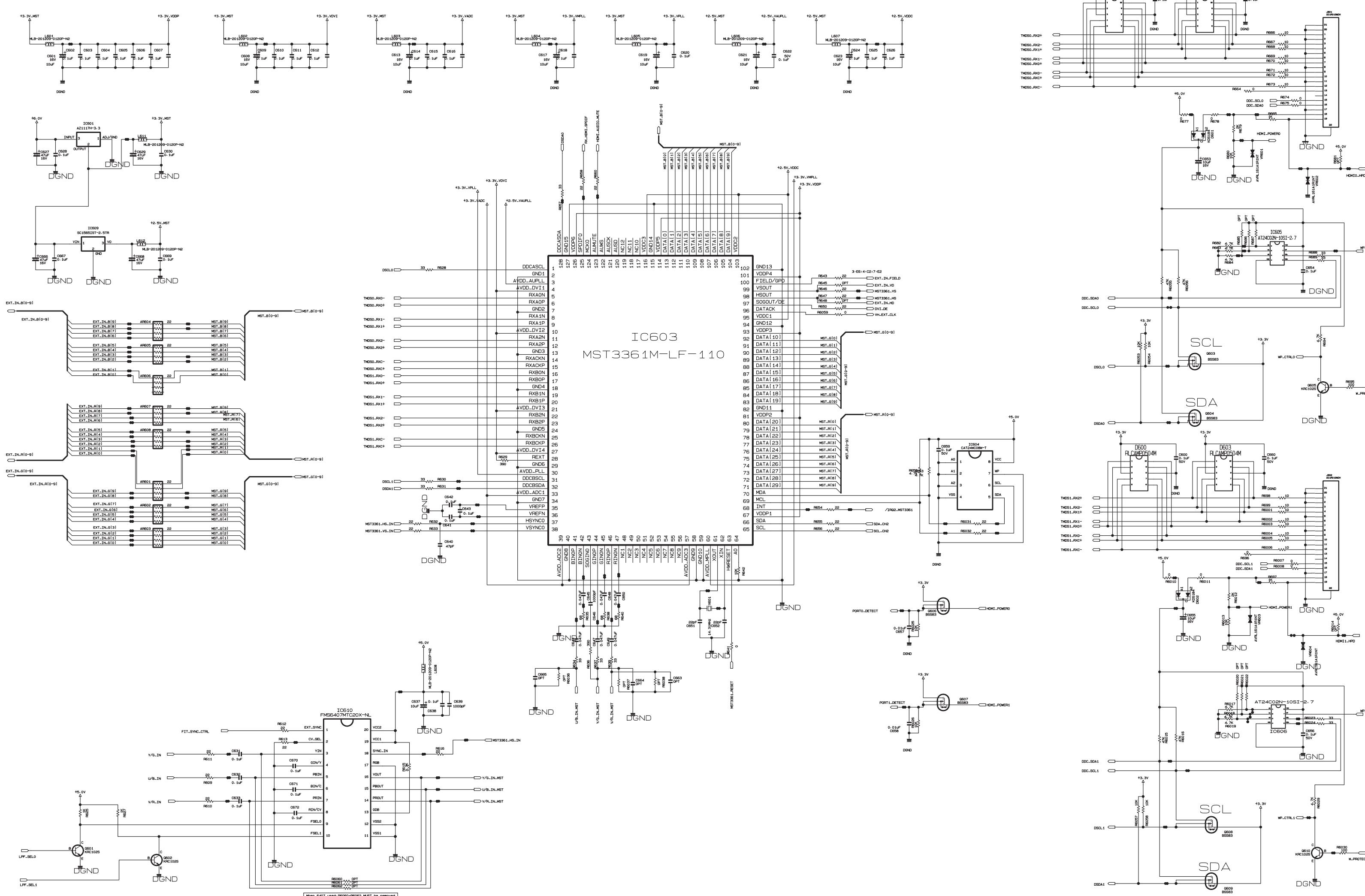
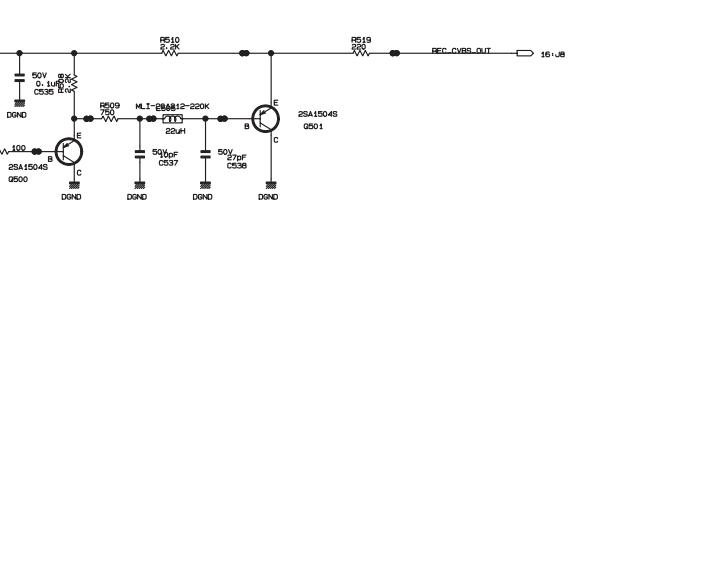
THE  $\Delta$  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. IT IS ESSENTIAL THAT ONLY MANUFACTURED SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  $\Delta$  SYMBOL MARK OF THE SCHEMATIC.



THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIFIC FEATURES IMPORTANT FOR PROTECTION FROM RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED. THE EQUIVALENT PART NUMBER IS LISTED IN THE EQUIVALENT PARTS LIST FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

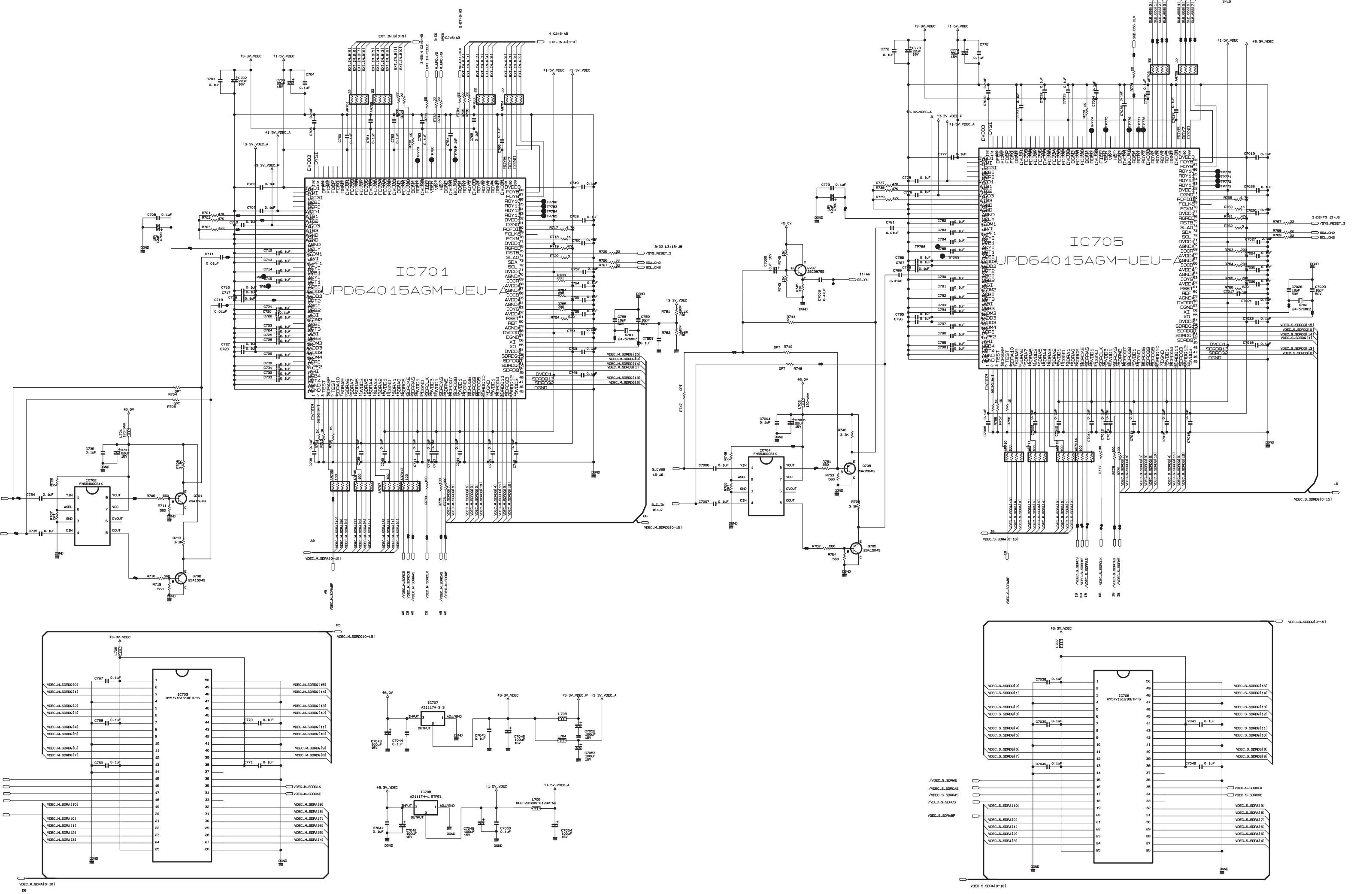


#### VCR\_REC\_OUTPUT

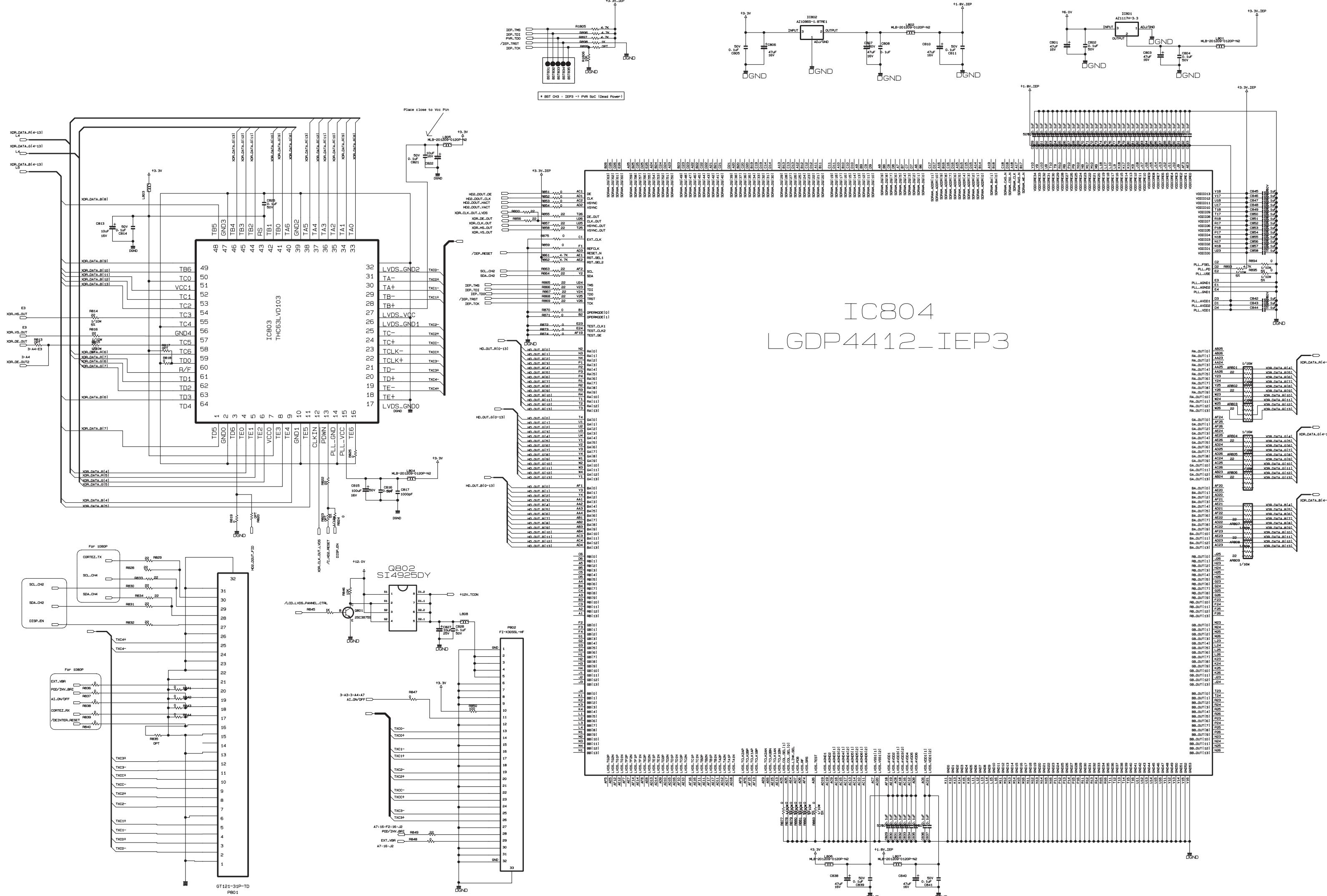


THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIFIC FEATURES IMPORTANT FOR PROTECTION FROM RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED. THE EQUIVALENT PART NUMBER IS LISTED IN THE EQUIVALENT PARTS LIST FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

#### MAIN VIDEO DECODER

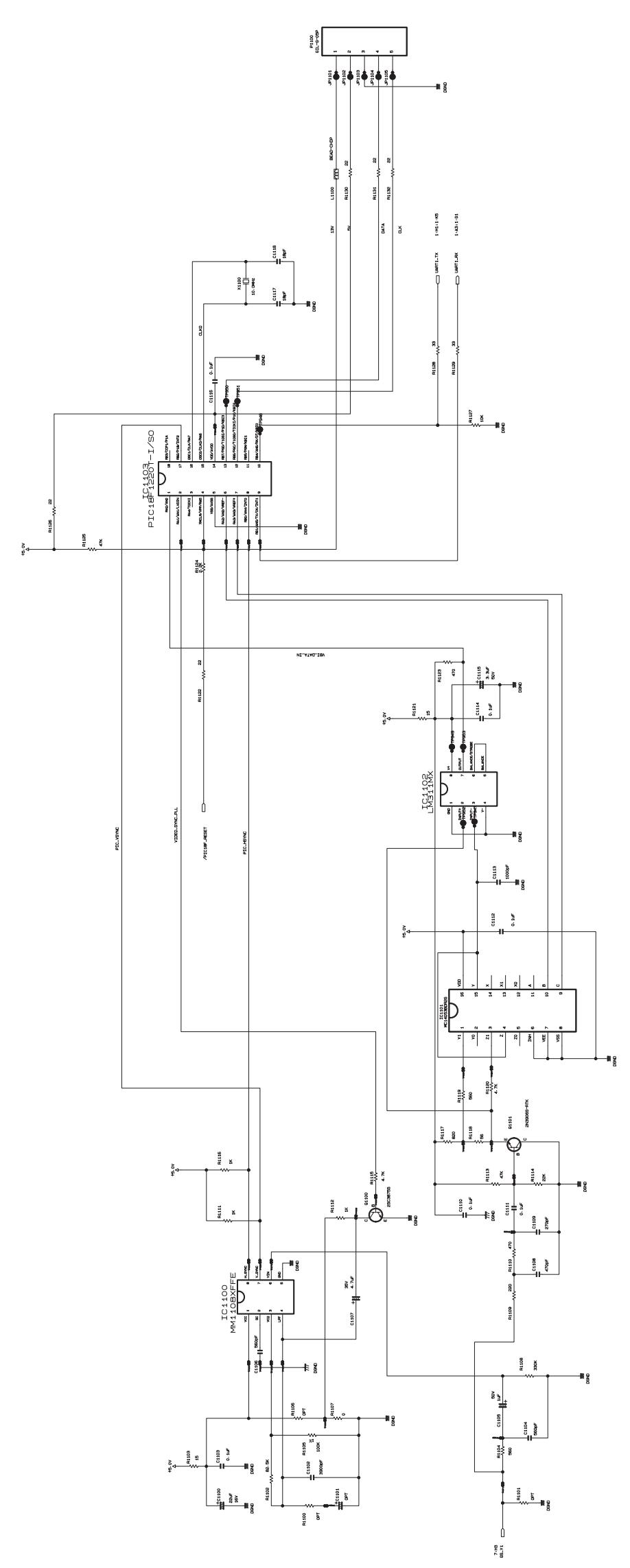


THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIFIC FEATURES IMPORTANT FOR PROTECTION FROM RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED. THE EQUIVALENT PART NUMBER IS LISTED IN THE EQUIVALENT PARTS LIST FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

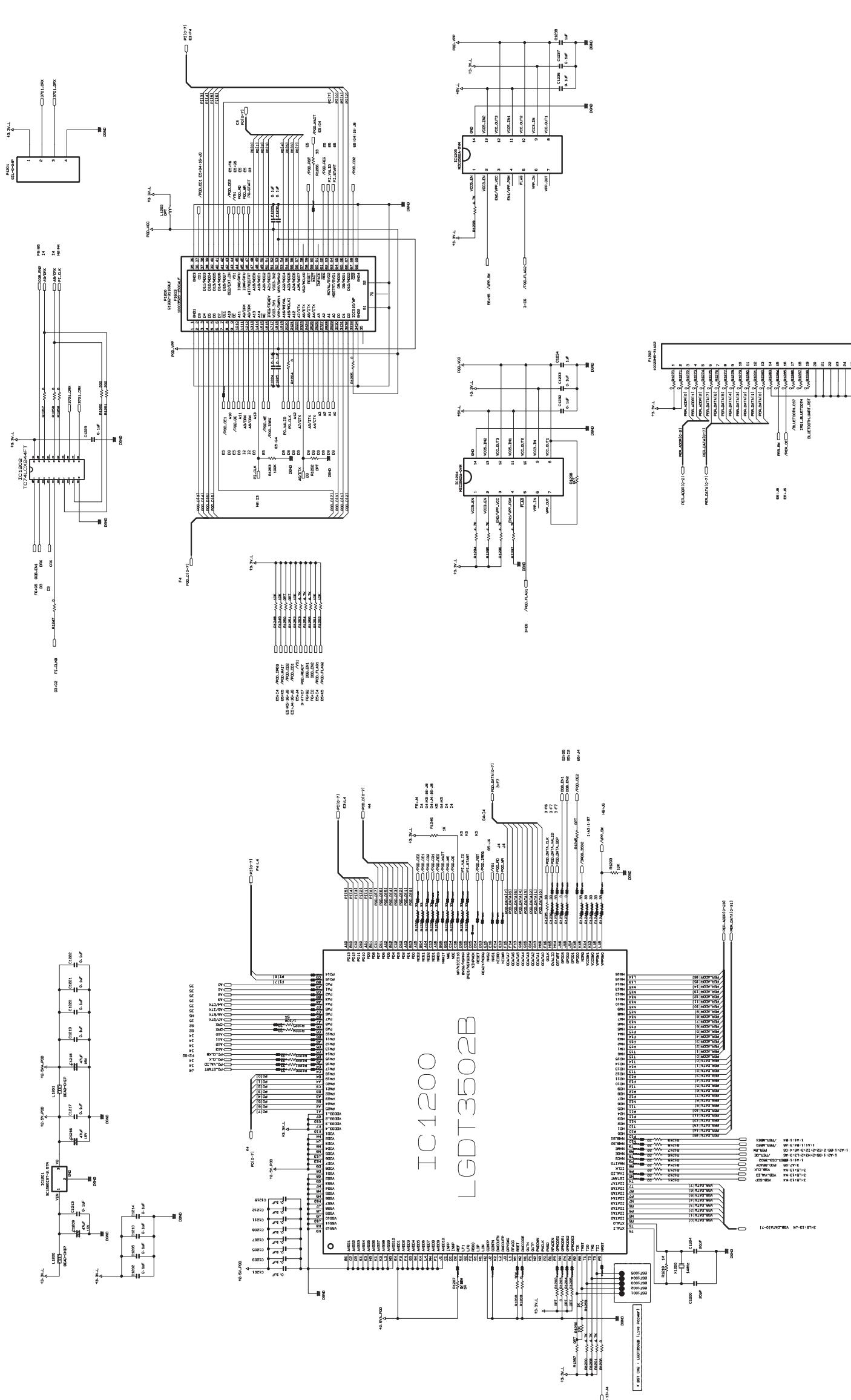


THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIFIC FEATURES IMPORTANT FOR PROTECTION FROM RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED. THE EQUIVALENT PART NUMBER IS LISTED IN THE EQUIVALENT PARTS LIST FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

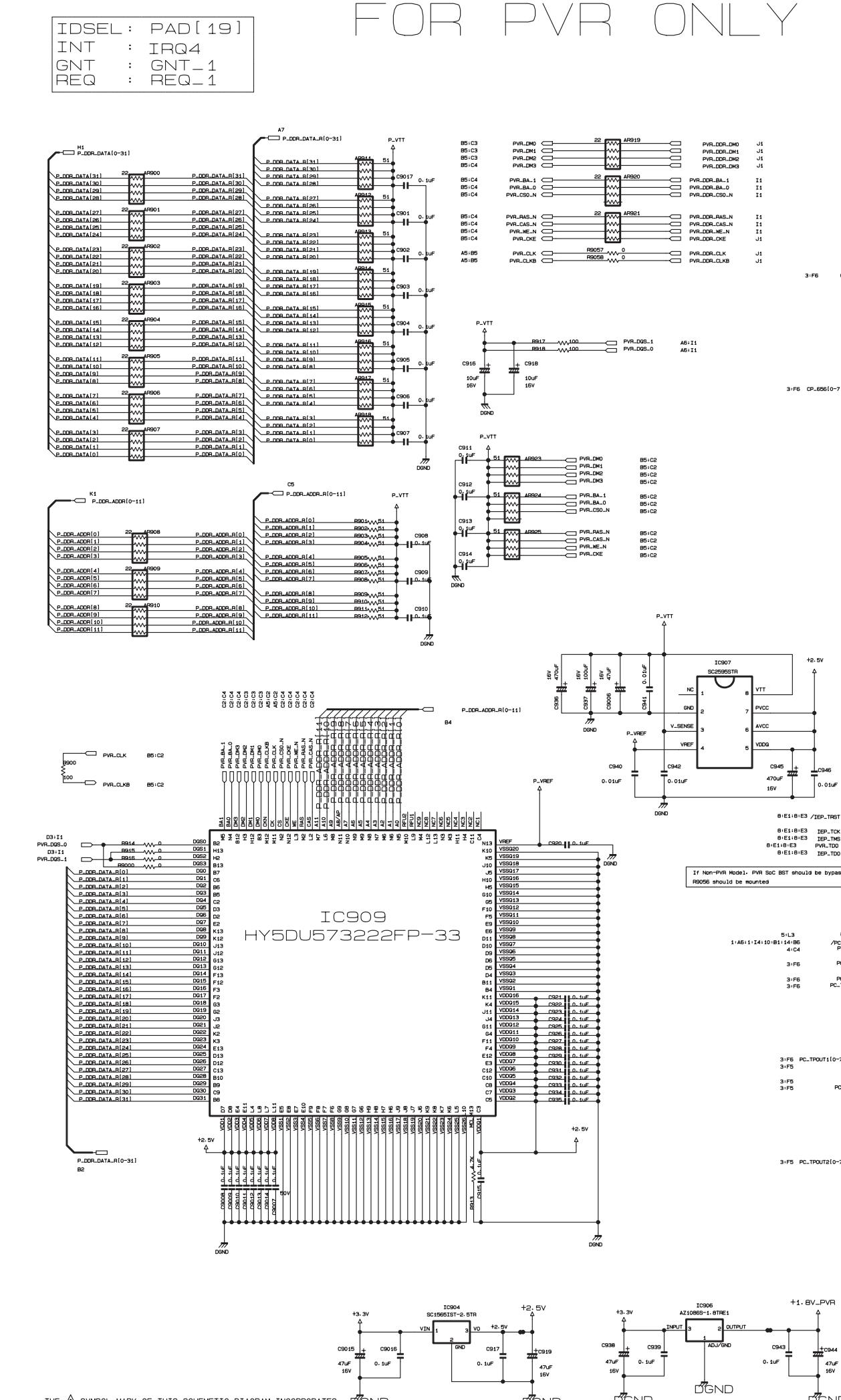
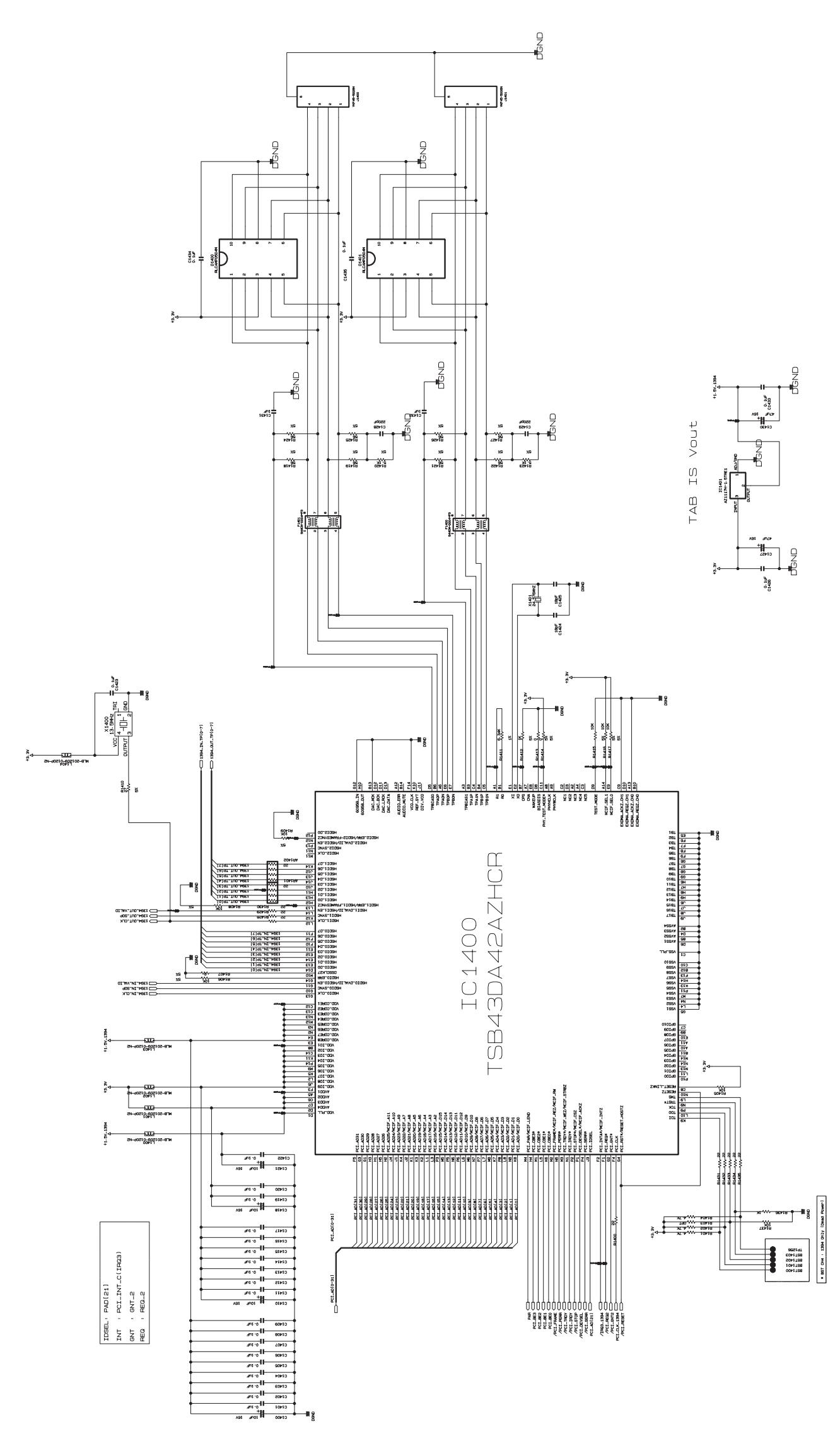
For USA Only



For USA Only



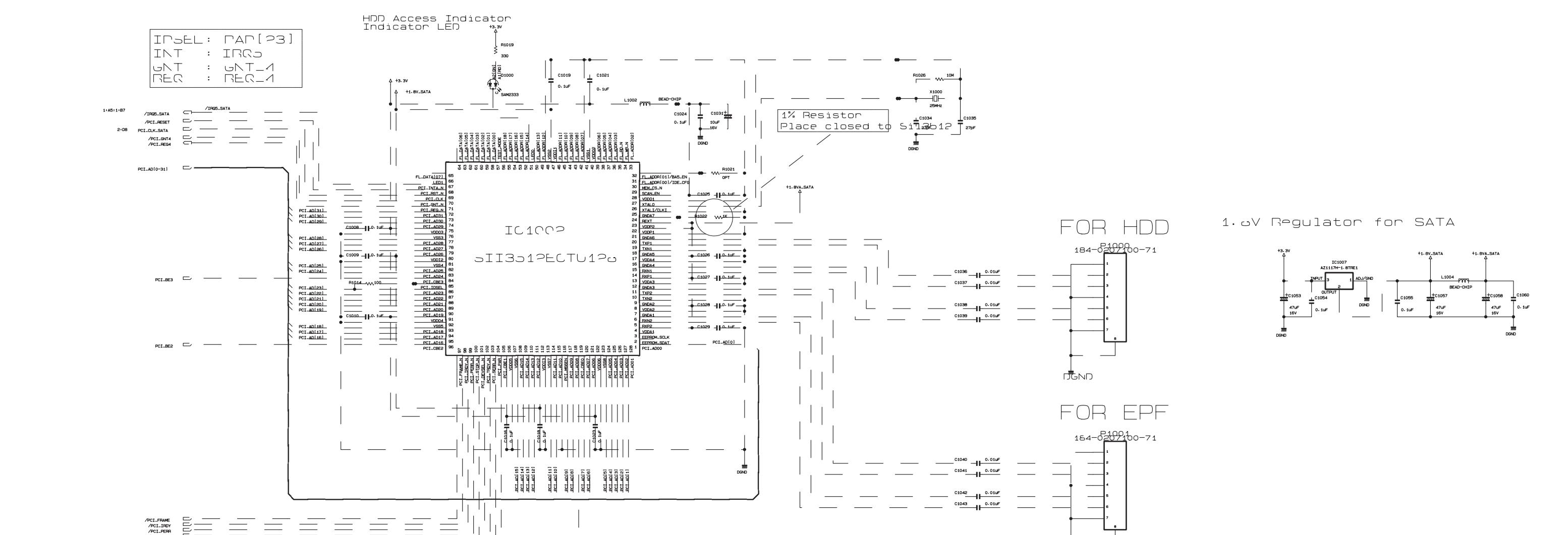
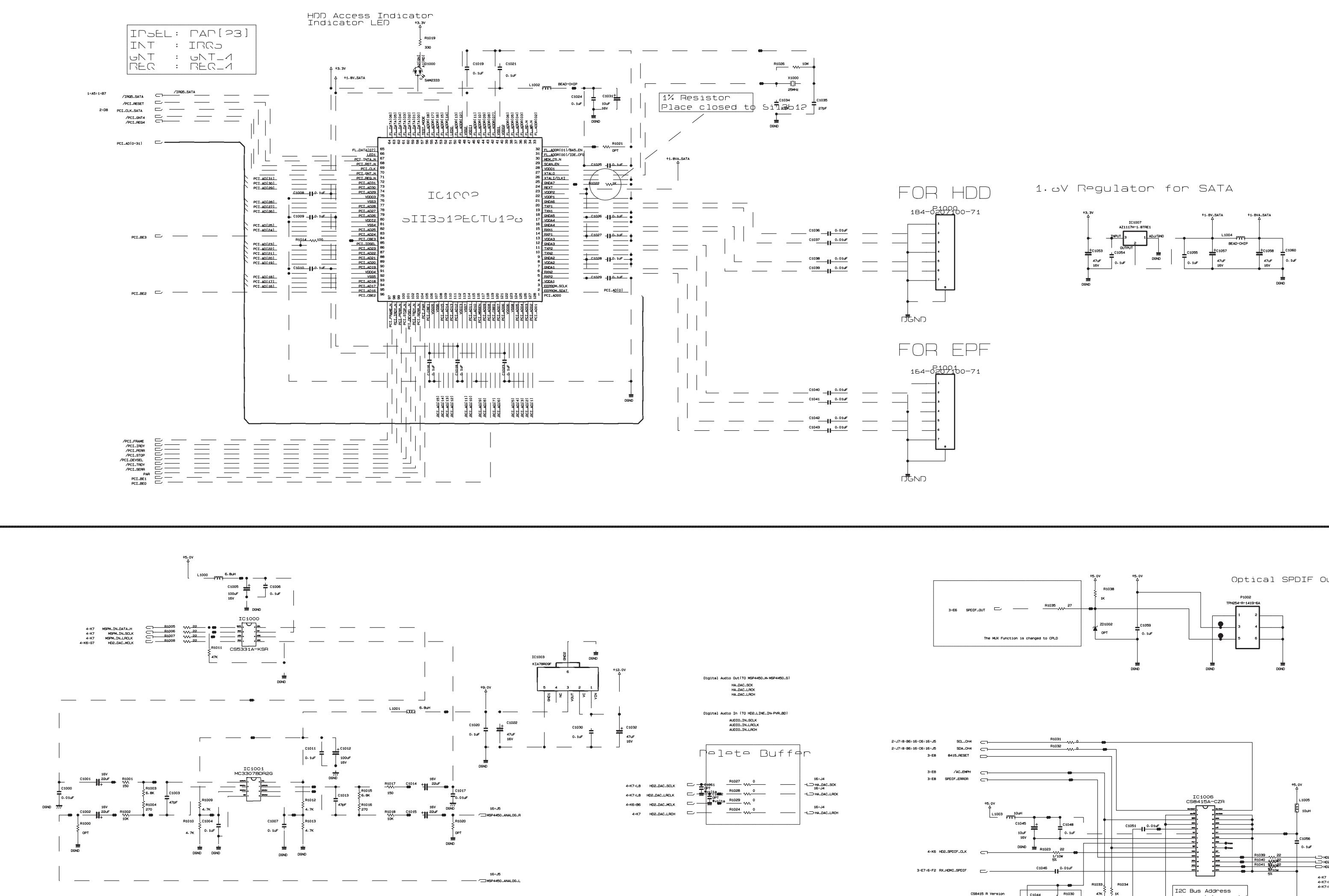
For Korea Only



IC908  
LGD1304P

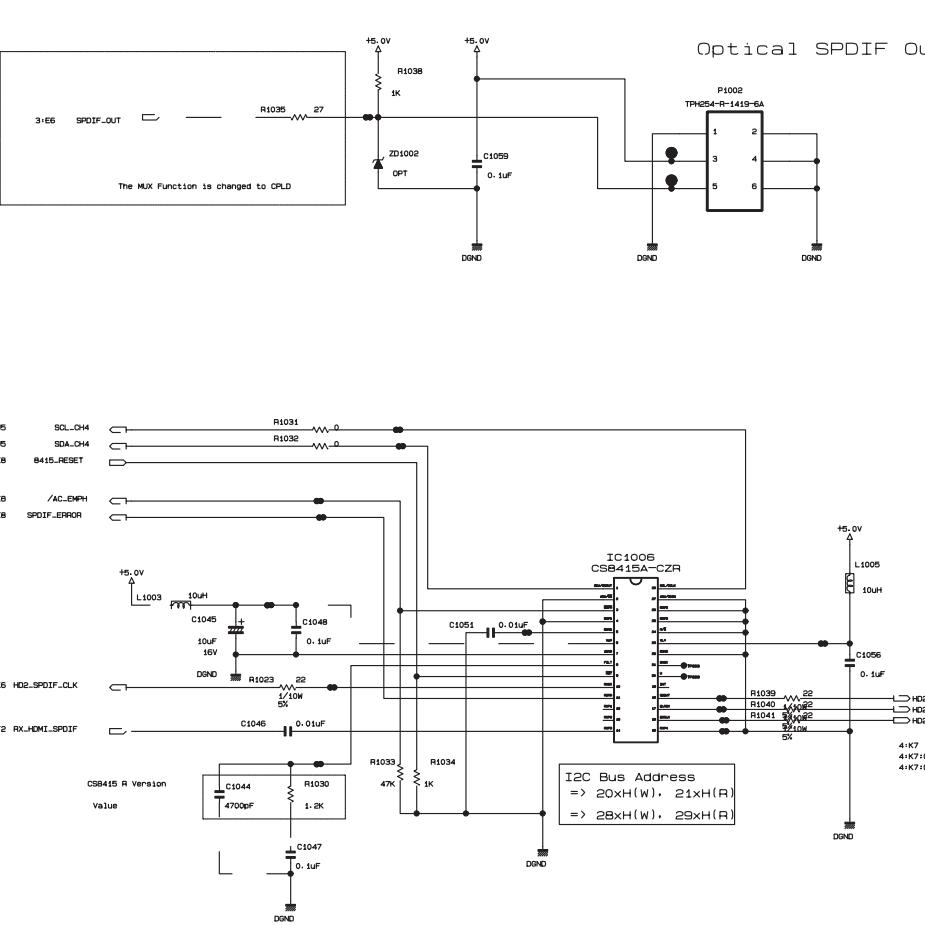
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INT : IRQ4  
GNT : GNT\_1  
REQ : REG\_1

FOR PVR ONLY



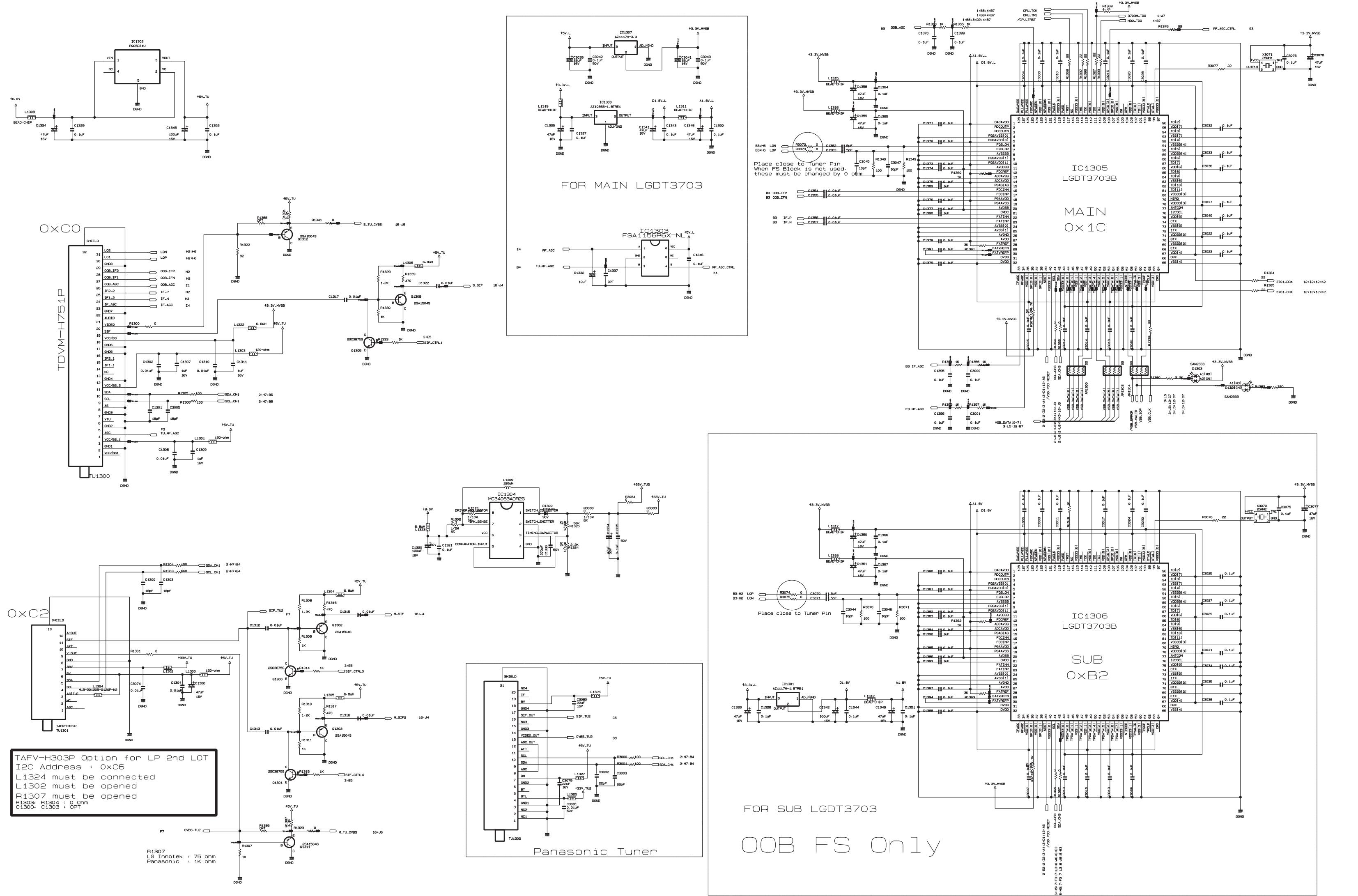
1.6V Regulator for SATA

FOR EPF

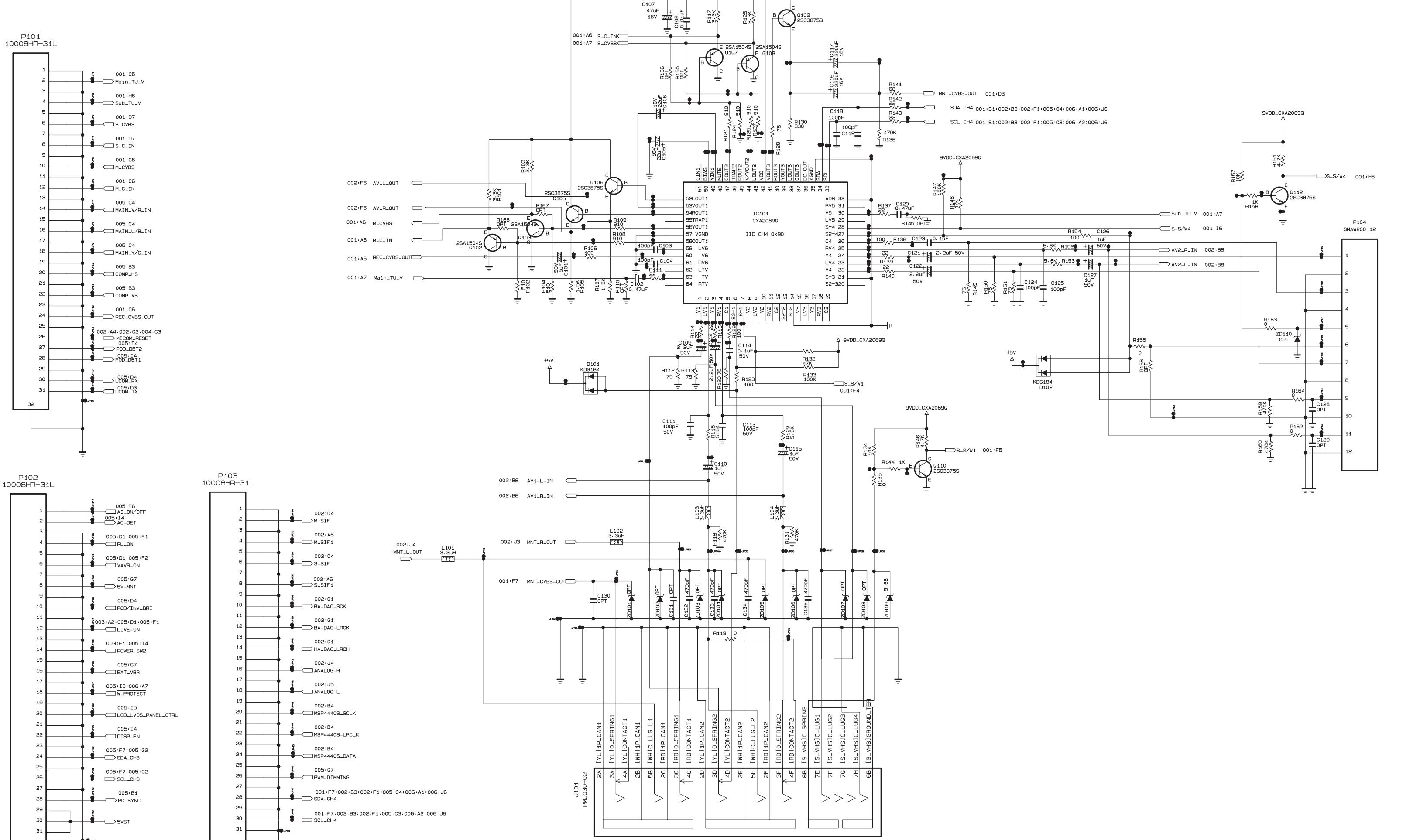


The A symbol mark of this schematic diagram incorporates special features important for protection from x-radiation, fire and electrical shock hazards when servicing of it. It is essential that only manufacturers specified parts be used for the design and assembly of the system. See the A symbol mark of the schematic.

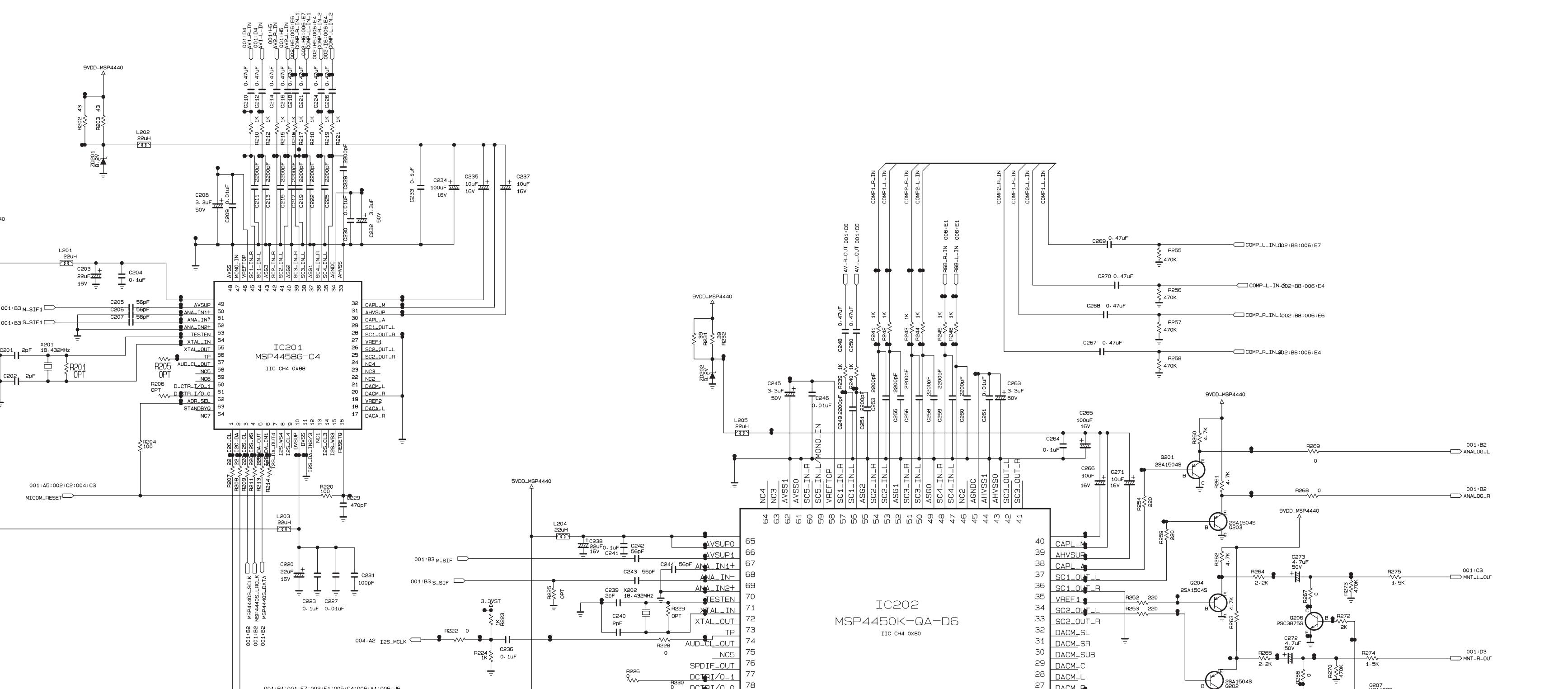
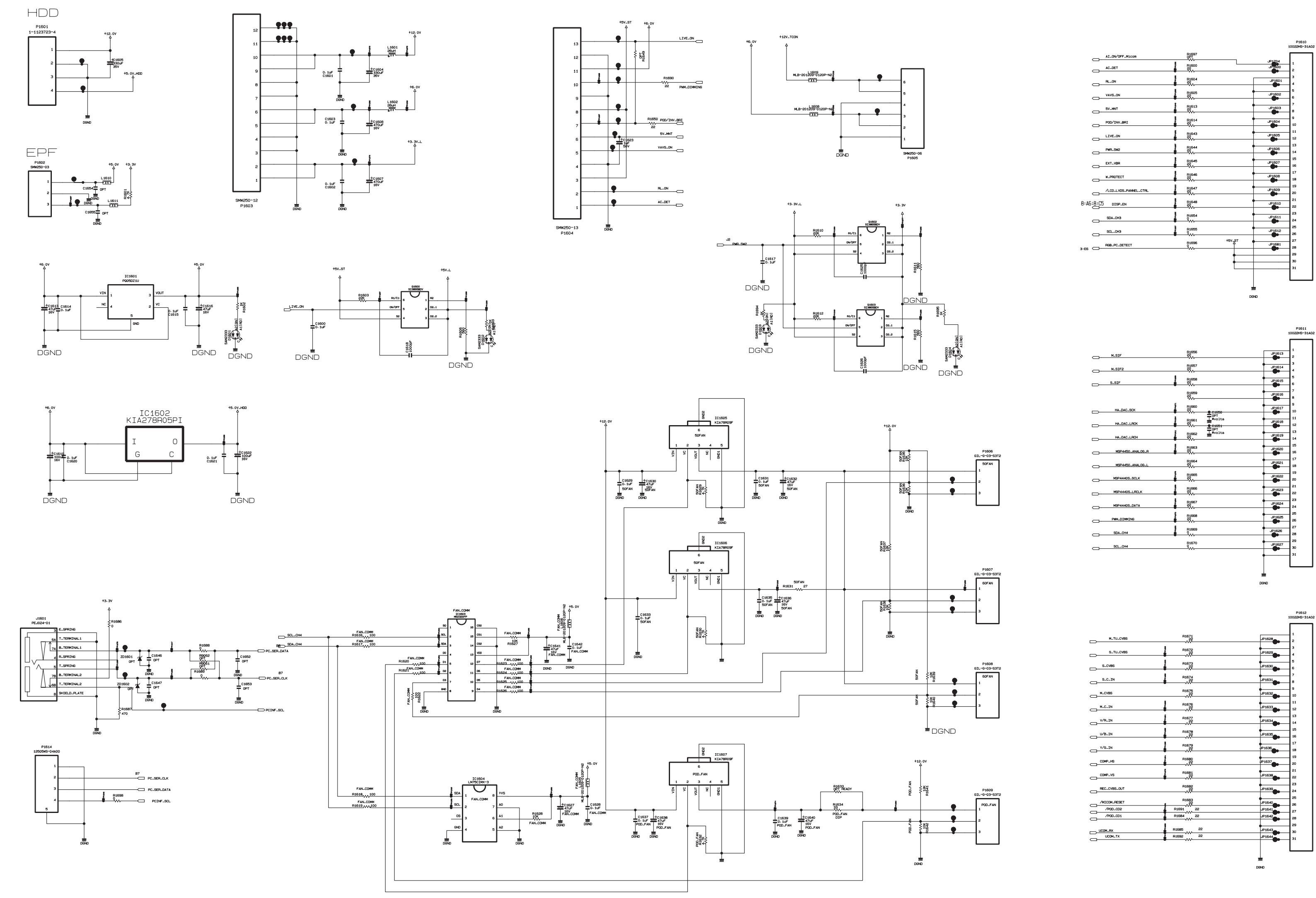
The A symbol mark of this schematic diagram incorporates special features important for protection from x-radiation, fire and electrical shock hazards when servicing of it. It is essential that only manufacturers specified parts be used for the design and assembly of the system. See the A symbol mark of the schematic.



THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.

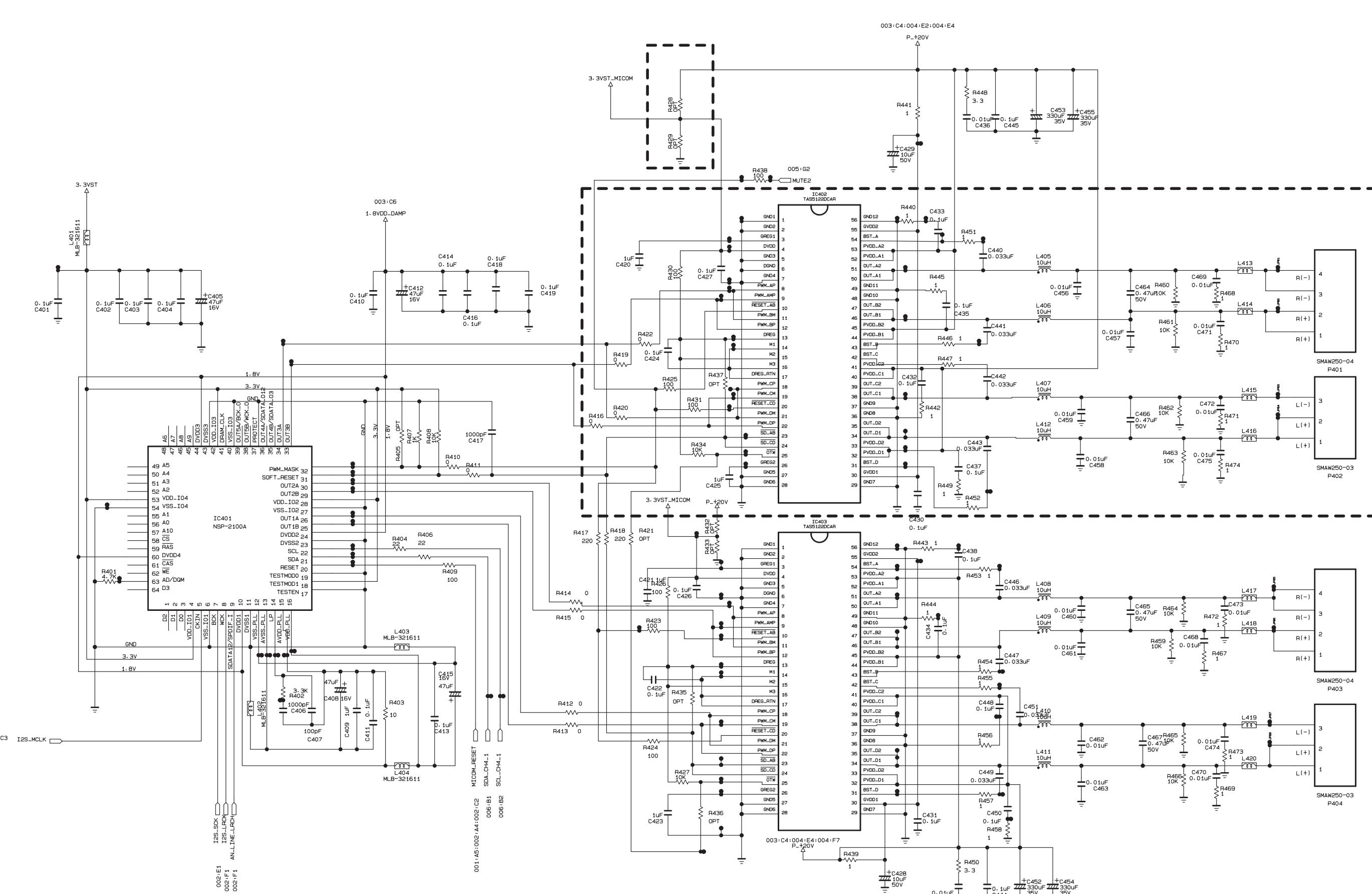
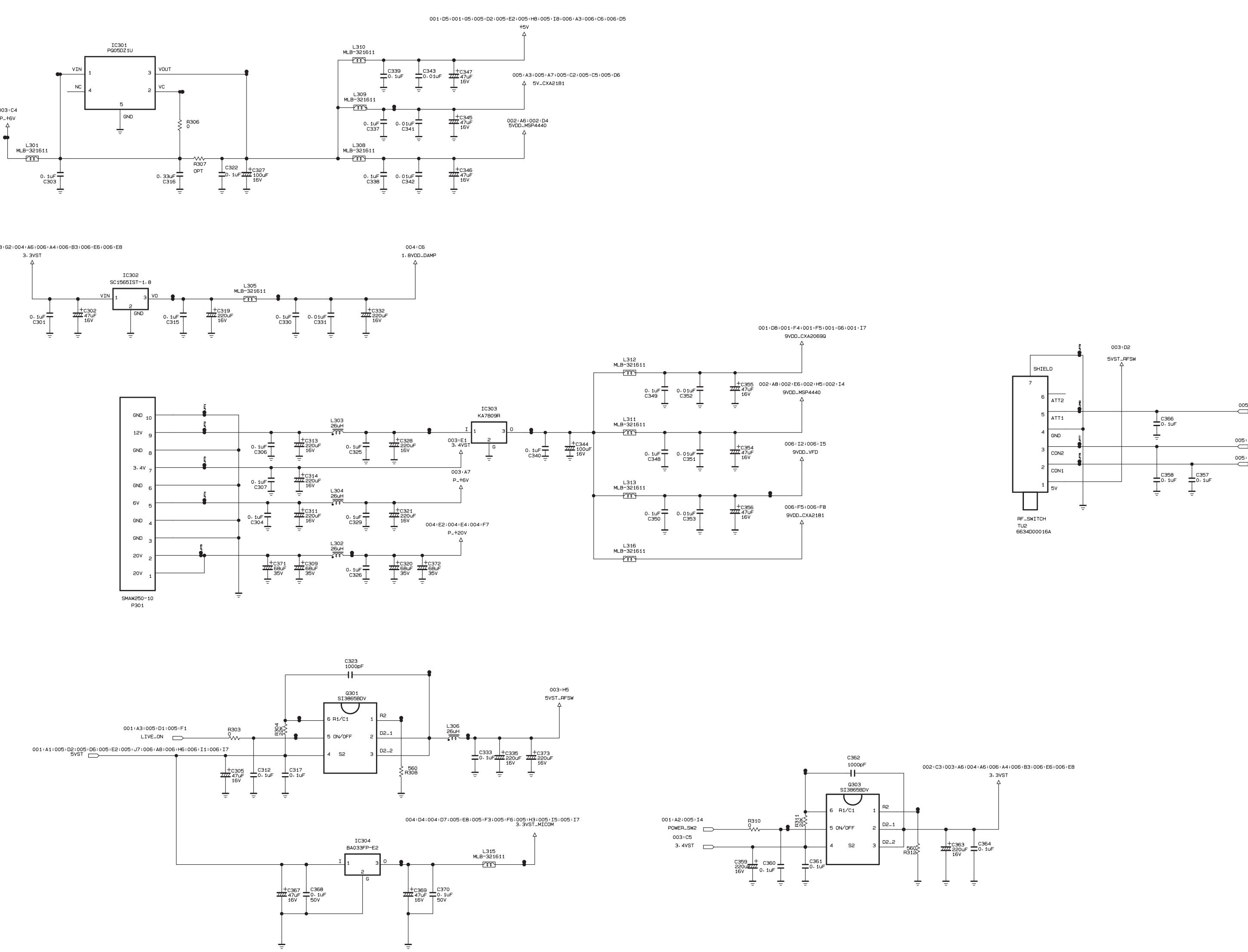


THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.

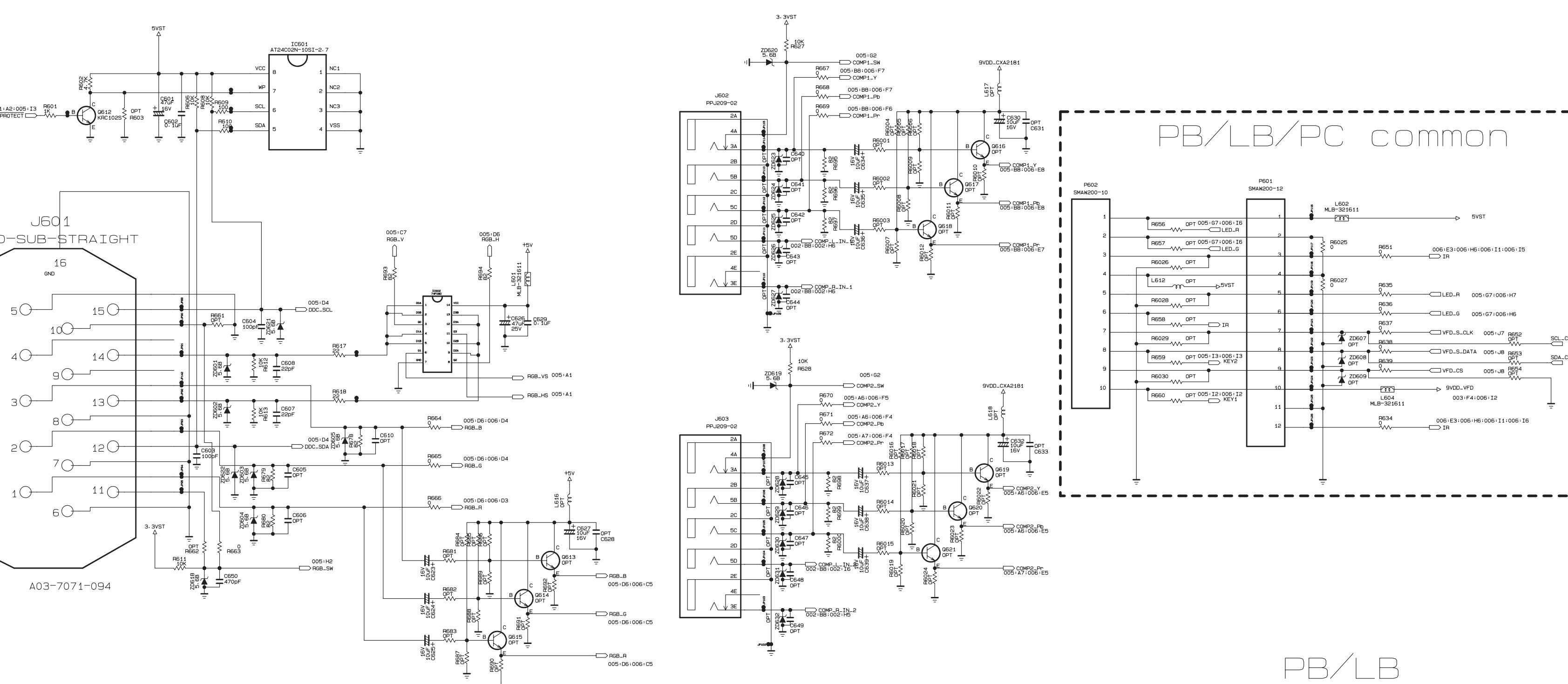
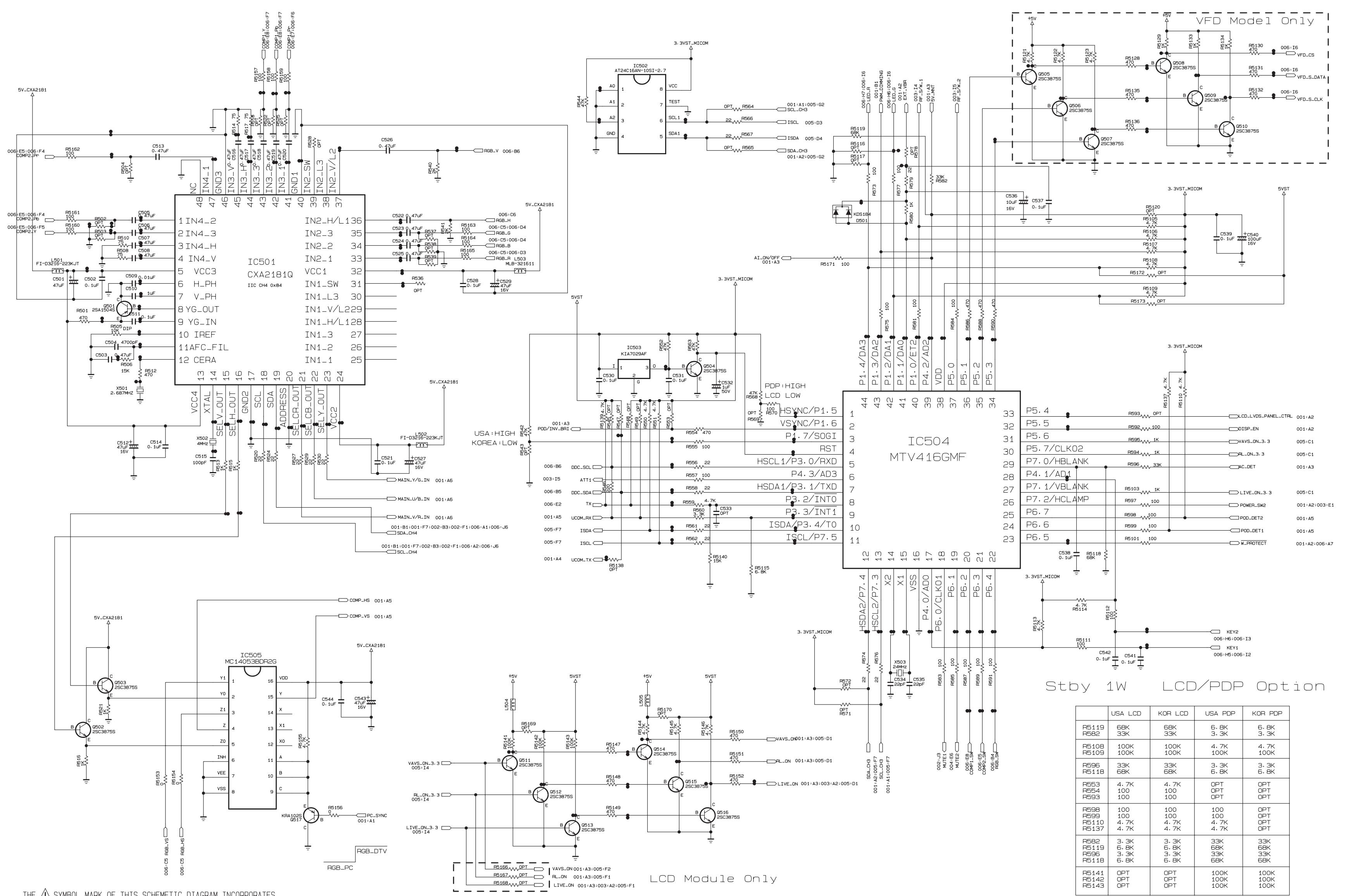


THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURED SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.

# Non-woofer model --> Delete



The SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.



The SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

## Stby 1W LCD/PDP Option

	USA LCD	KOR LCD	USA PDP	KOR PDP
R5119	60K	60K	6.8K	6.8K
R5102	100K	100K	4.7K	4.7K
R5103	100K	100K	100K	100K
R5110	2.5K	2.5K	6.3K	6.3K
R5111	2.5K	2.5K	6.3K	6.3K
R5112	4.7K	4.7K	4.7K	4.7K
R5113	100	100	100	100
R5114	4.7K	4.7K	4.7K	4.7K
R5115	4.7K	4.7K	4.7K	4.7K
R5116	3.3K	3.3K	3.3K	3.3K
R5117	3.3K	3.3K	3.3K	3.3K
R5118	3.3K	3.3K	3.3K	3.3K
R5119	3.3K	3.3K	3.3K	3.3K
R5120	3.3K	3.3K	3.3K	3.3K
R5121	3.3K	3.3K	3.3K	3.3K
R5122	3.3K	3.3K	3.3K	3.3K
R5123	3.3K	3.3K	3.3K	3.3K
R5124	3.3K	3.3K	3.3K	3.3K
R5125	3.3K	3.3K	3.3K	3.3K
R5126	3.3K	3.3K	3.3K	3.3K
R5127	3.3K	3.3K	3.3K	3.3K
R5128	3.3K	3.3K	3.3K	3.3K
R5129	3.3K	3.3K	3.3K	3.3K
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R5131	3.3K	3.3K	3.3K	3.3K
R5132	3.3K	3.3K	3.3K	3.3K
R5133	3.3K	3.3K	3.3K	3.3K
R5134	3.3K	3.3K	3.3K	3.3K
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R5138	3.3K	3.3K	3.3K	3.3K
R5139	3.3K	3.3K	3.3K	3.3K
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R5146	3.3K	3.3K	3.3K	3.3K
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R5209	3.3K	3.3K	3.3K	3.3K
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