



LCD TV

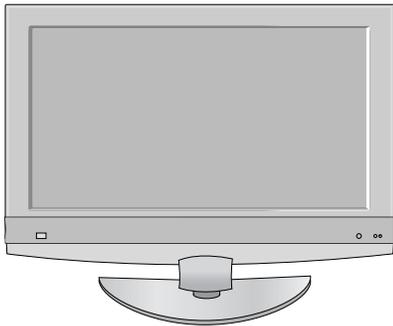
SERVICE MANUAL

CHASSIS : LP78A

MODEL : 42LB9R 42LB9R-TD

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 \triangle 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.

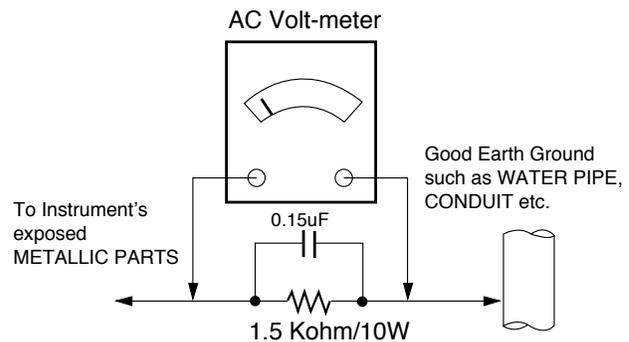
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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 or 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall 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 circuit board printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

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

Removal

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

Replacement

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

"Small-Signal" Discrete Transistor

Removal/Replacement

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

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the 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. Application range

This specification is applied to LP78A chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature : $25 \pm 5^{\circ}\text{C}$ ($77 \pm 9^{\circ}\text{F}$), CST : $40 \pm 5^{\circ}\text{C}$
- (2) Humidity : $65\% \pm 10\%$
- (3) Power : Standard input voltage (100-240V~, 50/60Hz)
*Standard Voltage of each products is marked by models

(4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

(5) The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

3.1 Performance : LGE TV test method followed

3.2 Demanded other specification

Safety : CE, IEC Specification

EMC : CE, IEC

4. General Specification(LCD Module)

Item	Specification		Measurement	Result	Remark		
Display Screen Device	26/27/32/37/42" wide Color Display Module				LCD		
Aspect Ratio	16:9						
LCD Module	26/27/32/37/42" TFT WXGA LCD				MAKER : AUO/CMO/LPL/CPT		
Operating Environment	Temp. : 0 ~ 40 deg, Humidity : 0 ~ 85%				LGE SPEC		
Storage Environment	Temp. : -20 ~ 60 deg, Humidity : 0 ~ 85 %						
Input Voltage	100-240V~, 50/60Hz						
Power Consumption	Power on (Green) ≤ TBD (42") ≤ max (26", 27", 32", 37")				Volume: 1/8 volume of sound distortion point		
	St-By (Red) : 1.0 W						
LCD Module	AUO	Outline Dimension	26"	626.0 x 373.0 x 47.5	mm	(H) x (V) x (D) [with inverter]	
			32"	760.0 x 450.0 x 45	mm		
			37"	877.0 x 514.6 x 54.7	mm		
		Pixel Pitch	26"	0.4215	mm		
			32"	0.51075			
			37"	0.6 x 0.6			(H) x (W)
	Back Light	26",32"	8 U-lamp				
		37"	10 U-lamp				
	CMO	Outline Dimension	27"	637.55 x 379.8 x 40.7	mm	(H) x (V) x (D) [with inverter]	
			32"	760 x 450 x 47.53			
		Pixel Pitch	27"	0.1455 x 0.4365	mm	(H) x (V)	
			32"	0.1730 x 0.5190			
		Back Light	27"	14 CCFL			
			32"	16 CCFL			
	LPL	Outline Dimension	26"	626 x 373 x 44.1	mm	(H) x (V) x (D) [with inverter] (H) x (V)	
			32"	760.0 x 450.0 x 48.0			
			37"	877.0 x 516.8 x 55.5			
			42"	1006 x 610 x 56			
		Pixel Pitch	26"	0.1405 x 0.4215	mm		
			32"	0.17025 x 0.51075			
			37"	0.200 x 0.600			
			42"	0.227 x 0.681			
		Back Light	26"	18 EEFL (17 EEFL)		(LC260WX2-SLB3)	
			32"	18 EEFL			
37"			20 EEFL				
42"			20 CCFL				
Display Colors		16.7M (16,777,216)			(LPL 26")		
Coating		3H, AG					

5. Model Specification(EU)

Item	Specification		Remark
Market	EU		
Broadcasting system	PAL BG/DK, PAL I/II, SECAM L/L'		
Available Channel	BAND	PAL	
	VHF/UHF	C1_C69	
	CATV	S1_S47	
Receiving system	Upper Heterodyne		
SCART Input(2EA)	PAL, SECAM, NTSC		Full Scart 1EA, Harf 1EA
Video Input (1EA)	PAL, SECAM, NTSC		Side AV
S-Video Input (1EA)	PAL, SECAM, NTSC		Side AV S-Video Priority
Component Input (1EA)	Y/Cb/Cr, Y/ Pb/Pr		
RGB Input (1EA)	RGB-PC		
HDMI Input (2EA)	HDMI-DTV		
Audio Input (4EA)	PC Audio, AV (3A), Component (1EA)		L/R Input(PC 1EA,SCART 2EA, SIDE AV 1EA, Component 1EA)
Variable Audio out(1EA)			

6. Component Video Input (Y, Pb, Pr)

Resolution	H-freq(kHz)	V-freq(kHz)	Pixel clock(MHz)	Proposed
720*480	15.73	59.94	13.500	SDTV, DVD 480I(525I)
720*480	15.75	60.00	13.514	SDTV, DVD 480I(525I)
720*576	15.625	50.00	13.500	SDTV, DVD 576I(625I) 50Hz
720*480	31.47	59.94	27.000	SDTV 480P
720*480	31.50	60.00	27.027	SDTV 480P
720*576	31.25	50.00	27.000	SDTV 576P 50Hz
1280*720	44.96	59.94	74.176	HDTV 720P
1280*720	45.00	60.00	74.250	HDTV 720P
1280*720	37.50	50.00	74.25	HDTV 720P 50Hz
1920*1080	33.72	59.94	74.176	HDTV 1080I
1920*1080	33.75	60.00	74.250	HDTV 1080I
1920*1080	28.125	50.00	74.250	HDTV 1080I 50Hz

7. RGB Input (Analog PC)

Resolution	H-freq(kHz)	V-freq(kHz)	Pixel clock(MHz)	Proposed	Remark
640*350	31.468	70.80	25.17	EGA	
720*400	31.469	70.80	28.321	DOS	
640*480	31.469	59.94	25.17	VESA(VGA)	
800*600	37.879	60.31	40.00	VESA(SVGA)	
1024*768	48.363	60.00	65.00	VESA(XGA)	
1280*768	47.776	59.87	79.50	WXGA	XGA only
1360*768	47.720	59.799	84.75	WXGA	XGA only
1366*768	47.720	59.799	84.75	WXGA	XGA only

8. HDMI input (DTV)

Resolution	H-freq(kHz)	V-freq(kHz)	Pixel clock(MHz)	Proposed
720*480	15.75	60.00	13.514	SDTV, DVD 480I(525I)
720*480	15.73	59.94	13.500	SDTV, DVD 480I(525I)
720*576	15.625	50.00	13.500	SDTV, DVD 576I(625I) 50Hz
720*480	31.47	59.94	27.000	SDTV 480P
720*480	31.50	60.00	27.027	SDTV 480P
720*576	31.25	50.00	27.000	SDTV 576P 50Hz
1280*720	44.96	59.94	74.176	HDTV 720P
1280*720	45.00	60.00	74.250	HDTV 720P
1280*720	37.50	50.00	74.25	HDTV 720P 50Hz
1920*1080	33.72	59.94	74.176	HDTV 1080I
1920*1080	33.75	60.00	74.250	HDTV 1080I
1920*1080	28.125	50.00	74.250	HDTV 1080I 50Hz
1920*1080	67.432	59.94	148.350	HDTV 1080P
1920*1080	67.5	60	148.5	HDTV 1080P
1920*1080	56.250	50	148.5	HDTV 1080P 50Hz

ADJUSTMENT INSTRUCTION

1. Application Range

This spec sheet is applied all of the 26/32/37/42" LCD TV(LP78A) by manufacturing LG TV Plant all over the world.

2. Specification

- 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 instrument.
- 2) Adjustment must be done in the correct order.
- 3) The adjustment must be performed in the circumstance of $25 \pm 5^\circ\text{C}$ of temperature and $65 \pm 10\%$ of relative humidity if there is no specific designation.
- 4) The input voltage of the receiver must keep 100~220V, 50/60Hz.
- 5) Before adjustment, execute Heat-Run for 30 minutes at RF no signal.

3. Adjustment items

3.1. PCB assembly adjustment items

- 1) Download the VCTP main software (IC500,VCT_Pro)
- 2) Channel memory (IC501,EEPROM)
- 3) Color carrier Adjustment

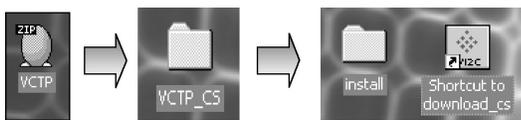
3.2. SET assembly adjustment items

- 1) DDC Data input.
- 2) Adjustment of White Balance.
- 3) Factoring Option Data input.

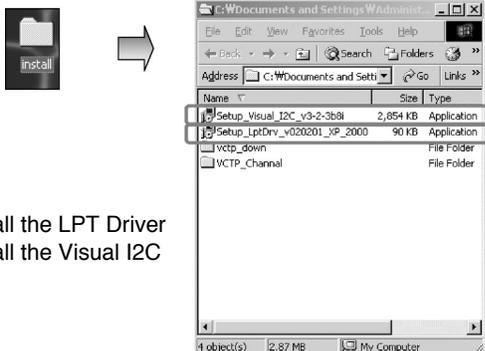
4. PCB assembly adjustment method (Using VCTP Download program)

4.1. Download program installation

- (1) Extract a Zip file



- (2) Visual I2C & LPT Driver Installation



Install the LPT Driver
Install the Visual I2C

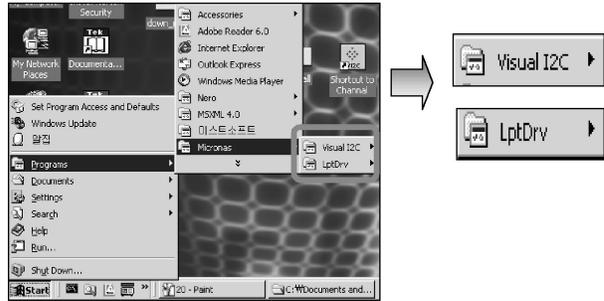
LPT Port Driver (LptDrv) Setups : Program Files > Micronas > Visual I2C > Port_Driver

*Use for Windows 95/98 : Setup_LptDrv_v0104_9x.exe

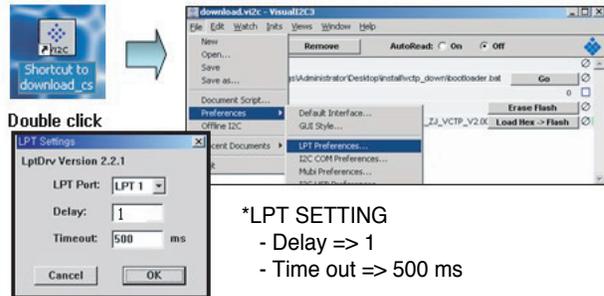
*Use for Windows 2000/XP : Setup_LptDrv_v0202_XP_2000.exe

*Use for Windows NT : Setup_LptDrv_v0104_NT.exe

- (3) Verification (Start > Programs > Micronas > Visual I2C or LptDrv)



- (4) LPT delay setting (File > Preference > LPT preferences)



*LPT SETTING

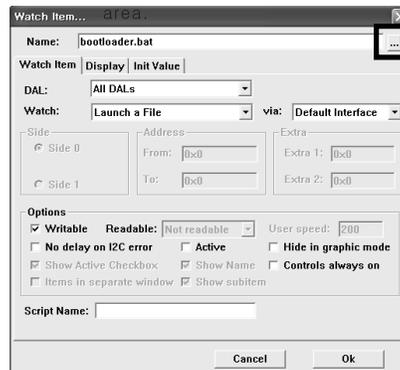
- Delay => 1

- Time out => 500 ms

- (5) Exchange the bootloader.bat file.

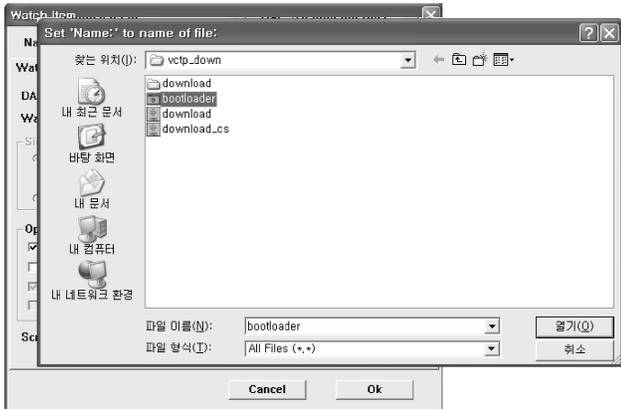


► Double click the Red

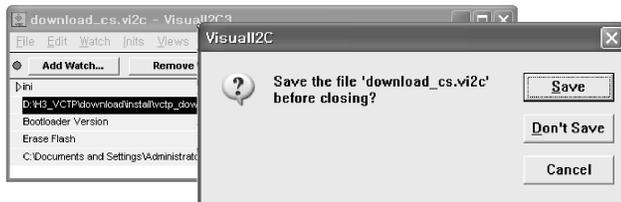


► Double click the Red

area.



=> Select the "Bootloader.bat" file (install > VCTP_download > Bootloader)
=> Push "OK"



=> Finish the program, after saving the file "download_cs.vi2c" (if you click [X], the message appears automatically)

4.2. S/W program download

(1) Download method 1 (PCB Ass'y)



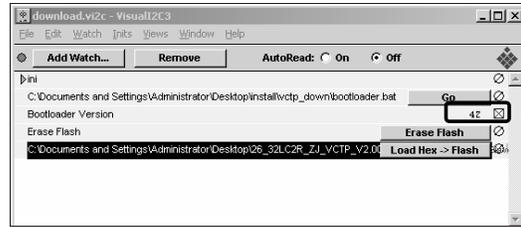
- 1) Connect the download jig to D-sub jack
- 2) Execute 'Download.vi2c' program in PC, then a main window will be opened



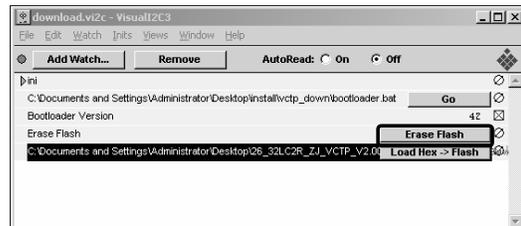
Double click



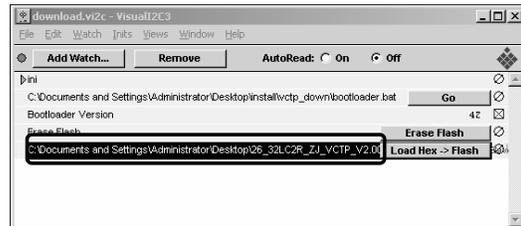
- 3) Double click the blue box and confirm "Bootloader Version" as 42.



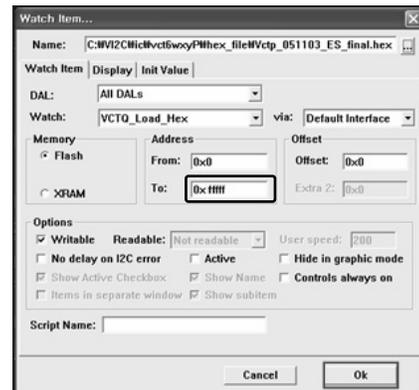
- 4) Click the "Erase Flash" button



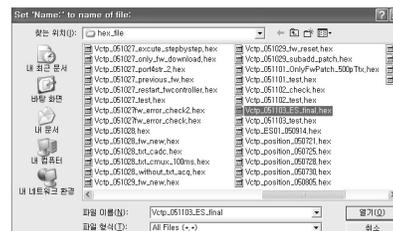
- 5) Double click the download file low, then "edit" window will be opened



- 6) Click the choice button in the "edit window", then "file choice window" will be opened.



- 7) Choose the Hex file in folder and execute downloading with click "open" button.

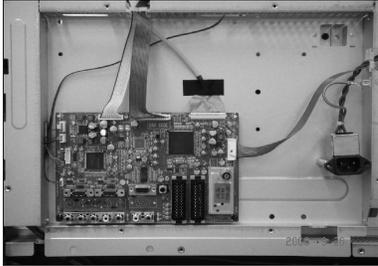


- 8) Click OK button at the "edit window".
- 9) Under Downloading process

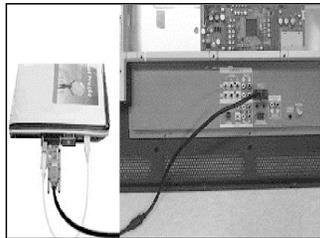
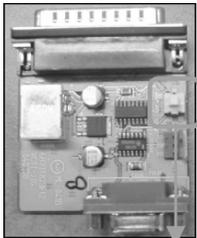


- 10) If download is failed, for example "No acknowledge from slave". Execute download again from(1).

(2) Download method 2 (AV Plate Ass'y)

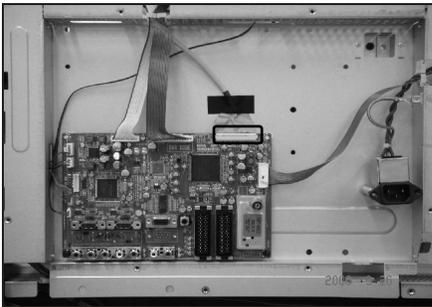


- 1) Push S/W 'ON' (connect SCL to GND using switch at Jig) and connect the download jig to D-sub jack.

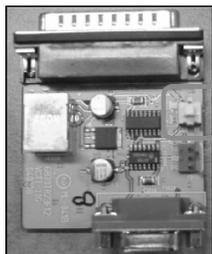


Push S/W

- 2) Supply the power (Stand-by 5V) and wait for 3 seconds.



- 3) Push the S/W off (Disconnect SCL to GND using switch at jig).

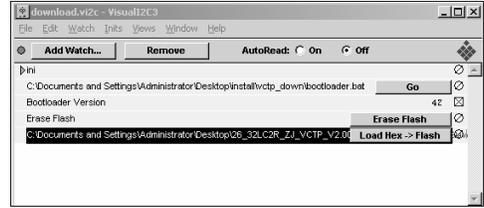


Push S/W

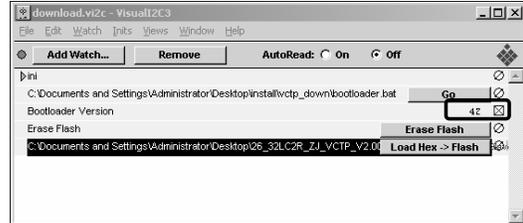
- 4) Execute 'Download.vi2c' program in PC, then a main widow will be opened.



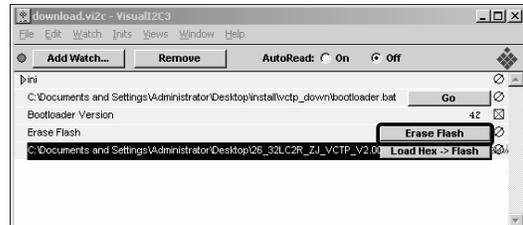
Double click



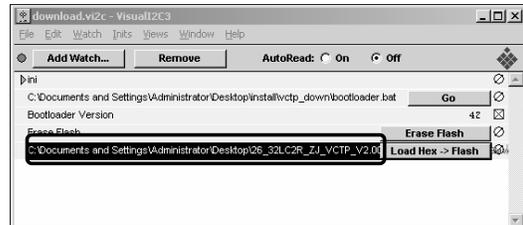
- 5) Double click the blue box and confirm "Bootloader Version" as 42.



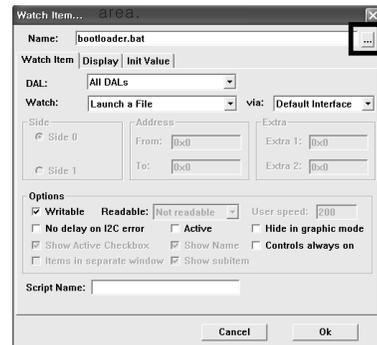
- 6) Click the "Erase Flash" button.



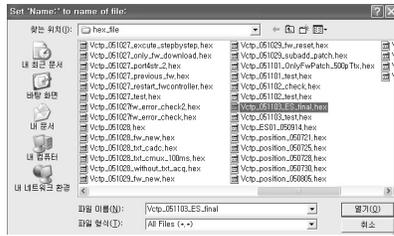
- 7) Double click the download file low then, "edit" window will be opened.



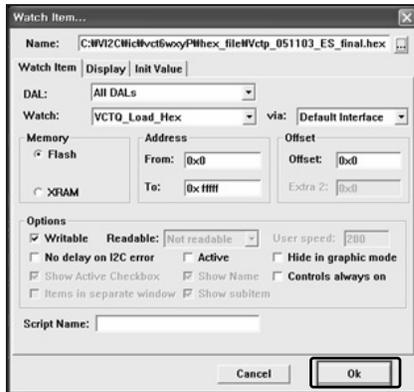
- 8) Chck the choice button I n the "edit window", then "file choice window' will be opened.



9) Choose the Hex file in folder and execute downloading with click "open button".



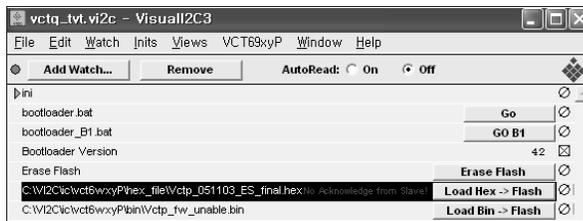
10) Click OK button at the "edit window"



11) Under Downloading progress.

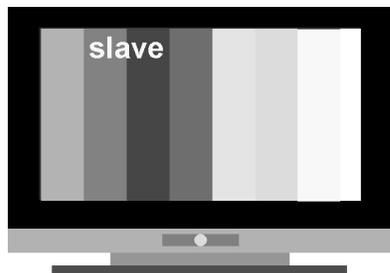


12) If download is failed, for example "No acknowledge from slave", execute download again from (1).

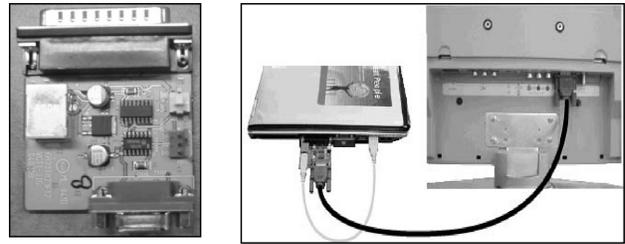


(3) Download method 3 (SET)

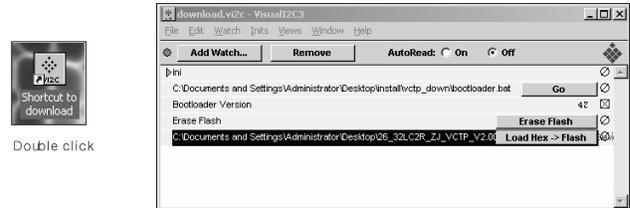
1) Push the "Tilt" button in an Adjust Remocon Then the LCD TV will change a "slave mode".



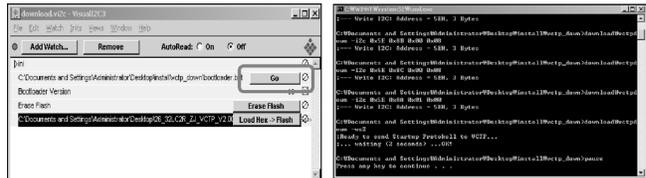
2) Connect Zig to TV using a D-sub cable.



3) Execute 'Download_CS.vi2c' program in PC, then a main widow will be opened.



4) Click "GO" button.



If you don't push the "go", the Hex file would not be downloaded although the download proceeds normally at first glance.

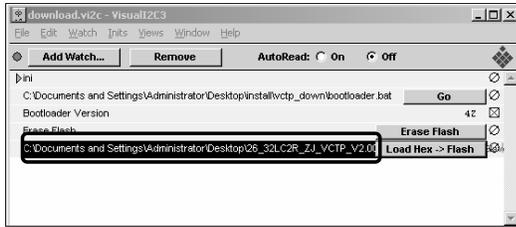
5) Double click the blue box and confirm "Bootloader Version" as 42.



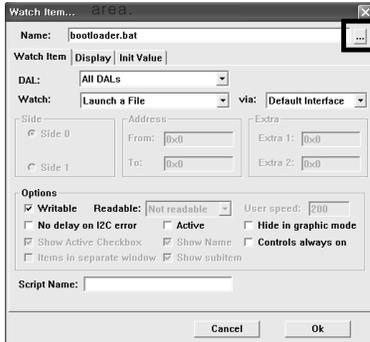
6) Click the "Erase Flash" button



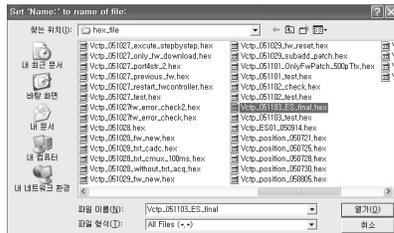
7) Double click the download file low then, "edit" window will be opened.



8) Click the choice button I in the "edit window", then "file choice window" will be opened



9) Choose the Hex file in folder and execute downloading with click "open button"



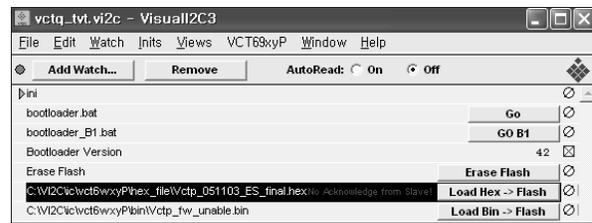
10) Click OK button at the "edit window"



11) Downloading



12) If download is failed, for example "No acknowledge from slave", execute download again from (1).

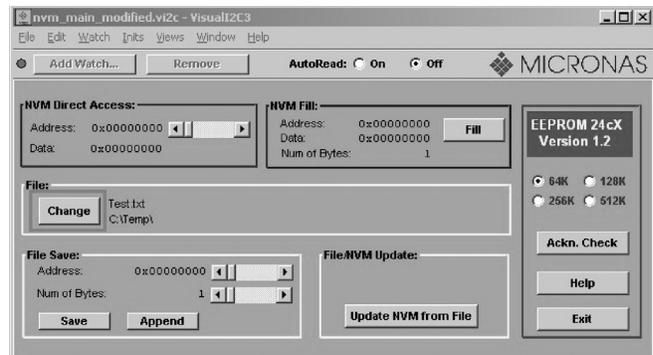


4.3. Channel memory download

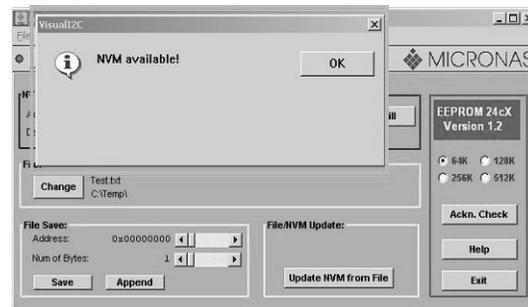
- (1) Connect the download jig to D-sub jack.
- (2) Execute 'Channel.vi2c' program in PC, then a main window will be opened.



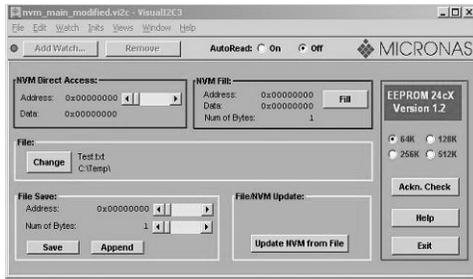
- (3) Push the button change and select the Channel memory data.



- (4) Check the communication is OK or not.
=> Push the Read area (Ackn. Check) and check Cyan area is OK message.



(5) Push the Update NVM from File



4.4. Tool Option Area Option Change

Before PCB check, have to change the Tool option and Area option

Option values are below

(If on changed the option, the input menu can differ the model spec.)

The input methods are same as other chassis(Use adj Key on the Adjust Remocon)

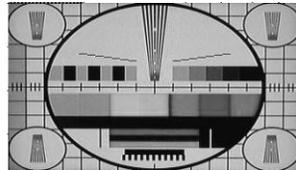
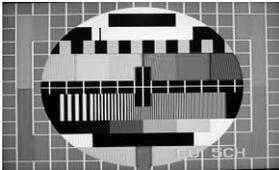
Tool Option		
Inch	ZA	TA
26	02240	04288
32	02256	04304
37	02264	04312
42	02272	04320
Area Option	Depend on PR	

4.5. Color carrier Adjustment (Inspection process)

(1) Tuning the RF signal

ZA, TA : PAL Philips Pattern(with color Bar)

MA : NTSC Digital Pattern(with color Bar)

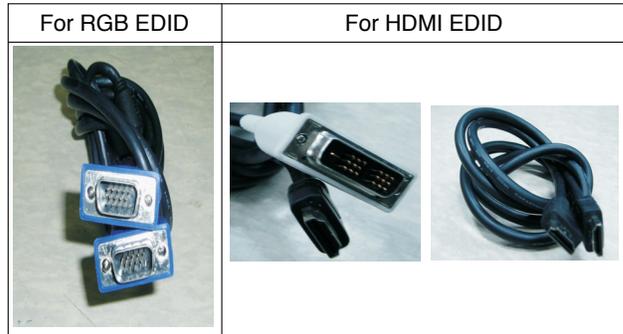


(2) push the "adj" key in the adjustment remocon.

5. EDID(The Extended Display Identification Data) /DDC(Display Data Channel) download

* Caution

- Use the proper signal cable for EDID Download.
- Never connect HDMI & D-SUB Cable at the same time.
- Use the proper cables below for EDID Writing.



* EDID Data

Item	Condition	Data
Manufacturer ID	GSM	1E6D
Version	Digital : 1	01
Revision	Digital :3	03

<EDID DATA Analog Set : 128bytes>

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	(a)	(b)					
0010	(c)			01	03	08	46	27	78	0A	D9	B0	A3	57	49	9C	25
0020	11	49	4B	A1	08	00	31	40	01	01	01	01	45	40	01	01	
0030	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88	
0040	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30	
0050	40	80	37	0	BC	88	21	00	00	18	00	00	00	FD	00	3A	
0060	3F	1F	32	09	00	0A	20	20	20	20	20	(d)					
0070																00	(e)

< EDID DATA HDMI Set : 256bytes>

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	(a)	(b)					
0010	(c)			01	3	80	5C	34	96	0A	F3	30	A7	54	42	AA	26
0020	0F	48	4C	00	00	00	01	01	01	01	01	01	01	01	01	01	
0030	01	01	01	01	01	01	8C	0A	D0	8A	20	E0	2D	10	10	3E	
0040	96	00	C4	8E	21	00	00	18	(d)								
0050	(d)											00	00	00	FD	00	2D
0060	41	19	32	8	00	0A	20	20	20	20	20	20	00	00	00	00	
0070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	01	(e)	
0080	02	03	1E	72	23	09	07	02	4B	10	1F	07	16	81	03	05	
0090	14	13	12	04	83	01	00	00	65	03	0C	00	10	00	01	1D	
00A0	80	18	71	1C	16	20	58	2C	25	00	C4	8E	21	00	00	9E	
00B0	01	1D	80	D0	72	1C	16	20	10	2C	25	80	C4	8E	21	00	
00C0	00	9E	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	C4	8E	
00D0	21	00	00	1E	8C	0A	D0	90	20	40	31	20	0C	40	55	00	
00E0	C4	8E	21	00	00	18	01	1D	00	72	51	D0	1E	20	6E	28	
00F0	55	00	C4	8E	21	00	00	1E	00	00	00	00	00	00	00	(e)	

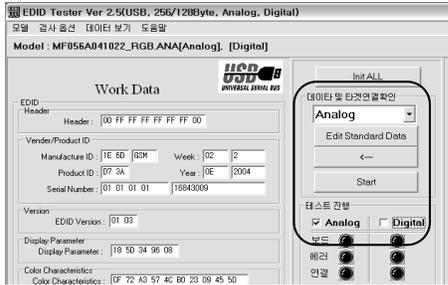
5.1. Sequence of Adjustment

(1) DDC data of Analog-RGB

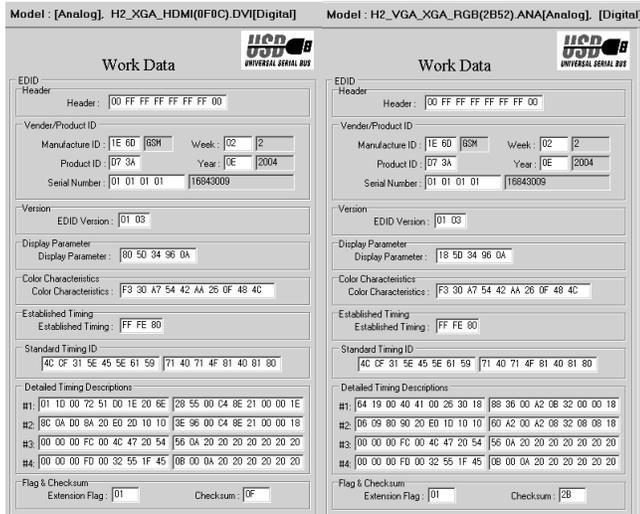
1) Init the data



- 2) Load the EDID data. (Open file)
[Analog - RGB : LP78A_RGB.ANA]
[Digital - HDMI : LP78A_HDMI.DVI]
- 3) Set the S/W as below



- 4) Push the "Write Data & Verify" button. And confirm "Yes".
- 5) If the writing is finished, you will see the "OK" message.



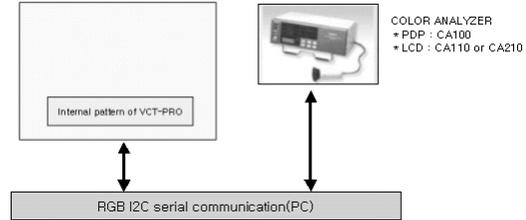
<EDID DATA>

6. Adjustment of White Balance

6.1 Required Equipment

- (1) Remote control for adjustment
- (2) Color Analyzer (CA-110 or CA-210 or same product)
- (3) Auto W/B adjustment instrument(only for Auto adjustment)

6.2 Connecting diagram of equipment for measuring (For Automatic Adjustment)



(1) Enter the DDC adjust mode

- Enter the DDC adjust mode at the same time heat-run mode when pushing the power on by power only key
- Enter the adjust mode and change the input mode to AV (ZA : AV3, TA,MA : AV2)when pushing the Front av key
- Maintain the DDC adjust mode with same condition of Heat-run -> Maintain after AC off/on in status of Heat-run pattern display

(2) Release the DDC adjust mode

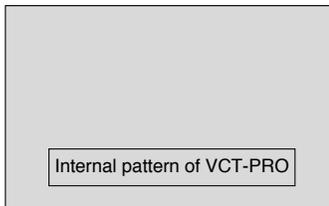
- Release the adjust mode after AC off/on or std-by off/on in status of finishing the Hear-run mode
- Release the Adjust mode when receiving the aging off command(F3 00 00) from adjustment equipment
- Need to transmit the aging off command to TV set after finishing the adjustment.)

(3) DDC adjustment support command set

Adjustment	CMD(HEX)	ADR	
Aging On/Off	F3	00	FF : ON / 00 : OFF
Input select	F4	00	0x10 : TV
			0x20 : AV1(SCART1)
			0x21 : AV2(SCART2)
			0x23 : AV3(Side AV)
			0x40 : Component1
			0x50 : RGB DTV
			0x60 : RGB PC
			0x90 : HDMI1 DTV
R GAIN	16	00	GAIN adjustment
G GAIN	18	00	
B GAI	1A	00	

6.3. Adjustment of White Balance (For Manual adjustment)

- Operate the zero-calibration of the CA-110 or CA-210, then stick sensor to LCD module when you adjust.
- For manual adjustment, it is also possible by the following sequence
 - 1) Select RF no signal by pressing "POWER ON" key on remote control for adjustment then operate heat run more than 15 minutes.
(If not executed this step, the condition for W/B will be differ. The W/B condition is Picture Mode : Standard (MA : Optimum), Color Temp : Normal.)
 - 2) Changing to the av mode by pushing the input or front av key.
 - 3) Display the internal pattern of the VCT-Pro IC by pushing the IN-START.
 - 4) Stick sensor to center of the screen and select each items (Red/Green/Blue Gain and Offset) using ▲/▼ (CH+/-) key on R/C.
 - 5) Adjust R Gain / B Gain using ◀/▶ (VOL+/-) key on R/C.
 - 6) Adjust it until color coordination becomes as below.
(Initially, R/G/B gain and R/G/B offset values are fixed as below)
Red Gain : 80 , Green Gain : 80 , Blue Gain : 80
Red Offset : 80, Green Offset : 80 , Blue Offset : 80
- * Target Value [Picture Mode : Standard (ZA, TA), Optimum(MA), Color Temp: Normal]
 - Normal (9300K) x ; 0.283±0.003 y ; 0.298±0.003
 - Luminance(Y) AV : upper 150 cd/m² (Typ : 350 cd/m²≥)
- => Reference Value(Automatically fixed)
 - Cool(11000K): x:0.274±0.003, y: 0.286±0.003
 - Warm(7200K) : x:0.303±0.003, y: 0.319±0.003



<Pattern for Adjustment of White Balance>

- 7) When adjustment is completed, Exit adjustment mode using EXIT key on R/C

6.4 Input the Shipping Option Data

- 1) Push the ADJ key in a Adjust Remote control.
- 2) Input the Option Number that was specified in the BOM, into the Shipping area.
- 3) The work is finished, Push ■ Key.

7. Default Value in Adjustment mode (Default values maybe modified the module condition)

7.1. White Balance

White Bdance		
RED	Gain	80
Green	Gain	80
Blue	Gain	80
Red	Offset	80
Green	Offset	80
Blue	Offset	80

<Default Value on OSD>

8. Internal press test

Item	Value	Unit	Remark
Dielectric Voltage (AC <-> FG)	1.5	kV	At 100mA for 1sec (Line)
			At 100mA for 1min (OQC)
Dielectric Voltage (Without FG)	3	kV	At 100mA for 1sec (Line)
			At 100mA for 1min (OQC)

9. Sound spec.

Item	Min	Typ	Max	Unit	Remark
Audio Practical Max Output, L(Mono)/R	6	7	9	W	LCD

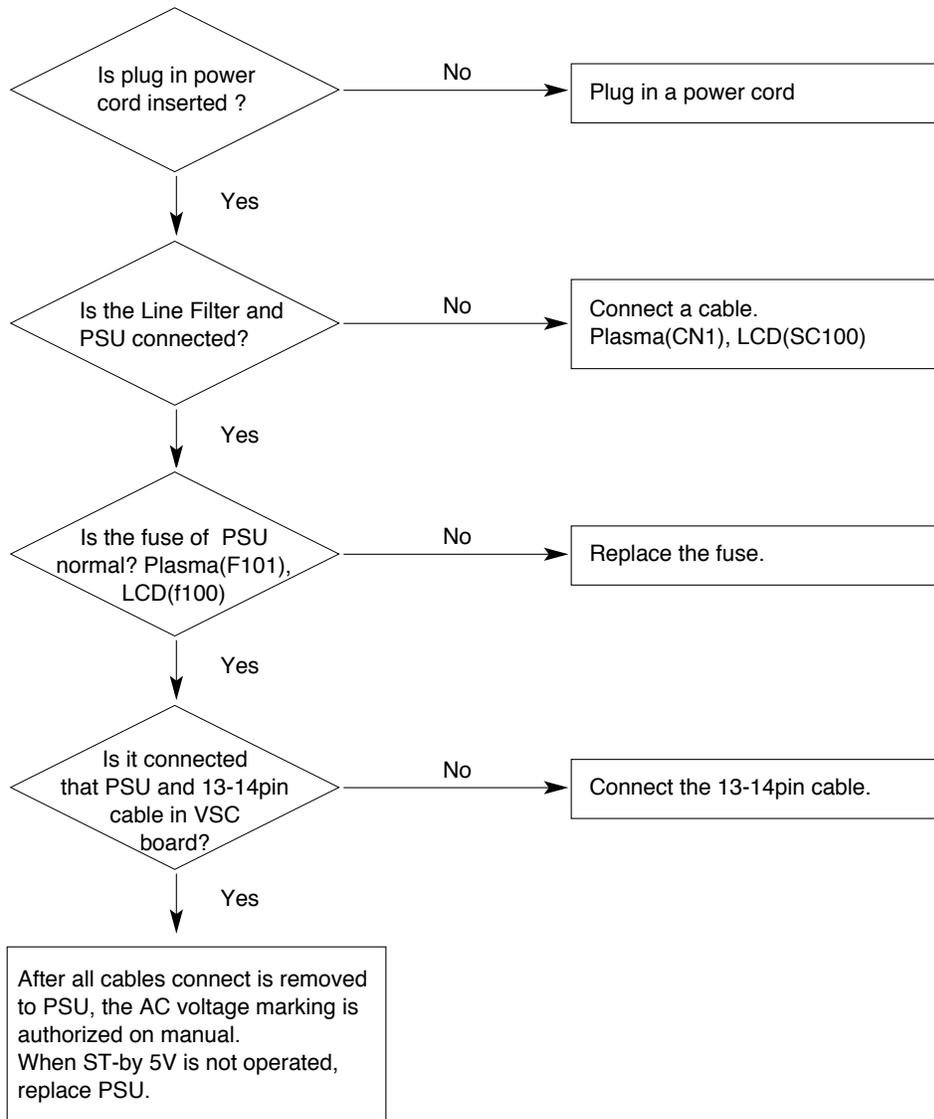
TROUBLESHOOTING

1. No power

(1) Symptom

- 1) It is not discharged minutely from the module.
- 2) Light does not come into the front LED.

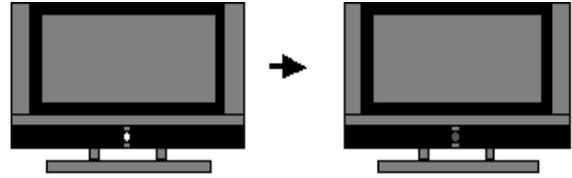
(2) Check process



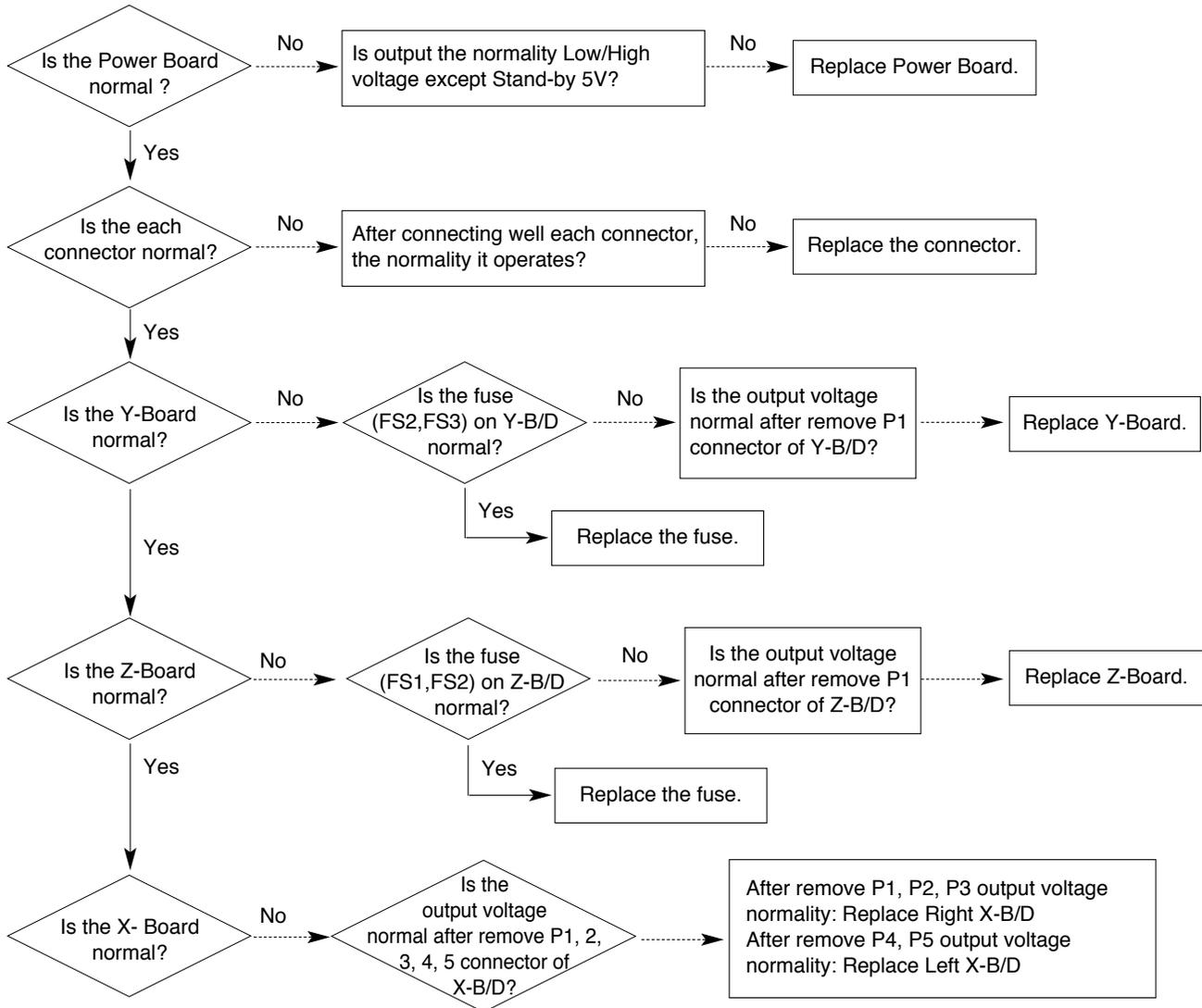
2. Protect mode

(1) Symptom

- 1) After once shining, it does not discharge minutely from module.
- 2) The relay falls.(The sound is audible "Click".)
- 3) It is converted with the color where the front LED is red from green.



(2) Check following



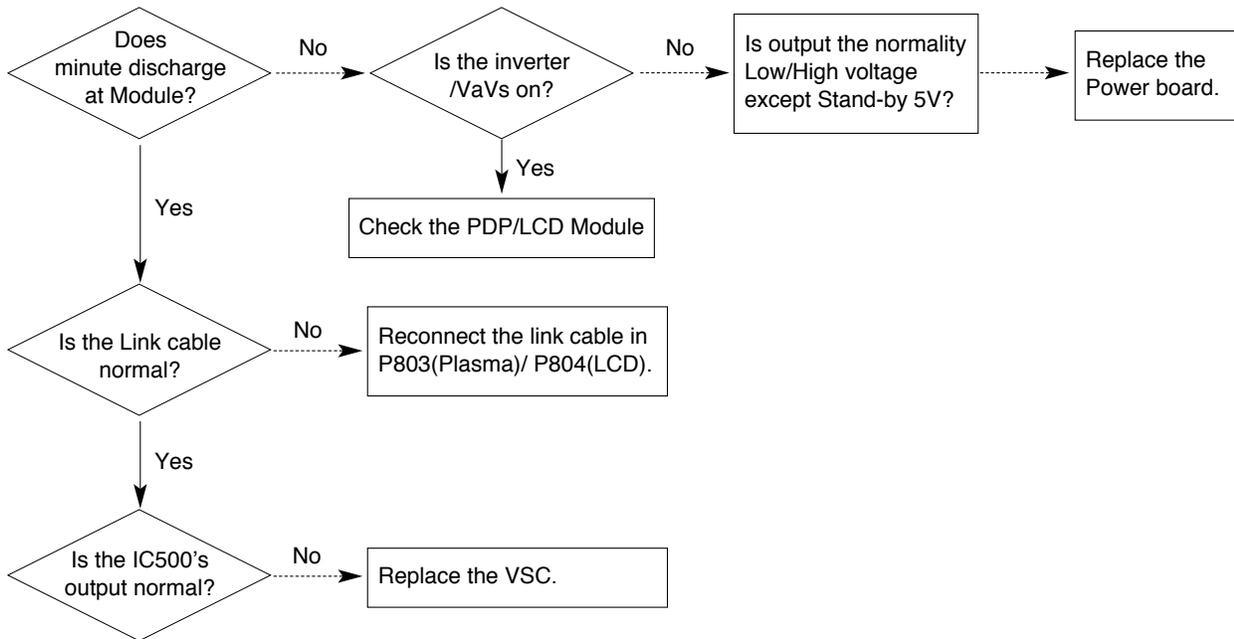
3. No Raster

(1) Symptom

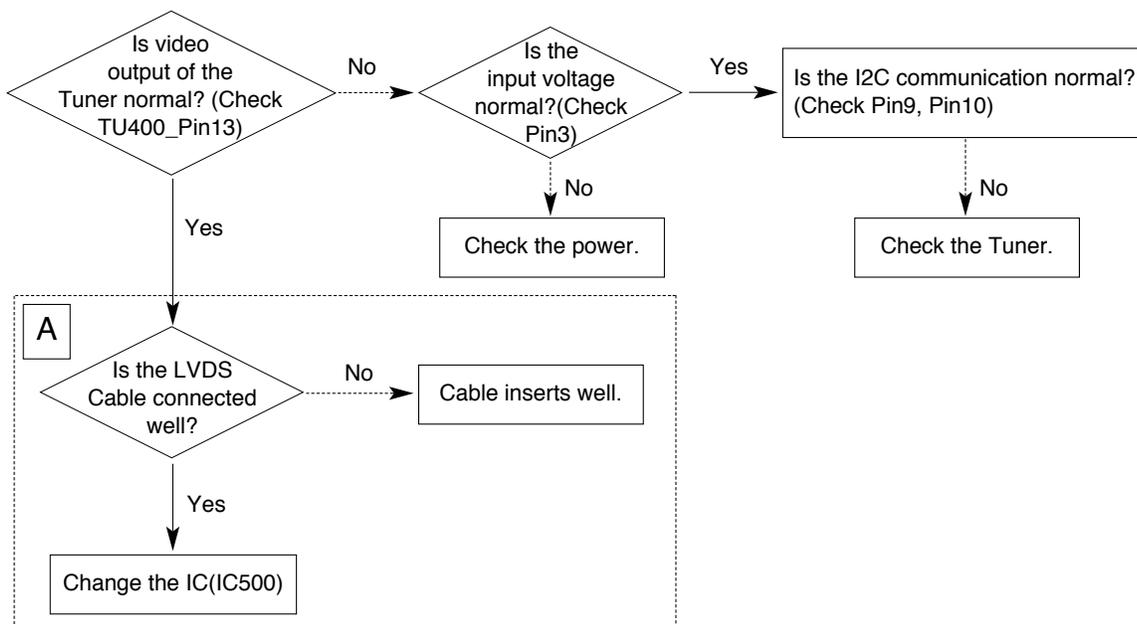
- 1) No OSD and image occur at screen.
- 2) It maintains the condition where the front LED is green.



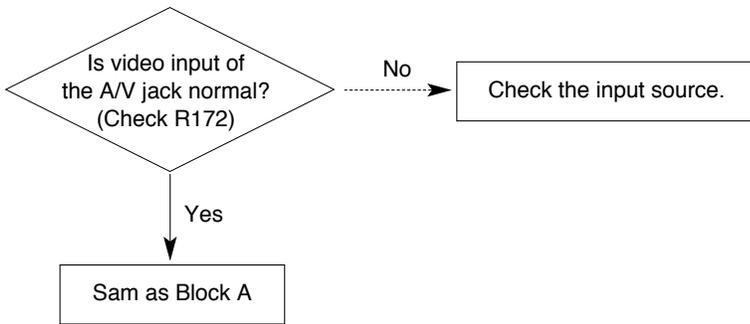
(2) Check following



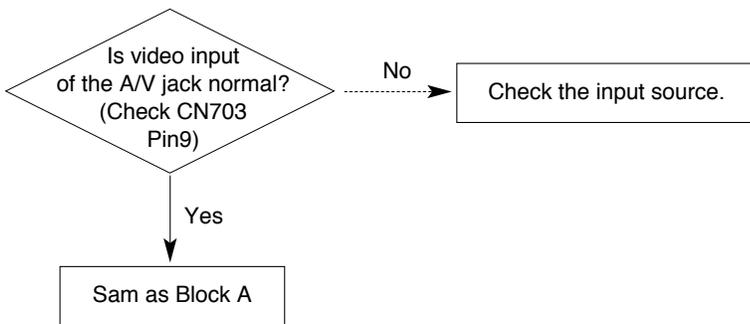
4. In case of becomes unusual display from RF mode.



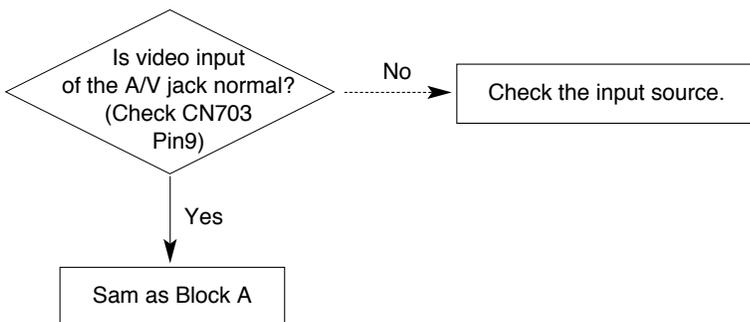
5. In case of becomes unusual display from rear AV mode.



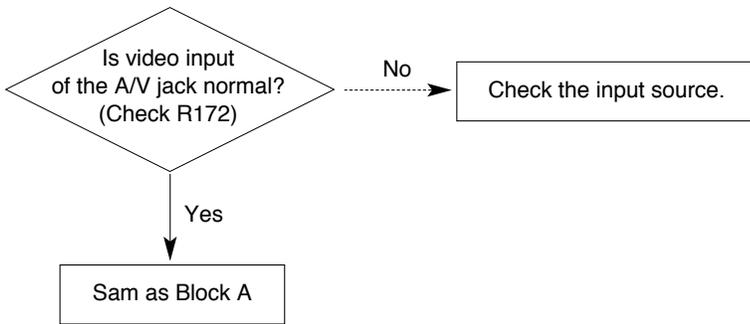
6. In case of becomes unusual display from Side AV mode.



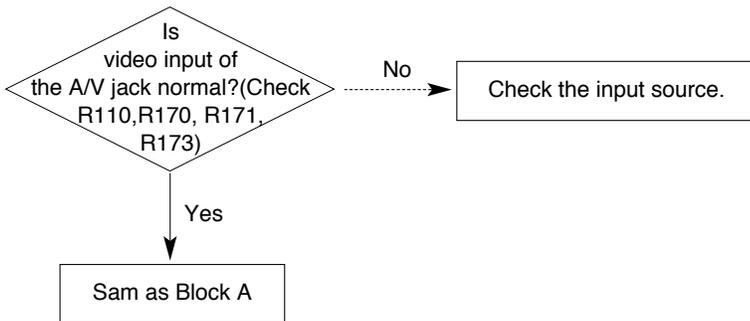
7. In case of becomes unusual display from Side S-Video mode.



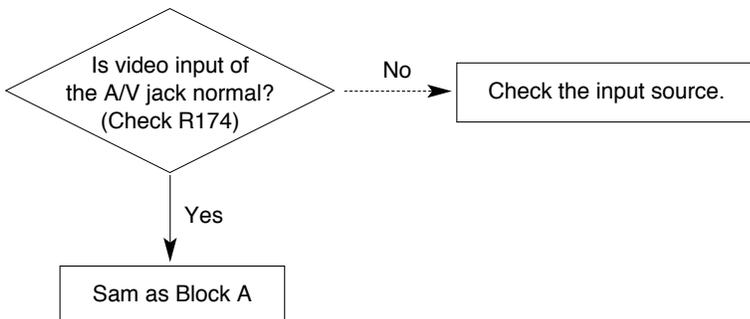
8. In case of becomes unusual display from SCART 1 mode.



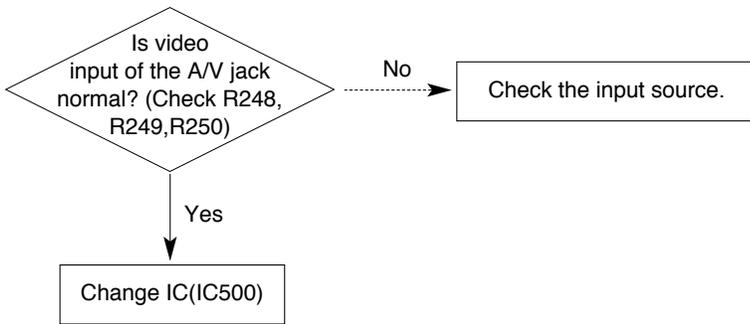
9. In case of becomes unusual display from SCART 1_RGB mode.



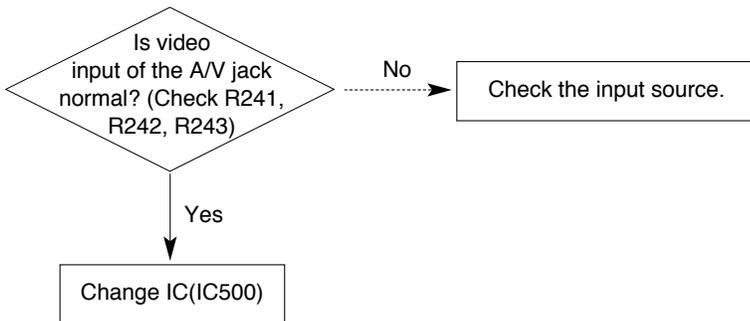
10. In case of becomes unusual display from SCART 2 mode.



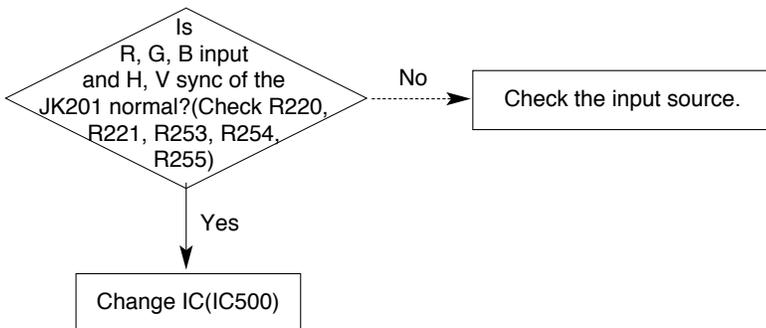
11. In case of becomes unusual display from component 1 mode.



12. In case of becomes unusual display from component 2 mode.



13. In case of becomes unusual display from RGB mode.

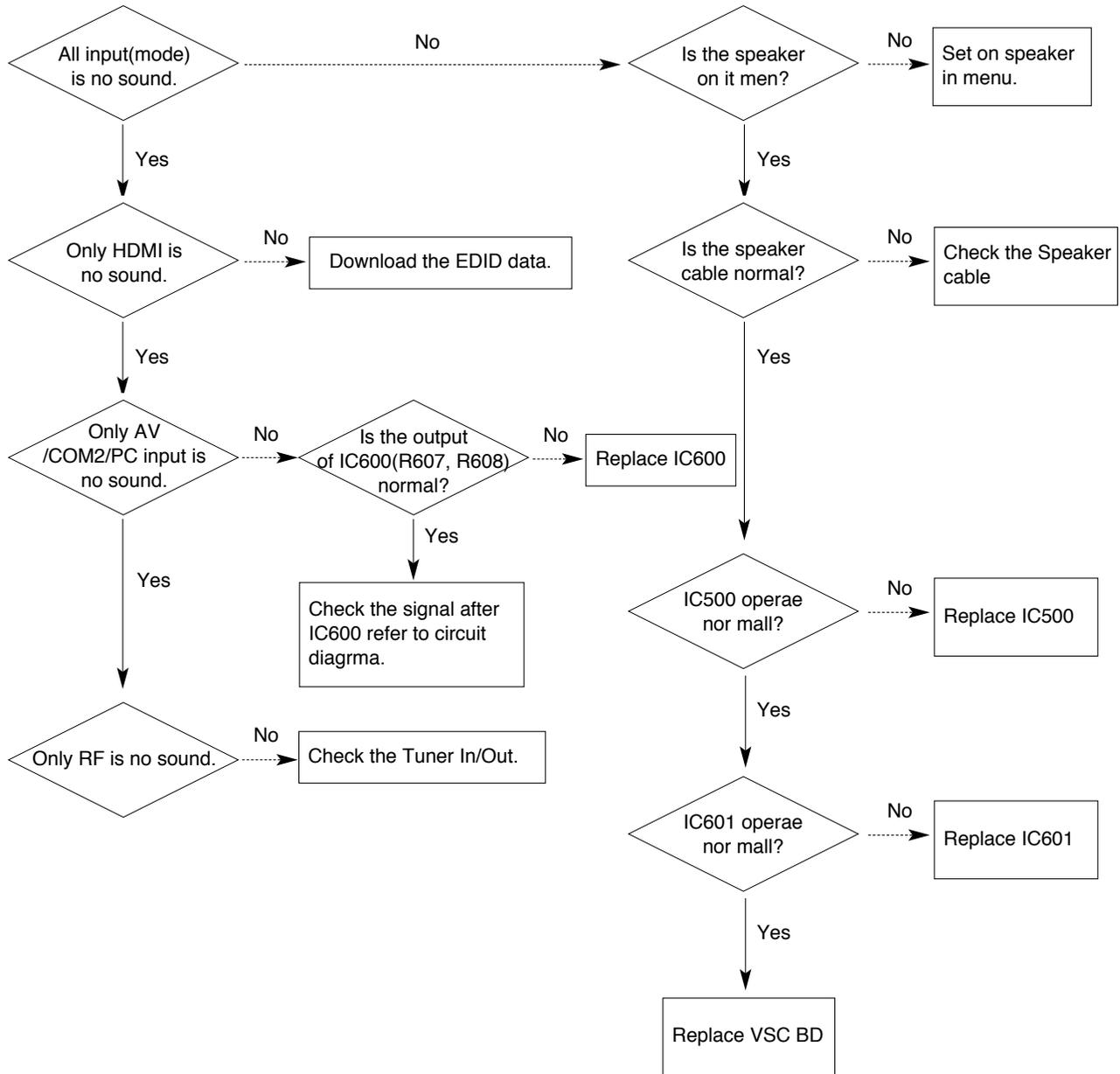


14. No Sound

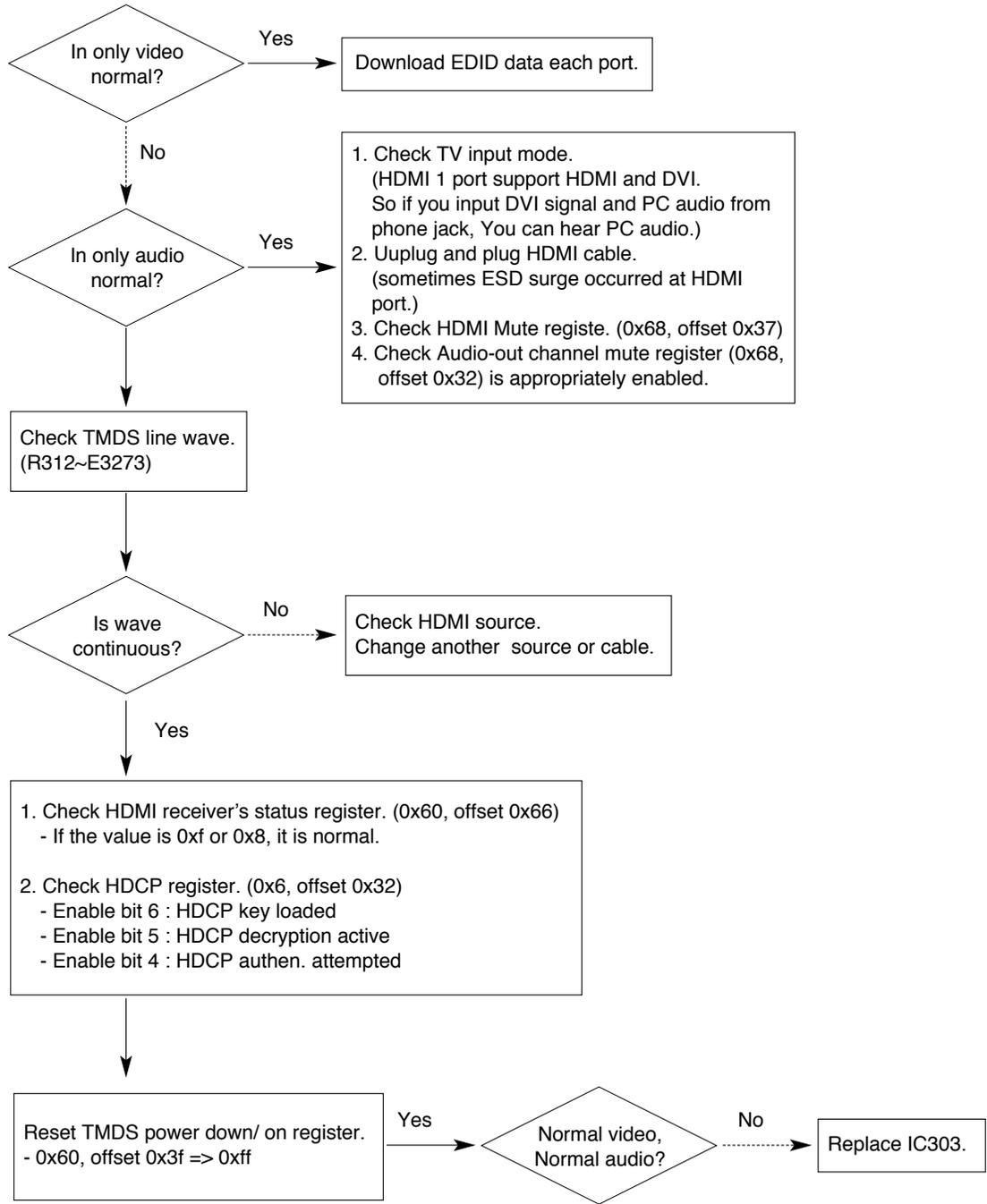
(1) Symptom

- 1) LED is green.
- 2) Screen display but sound is not output.

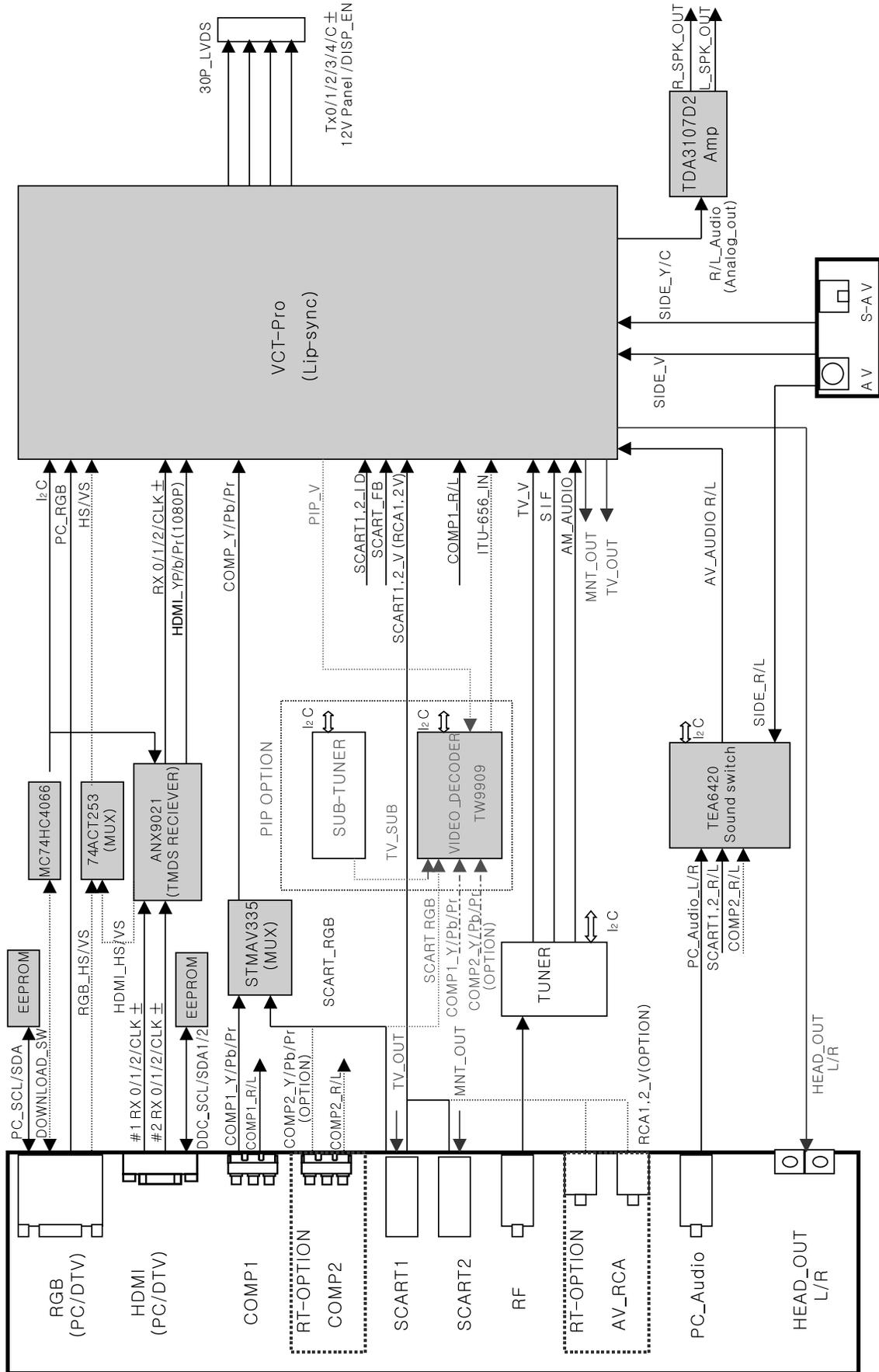
(2) Check following



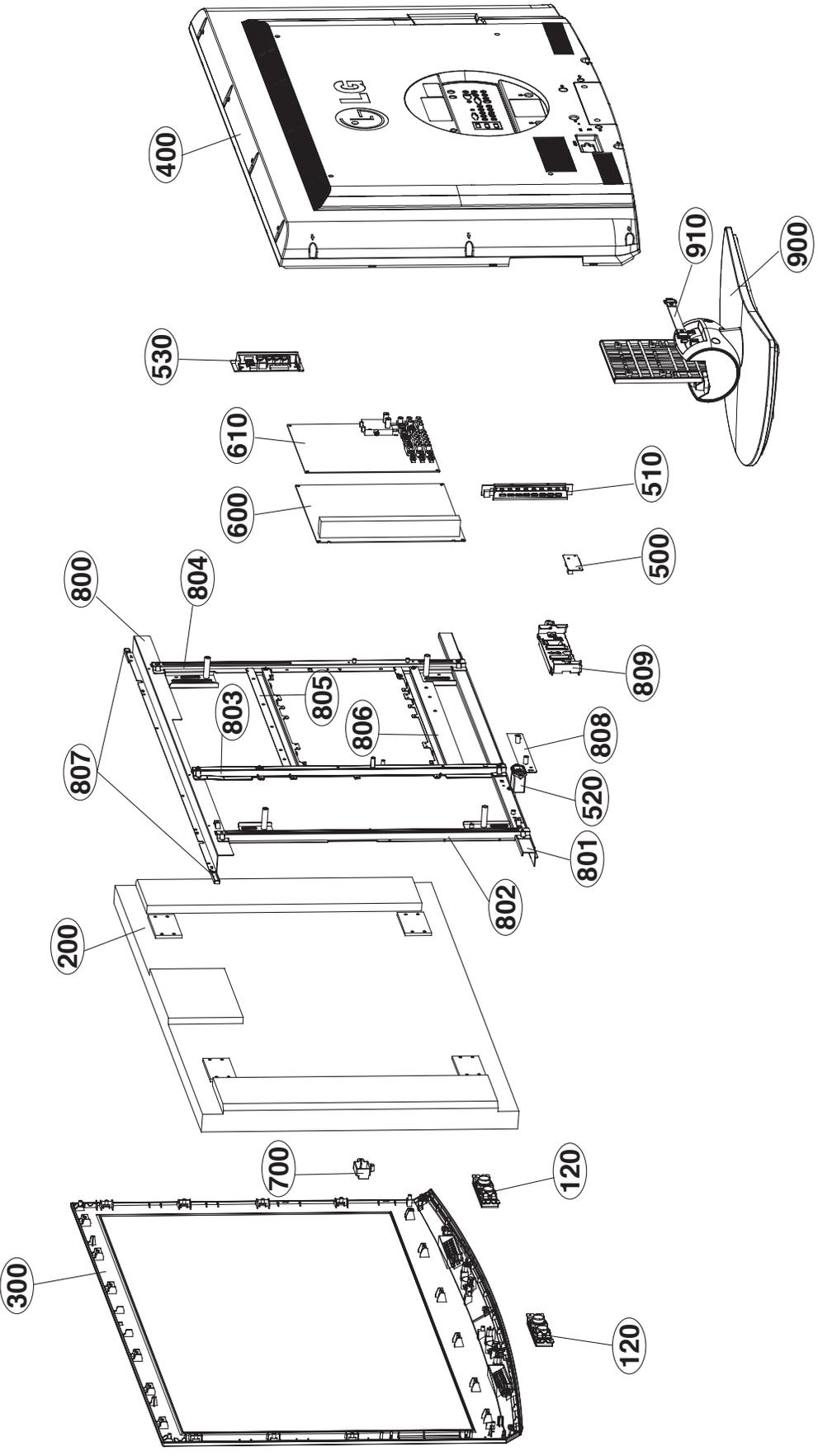
15. HDMI mode



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION	
	120	EAB37526301	Speaker,Full Range, C103A02K1400 ND 7W 8OHM 81DB 160HZ 122
⚠	200	EAJ36547901	LCD,Module-TFT, LC420WX6-SLA2 WXGA 42INCH 1366X768 500CD COLOR 72% 16/9 1000:1(DCR 5000:1) 5ms(GTG),Zero RT Pol. 10000K LG PHILIPS LCD
⚠	300	ABJ32993203	Cabinet Assembly, 42LB9 LA73A 42" EVE_AUS CABINET ASSEMBLY
⚠	400	ACQ33924403	Cover Assembly,Rear, 42LB9R-TD IP78A 42" 42" H4_BACK COVER ASSEMBLY FOR CENTRAL ASIA
	500	EBR38690201	PCB Assembly,Sub, SUB T.T LP78B 42LB9R - Pre amp (600mm)
	510	EBR38131401	PCB Assembly,Sub, SUB T.T LP78A H4 LB9R Control . total
	520	EAM35501401	Filter,AC Line, IF3-N06CEWL1 5.3mH 250VAC 6A 0.22uF 1000pF UL/CSA/VDE/K HOUSING/RING BK DONG IL TECHNOLOGY LTD.
	530	EBR38686401	PCB Assembly,Sub, SUB T.T LP78B 42LB9R - NON-EU SIDE AV Total
⚠	600	EAY38639601	Power Supply Assembly, LGLP42SLP 42INCH Tornado_42_10000:1 LCD Yuyang, H&E Tornado 42inch LIPS Multi 10000:1 YUYANG TELECOM CO.,LTD
	610	EBR38690501	PCB Assembly,Main, MAIN T.T LP78A 42LB9R - NON-EU MAIN Total
	700	6500VR0003E	Sensor,Ambient Light, YGCA-T071C 12 HOUSING BK 26.4X20X26.4mm VOUT 5V(AT 80LUX) LG INNOTEK CO., LTD
	800	MJH37063701	Supporter, PRESS EGI 1t Supporter EGI , TOP BAR
	801	MGJ32902409	Plate, PRESS EGI 1.6 FRAME SBHG-A 42LB9
	802	MJH34248201	Supporter, PRESS EGI 1.2 GUIDE EGI METAL BAR LEFT FOR V668 MODULE
	803	MGJ32902714	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LB9D-DA METAL BAR CENTER FOR TAIWAN
	804	MGJ32902502	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LC4 METAL BAR RIGHT
	805	MGJ32902802	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LC4(D2A) METAL BAR SIDE TOP
	806	MGJ32902902	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LC4(D2A) METAL BAR SIDE BOTTOM
	807	MGJ38974302	Plate,Metal, PRESS SBHG 1.2T SUPPORTER EGI 42LB9 SUB TOP PIECE PRESS
	808	MJH34000503	Supporter, PRESS EGI 2 GUIDE EGI 42LB9 METAL STAND SUPPORTER
	809	MGJ38733402	Plate,Metal, PRESS EGI 1.0 SUPPORTER SECC 47LB9 STAND GUIDE PRESS
⚠	900	AAN32993602	Base Assembly, STAND 42LF75-ZD LA73A STAND BASE ASSY FOR NOBLR BLACK DECO RING
	910	ABA32985001	Bracket Assembly, STAND 32LB9D-UA LA73A 32LB9

REPLACEMENT PARTS LIST

DATE: 2007. 07. 12.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
ACCESSORY					
A1	MFL37396704	"Manual,Owners" PRINTING USER LP78A BR	C815	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A2	MKJ39170806	Remote Controller COMPLEX PA71A 50PBRT W	C816	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A21	3550V00590A	Cover MOLD ABS 50PC3DD-UE.AU	C820	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A3	6410TBW004A	Power Cord LP-61L+GFC18N+<B90A+LS	C821	0CE477WF6DC	"Capacitor,AL,Chip" MVK10TP16VC470M 470uF
A4	MES36332302	Indicator MOLD ABS LED&PRE AMP 3	C824	0CE476SF6DC	"Capacitor,AL,Chip" VMV476M016S0ANCO10 47u
A5	SAC30653105	Title LP78A H4 NEU all CD M	C825	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
CAPACITORS					
C1000	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C832	0CE107SF6DC	"Capacitor,AL,Chip" VMV107M016S0ANE010 100
C1002	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C640	0CE477BJ618	"Capacitor,AL,Radial" ESM477M035T1G5H20G 470
C1003	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C641	0CE477BJ618	"Capacitor,AL,Radial" ESM477M035T1G5H20G 470
C1006	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C100	0CH5101K416	"Capacitor,Ceramic,Chip" C2012C0G1H101JT 100pF
C1008	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C100	0CH5101K416	"Capacitor,Ceramic,Chip" C2012C0G1H101JT 100pF
C1009	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C1001	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C101	0CE476VF6DC	"Capacitor,AL,Chip" VGV476M016S0ANE010 47u	C1004	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C102	0CE476VF6DC	"Capacitor,AL,Chip" VGV476M016S0ANE010 47u	C1005	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C103	0CE476VF6DC	"Capacitor,AL,Chip" VGV476M016S0ANE010 47u	C1007	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C116	0CE227SF6DC	"Capacitor,AL,Chip" MVG6.3TP16VC220M 220uF	C101	0CH5101K416	"Capacitor,Ceramic,Chip" C2012C0G1H101JT 100pF
C117	0CE106SF6DC	"Capacitor,AL,Chip" VMV106M016S0ANB010 10u	C1010	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C120	0CE106SF6DC	"Capacitor,AL,Chip" VMV106M016S0ANB010 10u	C1011	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C206	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C1014	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C311	0CE106SH6DC	"Capacitor,AL,Chip" VMV106M025S0ANB010 10u	C1015	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C316	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C1016	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C318	0CE106SH6DC	"Capacitor,AL,Chip" VMV106M025S0ANB010 10u	C1017	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C403	0CE107SF6DC	"Capacitor,AL,Chip" VMV107M016S0ANE010 100	C1018	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C516	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 2	C1019	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C527	0CE335WK6D8	"Capacitor,AL,Chip" MVK4.0TP50VC3.3M 3.3uF	C1020	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C533	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 2	C1021	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C539	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1022	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C540	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1023	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C541	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1024	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C542	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1026	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C543	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1027	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C544	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1032	0CC220CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H220JT 22pF 5
C545	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C1033	0CC220CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H220JT 22pF 5
C574	0CE475WJ6DC	"Capacitor,AL,Chip" MVK4.0TP35VC4.7M 4.7uF	C104	0CH4471K416	"Capacitor,Ceramic,Chip" C2012C0G1H471JT 470pF
C601	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C105	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C609	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 2	C106	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C610	0CE475WJ6DC	"Capacitor,AL,Chip" MVK4.0TP35VC4.7M 4.7uF	C111	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF
C611	0CE475WJ6DC	"Capacitor,AL,Chip" MVK4.0TP35VC4.7M 4.7uF	C113	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF
C628	JCE8106J691	"Capacitor,AL,Chip" MVK5.0TP35VC10M 10uF 2	C114	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C647	0CE107WJ6DC	"Capacitor,AL,Chip" MVK10TP35VC100M 100uF	C115	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C701	0CE477WF6DC	"Capacitor,AL,Chip" MVK10TP16VC470M 470uF	C200	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C708	0CE226SF6DC	"Capacitor,AL,Chip" VMV226M016S0ANB010 22u	C201	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C801	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF	C204	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C807	0CE107WH6DC	"Capacitor,AL,Chip" MVK8.0TP25VC100M 100uF	C205	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C808	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C211	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C813	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C212	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
			C213	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
			C214	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C625	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C626	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C627	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C629	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C630	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C631	0CK105CF94A	"Capacitor,Ceramic,Chip" 0603F105Z160CT 1uF -20
C632	0CK224DK46A	"Capacitor,Ceramic,Chip" 0805B224J500CT 220nF 5
C633	0CK224DK46A	"Capacitor,Ceramic,Chip" 0805B224J500CT 220nF 5
C634	0CK224DK46A	"Capacitor,Ceramic,Chip" 0805B224J500CT 220nF 5
C635	0CK224DK46A	"Capacitor,Ceramic,Chip" 0805B224J500CT 220nF 5
C636	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C637	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C638	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C639	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C642	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C643	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C644	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C645	0CK105DK94A	"Capacitor,Ceramic,Chip" 0805F105Z500CT 1uF -20
C646	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -
C648	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C649	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C650	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -
C651	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C652	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C653	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C700	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%
C702	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C703	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C704	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C709	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C710	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C711	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C712	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C713	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C714	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C715	0CK225DH94A	"Capacitor,Ceramic,Chip" C2012Y5V225ZFT 2.2uF -
C804	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C805	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -
C809	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C810	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C811	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C812	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C814	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C818	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C819	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C822	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C823	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C826	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C827	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C829	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C831	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C833	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 1
C834	0CK475EF67A	"Capacitor,Ceramic,Chip" C3216X5R1C475MT 4.7uF
C835	0CK475EF67A	"Capacitor,Ceramic,Chip" C3216X5R1C475MT 4.7uF
C836	0CK226FF67A	"Capacitor,Ceramic,Chip" EMK325BJ226MM-T 22uF 2

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C837	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C838	0CK106EF56A	"Capacitor,Ceramic,Chip" C3216X7R1C106KT 10uF 1
C839	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10
C840	0CK272CK46A	"Capacitor,Ceramic,Chip" 0603B272J500CT 2.7nF 1
DIODES		
D803	0DR340009AA	"Diode,Schottky" MBRS340 525MV 40V 4A 0
D224	0DSIH00028A	"Diode,Switching" MC2838-T112-1 1.2V 75V
D300	0DSIH00028A	"Diode,Switching" MC2838-T112-1 1.2V 75V
D301	0DSIH00028A	"Diode,Switching" MC2838-T112-1 1.2V 75V
D302	0DSIH00028A	"Diode,Switching" MC2838-T112-1 1.2V 75V
D600	0DSIH00028A	"Diode,Switching" MC2838-T112-1 1.2V 75V
D100	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D101	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D101	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D102	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D102	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D102	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D103	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D103	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D104	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D104	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D106	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D108	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D112	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D200	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D201	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D202	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D203	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D204	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D205	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D206	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D207	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D208	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D209	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D210	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D211	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D212	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D213	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D214	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D215	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D216	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D217	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D218	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D219	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D220	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 1
D221	0DR050008AA	"Diode,TVS" SD05.TC - 6V 14.5V 24A
D700	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D701	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120
D801	0DZKE00048A	"Diode,Zener" KDZ8.2V 8.2V 7.7TO8.7V
ICs		
IC202	01STL00031A	IC Assembly MC74HC4066ADR2G MC74HC
IC807	EAN32724702	"IC,Analog Switch" STMAV340 4.0TO5.5V 5NS

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IC601	EAN35502001	"IC,Audio Amplifier" TPA3107D2 10TO26V 50mV	L509	6210TCE001B	"Filter,Bead" HH-1H3216-500JT 500HM
IC600	0IPRP00665A	"IC,Bus Controller" TEA6420D 8TO10.2V 8mA	L510	6210TCE001B	"Filter,Bead" HH-1H3216-500JT 500HM
IC203	0IFA742530B	"IC,CMOS" 74ACT253SC 4.5TO5.5V 0	L511	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC801	EAN35520901	"IC,DC,DC Converter" MP2355DN-LF-Z 4.75V ~	L512	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC200	0IMMRAL014D	"IC,EEPROM" AT24C02BN-SH-T 2KBIT 2	L602	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC302	0IMMRAL014D	"IC,EEPROM" AT24C02BN-SH-T 2KBIT 2	L603	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC304	0IMMRAL014D	"IC,EEPROM" AT24C02BN-SH-T 2KBIT 2	L608	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC501	0IMMRAL025A	"IC,EEPROM" AT24C32AN-10SU-2.7 32K	L609	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC303	0IPRP00735A	"IC,I/O Support Chip" ANX9021 3.3V 60u 17MHZ	L610	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)
IC802	0IPMG78341A	"IC,LDO Voltage Regulator" "AZ1085S-3.3TR/E1,LF 12"	L612	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)
IC803	0IPMG78341A	"IC,LDO Voltage Regulator" "AZ1085S-3.3TR/E1,LF 12"	L615	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)
IC805	EAN34140401	"IC,LDO Voltage Regulator" AZ1085S-1.8TRE1 1.238V	L617	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)
IC809	0IPMG00049A	"IC,LDO Voltage Regulator" AZ1117H-1.8TR/E1[H13A]	L618	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC500	EAN35336801	"IC,Video Processors" VCT7993P- FA-A1-H-000	L701	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC502	0IFA752700A	"IC,Voltage Detector" KA75270Z 2.55TO2.85V 0	L703	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC800	EAN32662801	"IC,Voltage Regulator" KA7809ERTM 35V to 40V	L704	6200J00005N	"Filter,Bead" HH-1M2012-121JT(H:1mm)
FILTERs & INDUCTORS			L705	6200J00005N	"Filter,Bead" HH-1M2012-121JT(H:1mm)
L100	0LC1032101A	"Inductor,Multilayer,Chip" FI-C3216-103KJT 10UH 1	L706	6200J00005N	"Filter,Bead" HH-1M2012-121JT(H:1mm)
L600	0LCML00020C	"Inductor,Multilayer,Chip" MLI-201212-100K 10UH 1	L800	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L601	0LCML00020C	"Inductor,Multilayer,Chip" MLI-201212-100K 10UH 1	L801	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L605	EAP32842807	"Inductor,Wire Wound,Chip" NR8040T330M 33UH 20% 2	L802	6210TCE001B	"Filter,Bead" HH-1H3216-500JT 500HM
L606	EAP32842807	"Inductor,Wire Wound,Chip" NR8040T330M 33UH 20% 2	L803	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L613	EAP32842807	"Inductor,Wire Wound,Chip" NR8040T330M 33UH 20% 2	L806	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L614	EAP32842807	"Inductor,Wire Wound,Chip" NR8040T330M 33UH 20% 2	L807	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L810	0LCTO00019A	"Inductor,Wire Wound,Chip" D75C-646CY-220M=P3 22U	L808	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
AL308	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	F1	6210VH0001A	"Filter,Ferrite Core" 6210VH0001A 50OHM 25MM
AL309	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	TRANSISTORS & FETs		
AL310	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	IC301	0TFTH80001A	FET SSM6N15FU N-CHANNEL MO
AL311	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	IC305	0TFTH80001A	FET SSM6N15FU N-CHANNEL MO
AL312	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	IC306	0TFTH80001A	FET SSM6N15FU N-CHANNEL MO
AL313	6210TCE002B	"Filter,Bead" HB-4M3216-121JT 120OHM	IC400	0TFTH80001A	FET SSM6N15FU N-CHANNEL MO
L100	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q700	EBK32753101	FET SI4925BDY P-CHANNEL MO
L1000	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q100	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L1001	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q101	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L1002	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q104	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L1003	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q106	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L101	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q109	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L102	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q110	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L103	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q200	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L107	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q201	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L108	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q202	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L200	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q203	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L201	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q204	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L202	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q205	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L203	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q206	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L204	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q401	0TR1H80002A	"TR,Bipolar" 2SA1530A-T112-1R PNP -
L205	6210TCE001A	"Filter,Bead" HB-1S2012-080JT 8OHM 2	Q404	0TR1H80002A	"TR,Bipolar" 2SA1530A-T112-1R PNP -
L314	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q500	0TR102009AM	"TR,Bipolar" KRA102S PNP -30V 0V -5
L315	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q501	0TR1H80002A	"TR,Bipolar" 2SA1530A-T112-1R PNP -
L400	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q502	0TR1H80002A	"TR,Bipolar" 2SA1530A-T112-1R PNP -
L401	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q503	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L501	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q504	0TR1H80002A	"TR,Bipolar" 2SA1530A-T112-1R PNP -
L503	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	Q600	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
L508	6210TCE001B	"Filter,Bead" HH-1H3216-500JT 500OHM	Q601	0TR1Y80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
Q602	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q603	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q701	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q800	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q801	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q803	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V
Q804	OTRIY80001A	"TR,Bipolar" 2SC3052 NPN 6V 50V 50V

RESISTORS

L710	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R1	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R100	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R100	0RH0332D622	"Resistor,Chip" MCR10EZHJ330 33OHM 5%
R1000	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R1001	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R1003	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R1005	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1006	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1007	0RJ1004D677	"Resistor,Chip" MCR03EZPJ105 1MOHM 5%
R101	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R101	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R101	0RH0752D622	"Resistor,Chip" MCR10EZHJ750 75OHM 5%
R1010	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R1011	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R1012	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R102	0RH1002D622	"Resistor,Chip" MCR10EZHJ103 10KOHM 5%
R102	0RH1101D622	"Resistor,Chip" MCR10EZHJ112 1.1KOHM 5
R102	0RH4700D622	"Resistor,Chip" MCR10EZHJ471 470OHM 5%
R102	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R103	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R103	0RH2203D622	"Resistor,Chip" MCR10EZHJ224 220KOHM 5
R103	0RH3301D622	"Resistor,Chip" MCR10EZHJ332 3.3KOHM 5
R103	0RH5100D622	"Resistor,Chip" MCR10EZHJ511 510OHM 5%
R103	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R104	0RH1002D622	"Resistor,Chip" MCR10EZHJ103 10KOHM 5%
R104	0RH4700D622	"Resistor,Chip" MCR10EZHJ471 470OHM 5%
R104	0RH9101D622	"Resistor,Chip" MCR10EZHJ912 9.1KOHM 5
R104	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R105	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R105	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R105	0RH1001D622	"Resistor,Chip" MCR10EZHJ102 1KOHM 5%
R105	0RH2203D622	"Resistor,Chip" MCR10EZHJ224 220KOHM 5
R106	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R106	0RH0332D622	"Resistor,Chip" MCR10EZHJ330 33OHM 5%
R106	0RH1101D622	"Resistor,Chip" MCR10EZHJ112 1.1KOHM 5
R106	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R107	0RH0752D622	"Resistor,Chip" MCR10EZHJ750 75OHM 5%
R107	0RH3301D622	"Resistor,Chip" MCR10EZHJ332 3.3KOHM 5
R107	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R108	0RH0332D622	"Resistor,Chip" MCR10EZHJ330 33OHM 5%
R108	0RH9101D622	"Resistor,Chip" MCR10EZHJ912 9.1KOHM 5
R108	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R109	0RH0752D622	"Resistor,Chip" MCR10EZHJ750 75OHM 5%
R109	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R110	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R110	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R113	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R120	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R122	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R133	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R141	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R148	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R149	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R150	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R151	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R152	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R154	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R161	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 00HM 5% 1
R162	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R165	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R168	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5%
R169	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5%
R172	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%
R2	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 00HM 5% 1
R200	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R201	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R202	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R203	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R204	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R205	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R206	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R207	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R208	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R209	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R211	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R212	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R213	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R216	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R219	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R220	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R221	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R222	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R223	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R225	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R226	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R227	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R228	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R229	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R230	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R231	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R232	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R233	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R234	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R235	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5
R241	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%
R242	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%
R243	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%
R244	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R245	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R246	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%

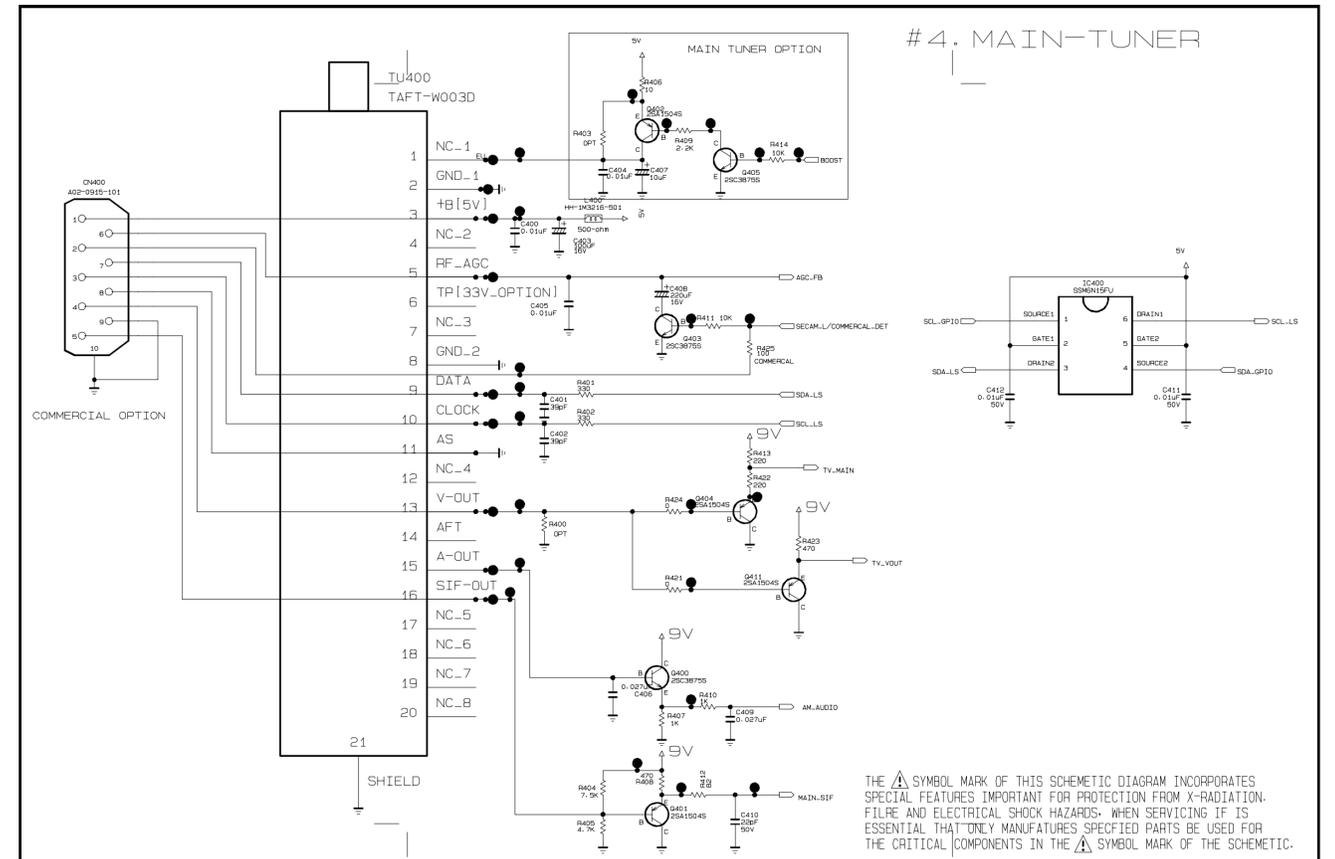
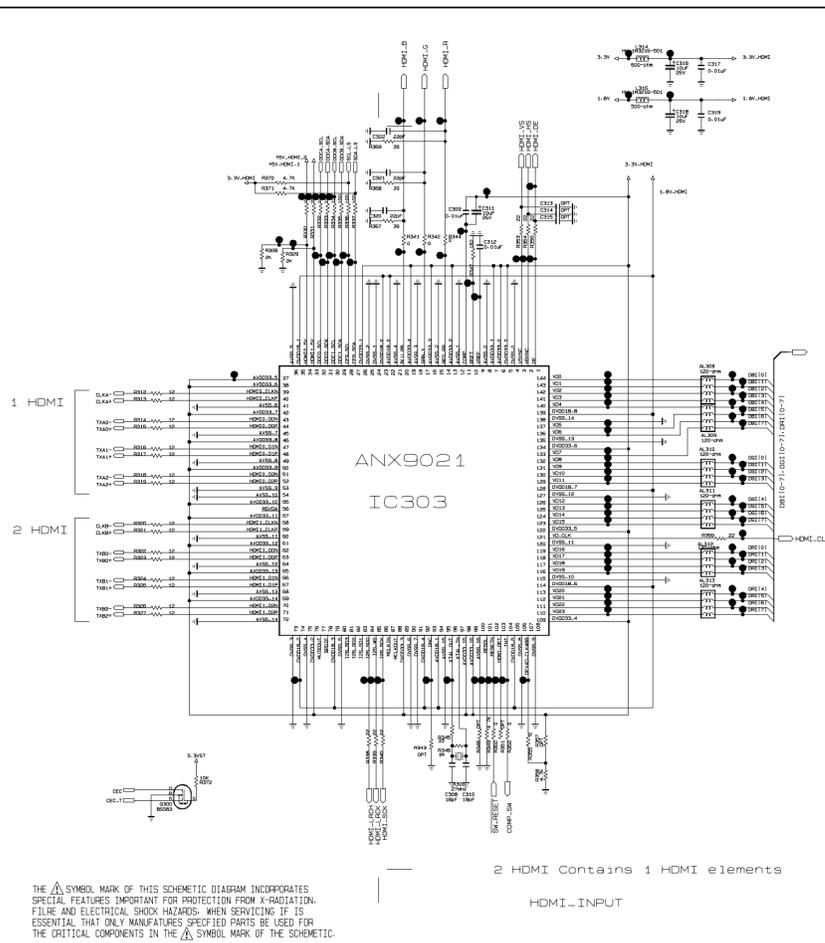
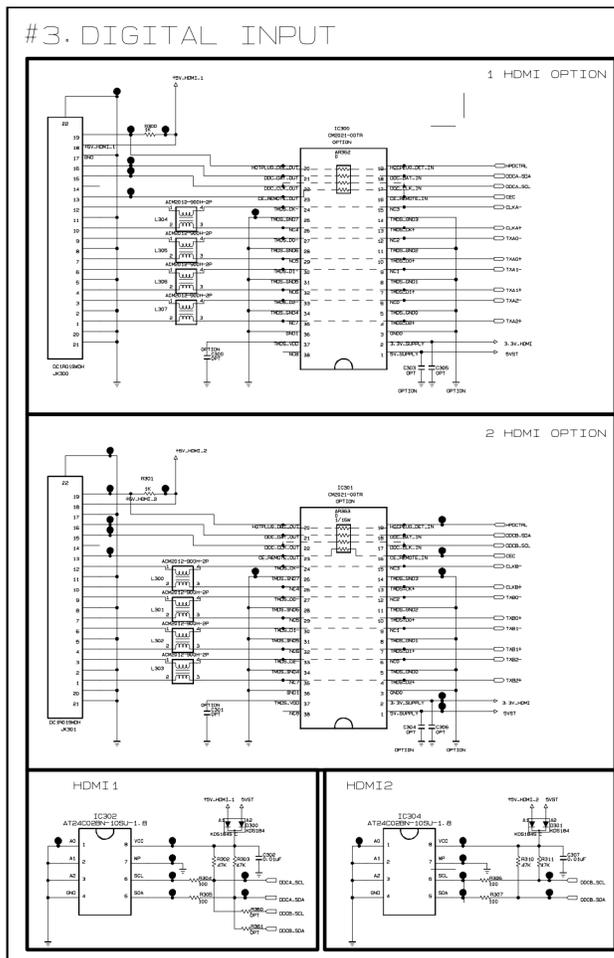
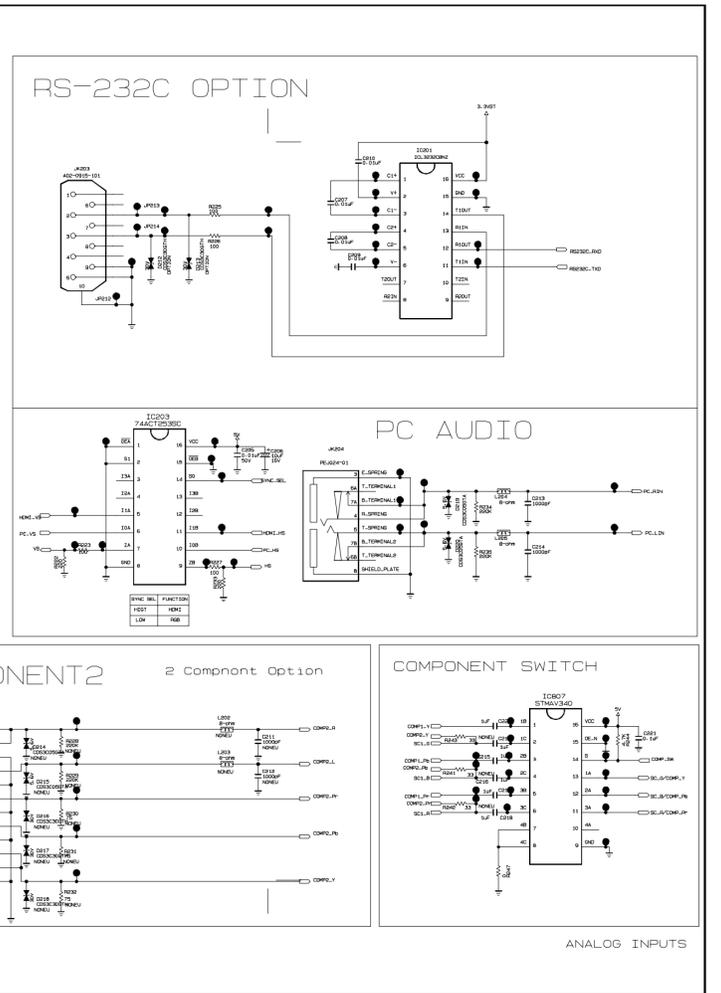
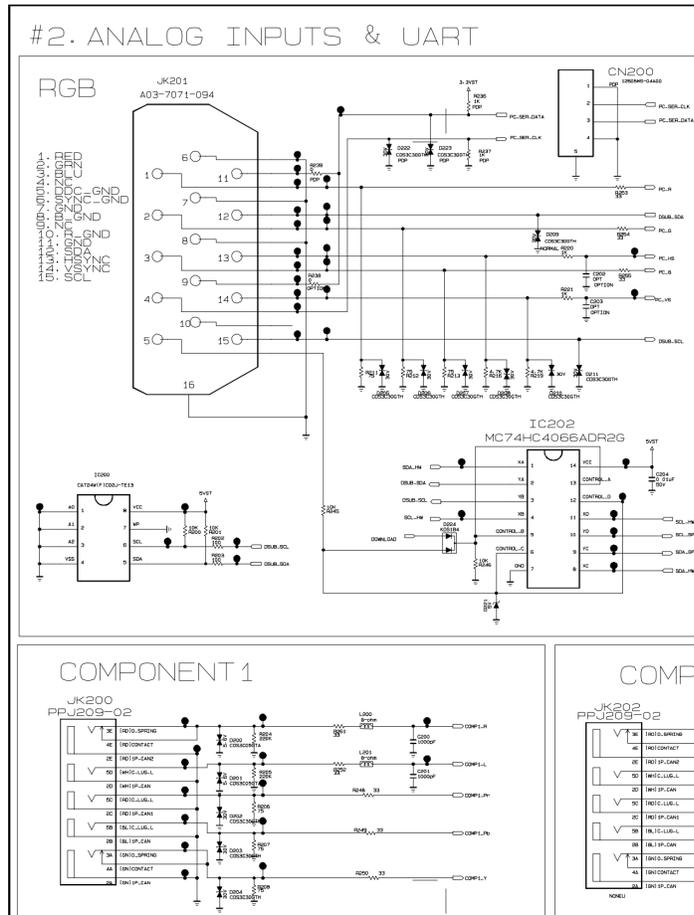
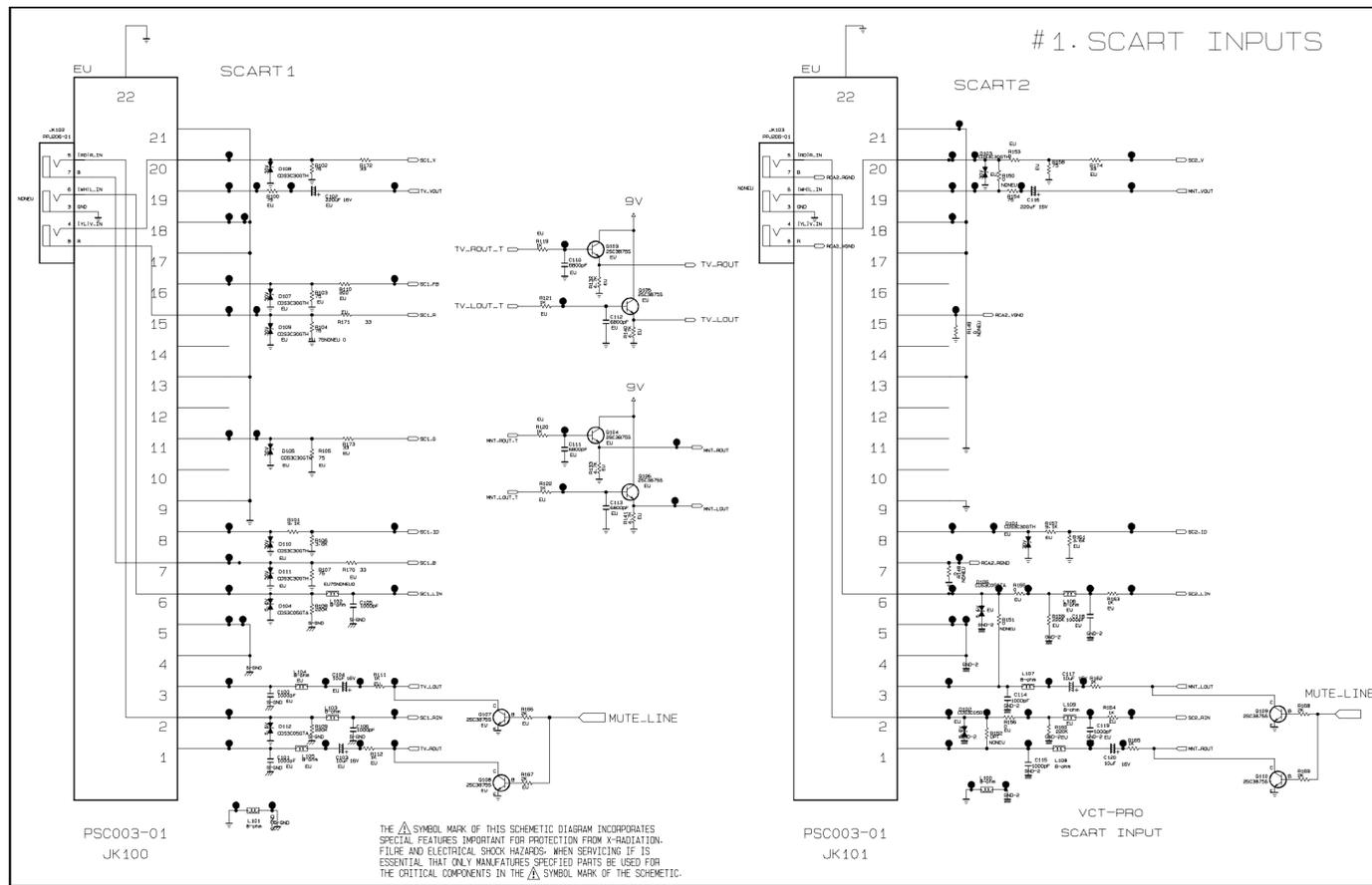
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R247	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1	R328	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5%
R248	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R329	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5%
R249	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R330	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R250	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R331	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R251	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R332	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R252	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R333	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R253	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R334	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R254	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R335	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R255	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%	R336	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R256	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R337	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R257	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R338	0RJ0682D677	"Resistor,Chip" MCR03EZPJ680 68OHM 5%
R258	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R339	0RJ0682D677	"Resistor,Chip" MCR03EZPJ680 68OHM 5%
R259	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R340	0RJ0682D677	"Resistor,Chip" MCR03EZPJ680 68OHM 5%
R260	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R341	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R261	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R342	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R262	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R344	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R263	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R345	0RJ0332D677	"Resistor,Chip" MCR03EZPJ330 33OHM 5%
R264	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R346	0RJ1004D677	"Resistor,Chip" MCR03EZPJ105 1MOHM 5%
R265	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R347	0RJ3300D677	"Resistor,Chip" MCR03EZPJ331 330OHM 5%
R266	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R349	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R267	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R350	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R268	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R352	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R269	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R353	0RJ0222D677	"Resistor,Chip" MCR03EZPJ220 22OHM 5%
R270	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R354	0RJ0222D677	"Resistor,Chip" MCR03EZPJ220 22OHM 5%
R271	0RJ1502D677	"Resistor,Chip" MCR03EZPJ153 15KOHM 5%	R355	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R272	0RJ6801D677	"Resistor,Chip" MCR03EZPJ682 6.8KOHM 5	R356	0RJ0222D677	"Resistor,Chip" MCR03EZPJ220 22OHM 5%
R273	0RJ2201D677	"Resistor,Chip" MCR03EZPJ222 2.2KOHM 5	R358	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R3	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1	R359	0RJ0222D677	"Resistor,Chip" MCR03EZPJ220 22OHM 5%
R300	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%	R361	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R301	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%	R362	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R302	0RJ4702D677	"Resistor,Chip" MCR03EZPJ473 47KOHM 5%	R363	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R303	0RJ4702D677	"Resistor,Chip" MCR03EZPJ473 47KOHM 5%	R364	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R304	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%	R365	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R305	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%	R366	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R306	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%	R367	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5%
R307	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%	R368	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5%
R308	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	R369	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5%
R310	0RJ4702D677	"Resistor,Chip" MCR03EZPJ473 47KOHM 5%	R370	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R311	0RJ4702D677	"Resistor,Chip" MCR03EZPJ473 47KOHM 5%	R371	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R312	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R4	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1
R313	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R401	0RJ3300D677	"Resistor,Chip" MCR03EZPJ331 330OHM 5%
R314	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R402	0RJ3300D677	"Resistor,Chip" MCR03EZPJ331 330OHM 5%
R315	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R403	0RJ0000G676	"Resistor,Chip" MCR18EZHJ00 0OHM 5% 1/
R316	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R404	0RJ7501D677	"Resistor,Chip" MCR03EZPJ752 7.5KOHM 5
R317	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R405	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5
R318	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R408	0RJ4700D677	"Resistor,Chip" MCR03EZPJ471 470OHM 5%
R319	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R412	0RJ0822D677	"Resistor,Chip" MCR03EZPJ820 82OHM 5%
R320	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R413	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R321	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R422	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R322	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R424	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1
R323	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R5	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1
R324	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R503	0RJ2000D477	"Resistor,Chip" MCR03EZPF201 200OHM 1%
R325	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R504	0RJ1500D677	"Resistor,Chip" MCR03EZPJ151 150OHM 5%
R326	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R505	0RJ4700D677	"Resistor,Chip" MCR03EZPJ471 470OHM 5%
R327	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5%	R506	0RJ1500D677	"Resistor,Chip" MCR03EZPJ151 150OHM 5%

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R723	0RJ2002D677	"Resistor,Chip" MCR03EZPJ203. 20KOHM 5
R725	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R726	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R8	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 OOHM 5% 1
R802	0RJ3302D677	"Resistor,Chip" MCR03EZPJ333 33KOHM 5%
R806	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5%
R807	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 OOHM 5% 1
R808	0RJ2000D677	"Resistor,Chip" MCR03EZPJ201 200OHM 5%
R809	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 OOHM 5% 1
R811	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5%
R812	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R814	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R815	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R817	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R818	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R821	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R823	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R825	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R826	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5%
R827	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R828	0RJ1201D677	"Resistor,Chip" MCR03EZPJ122 1.2KOHM 5
R831	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 OOHM 5% 1
R832	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 OOHM 5% 1
R833	0RJ6802D677	"Resistor,Chip" MCR03EZPJ683 68KOHM 5%
R834	0RJ2202D677	"Resistor,Chip" MCR03EZPJ223 22KOHM 5%
R835	0RJ7501D677	"Resistor,Chip" MCR03EZPJ752 7.5KOHM 5

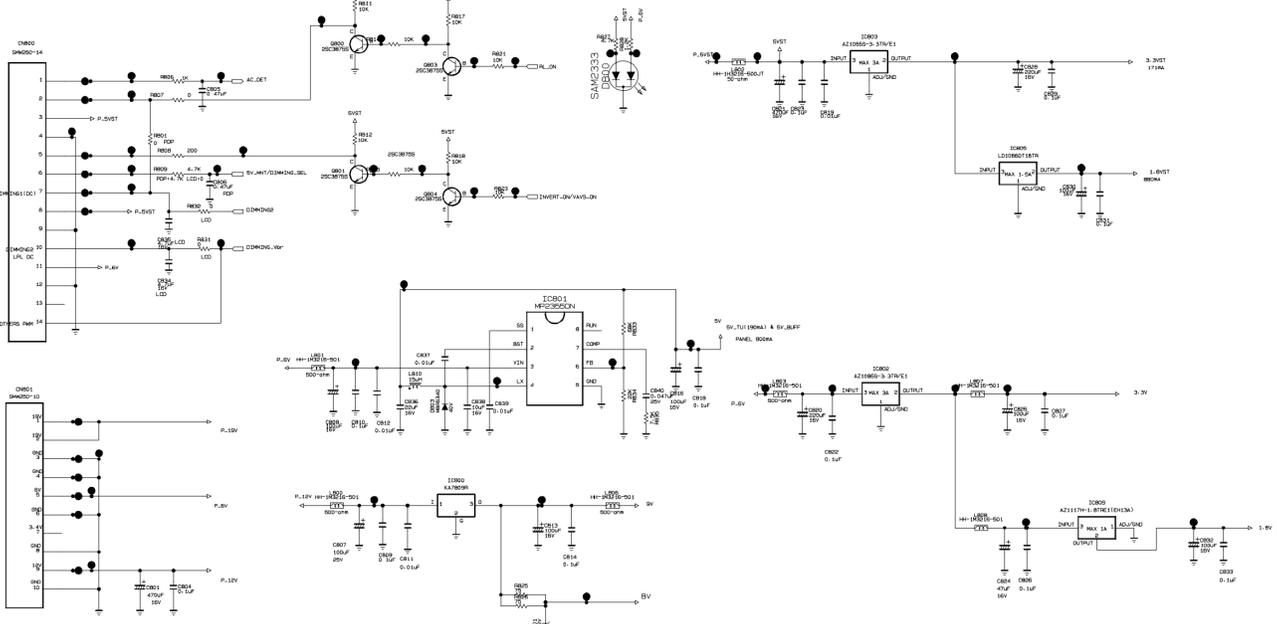
OTHERs

X1100	6202TST001H	Crystal SX-1 27MHZ 30PPM 27MHZ
X300	6202TST001H	Crystal SX-1 27MHZ 30PPM 27MHZ
X500	6202VDT002P	Crystal HC-49/SM 20.25000MHZ 2
J100	6612J10033A	"Jack,Complex" PMJ016-13 13P DIN/RCA
JK300	6612B00015B	"Jack,DIN" DC1R019WDH SOCKET 21P
JK301	6612B00015B	"Jack,DIN" DC1R019WDH SOCKET 21P
JK204	6612F00099A	"Jack,Phone" PEJ024-01 1P 4P STRAIG
JK102	6612J10003Y	"Jack,RCA" PPJ216-01 14.0MM 1RX3C
JK103	6612J10003M	"Jack,RCA" PPJ206-01 14.0MM 1RX3C
JK200	6612J10031A	"Jack,RCA" PPJ209-02 14.0MM 1RX5C
JK202	6612J10031A	"Jack,RCA" PPJ209-02 14.0MM 1RX5C
JK600	6612J10043A	"Jack,RCA" PPJ200-07 15MM 1RX4C A
D800	0DL233309AC	"LED,Chip" SAM2333 RED/Y-GREEN 2.
D100	0DLBE0138AA	"LED,DIP" BL-BUBGE301 ROUND 3MM
IC100	6712000013A	Receiver Module TSOP4438SO1 4.5TO5.5V
SW1	SAA30955104	"S/W,Firmware" 3.17 7773 WORLD WIDE F
SW101	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW102	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW103	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW104	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW105	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW106	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW107	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
SW108	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC
TU400	EBL35311203	"Tuner,Tuner/Modulator" TAFT-Z003D PAL-G+I+K/N

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CONNECTOR		
JK201	6630TGA004K	"Connector,DSUB" KCN-DS-1-0089 D-SUB 15
CN501	6602T25009B	"Connector,Wafer" SMAW250-03P 3P 2.50MM
CN600	6602T25008B	"Connector,Wafer" SMW250-03P 3P 2.50MM 1
CN601	6602T25008C	"Connector,Wafer" SMW250-04P 4P 2.50MM 1
CN700	6630VF00530	"Connector,Wafer" 12507WR-30A00 30P 1.25
CN702	6602T12004G	"Connector,Wafer" 12505WS-08A00 8P 1.25M
CN703	6602T20009L	"Connector,Wafer" SMAW200-12P 12P 2.00MM
CN800	6602T25008N	"Connector,Wafer" SMW250-14P 14P 2.50MM
CN801	6602T25008J	"Connector,Wafer" SMW250-10P 10P 2.50MM
P100	6602T12005G	"Connector,Wafer" 12505WR-08A00 8P 1.25M
P100	6602T20009C	"Connector,Wafer" SMAW200-04P 4P 2.00MM
P101	6602T20009C	"Connector,Wafer" SMAW200-04P 4P 2.00MM
P101	6602T20009L	"Connector,Wafer" SMAW200-12P 12P 2.00MM
C1	6631900012E	"Harness,Single" SMH250 SMH250 300MM 2.
C2	6631900013N	"Harness,Single" 6631900013N SMH200 SMH
C3	6631T20033J	"Harness,Single" SMH200-4P SMH200-4P 30
C4	6631T25023X	"Harness,Single" SMH250 35097_35098 600
C5	6631T25026B	"Harness,Single" 6631T25026B SMH250 350
C6	EAD35683003	"Harness,Single" LVDS LPL STD_300MM FI-
C7	EAD35908101	"Harness,Single" 35001HS-02L 65002HS-03
C8	EAD35908402	"Harness,Single" High Power cable(UL PV
C9	EAD35983001	"Harness,Single" 12507HS-04L SMH200 500
C10	EAD35983201	"Harness,Single" 12505HS 12505HS 600MM
C11	EAD36105801	"Harness,Single" SMH250-13 SMH250-14 40
C12	EAD36184801	"Harness,Single" SMH250 SMH250 400MM 2.

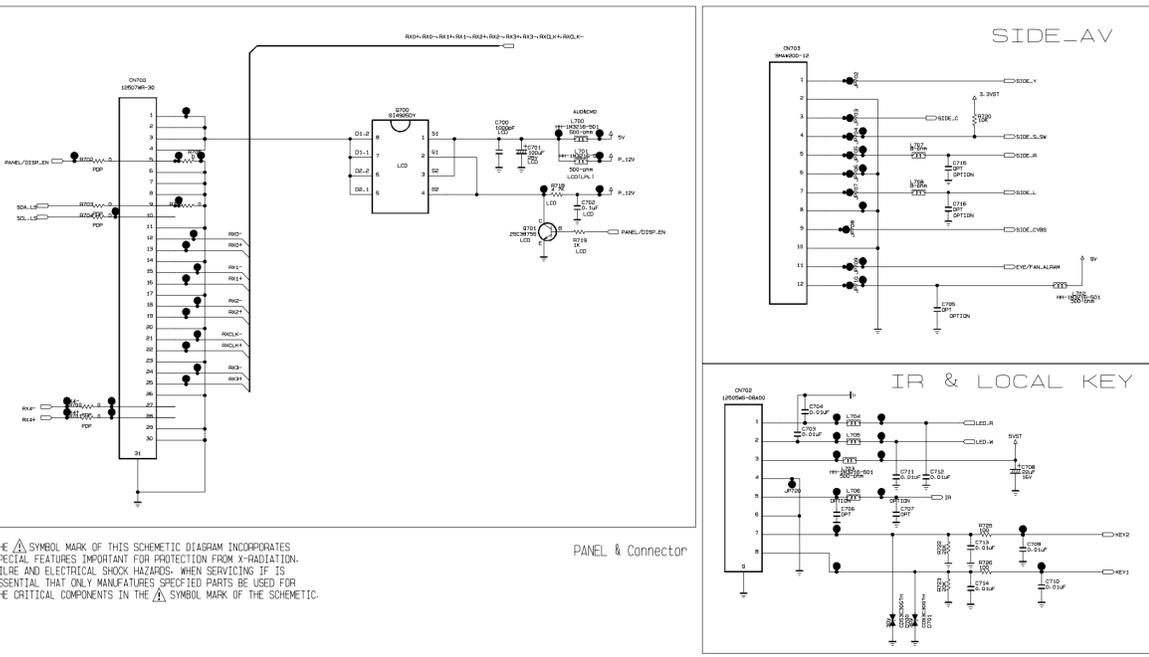


#8. POWER



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

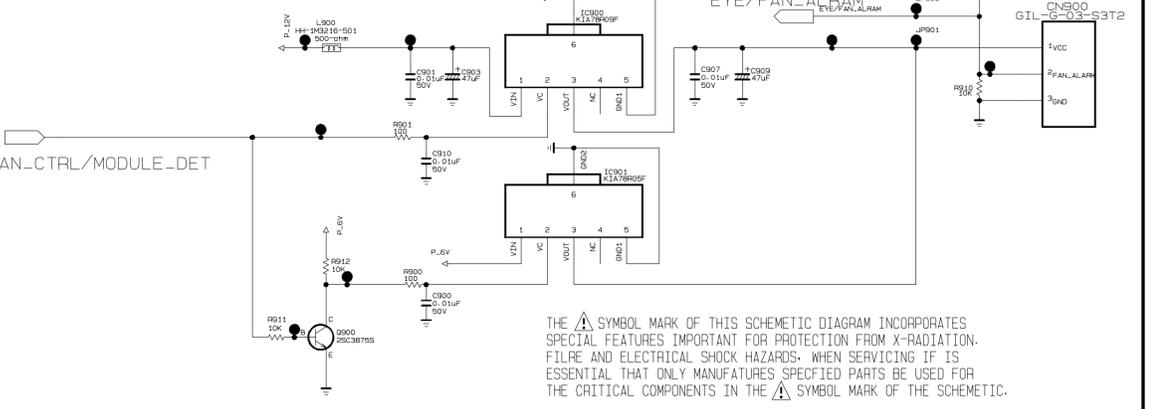
#7. PANEL LVDS



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

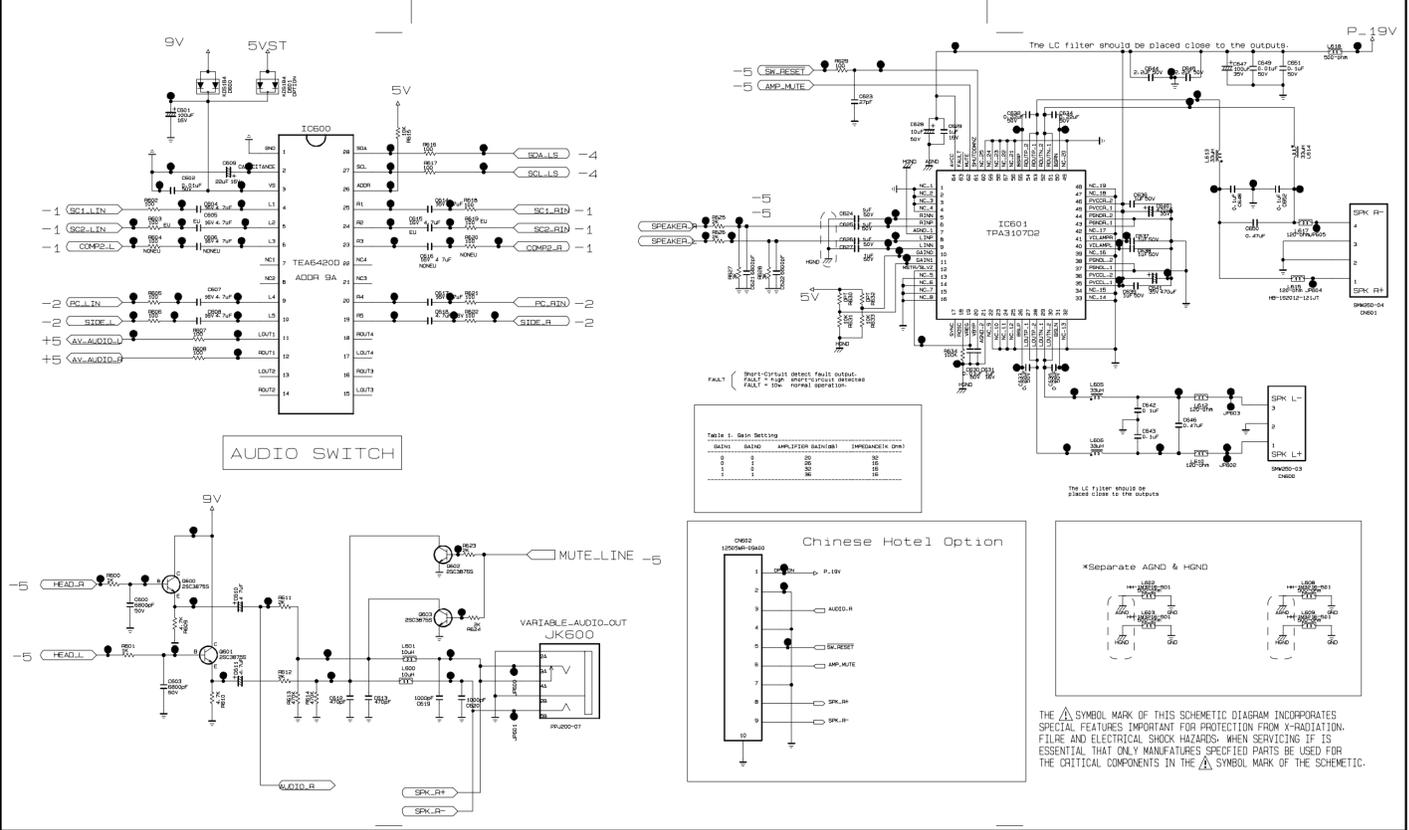
PANEL & Connector

#9. TEMP & FAN SENSORS



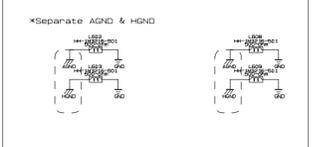
THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILTRATION AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.

#6. AUDIO



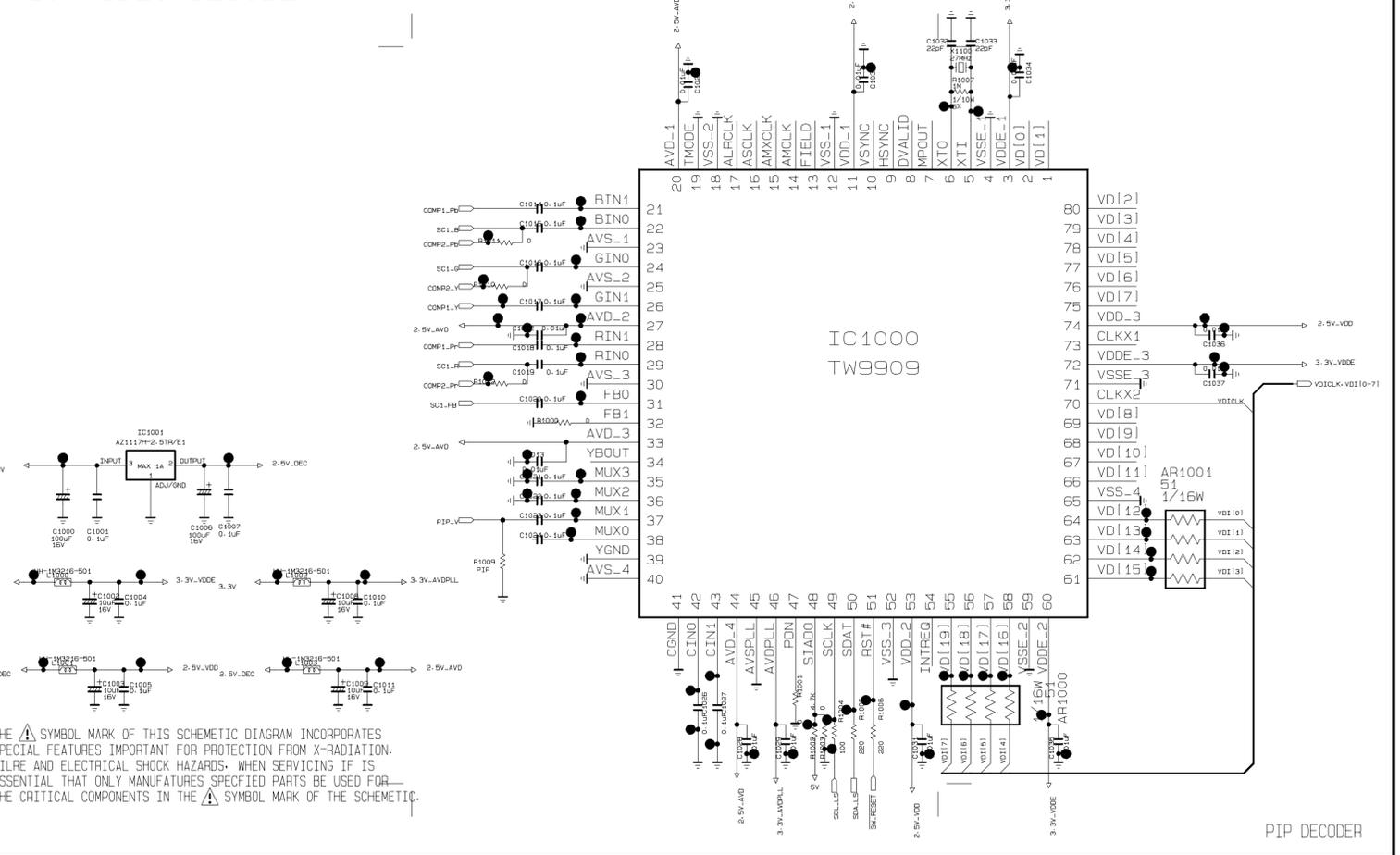
AUDIO SWITCH

Chinese Hotel Option



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

#10. VIDEO DECODER

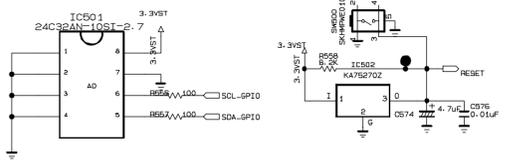
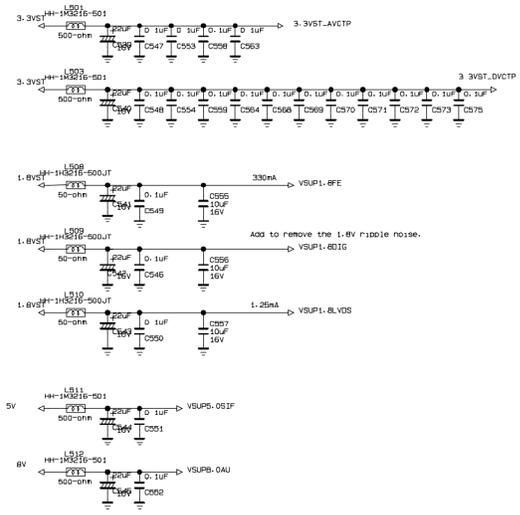
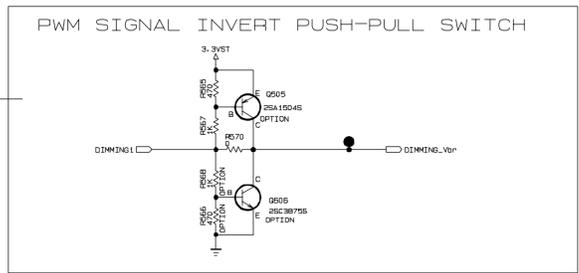
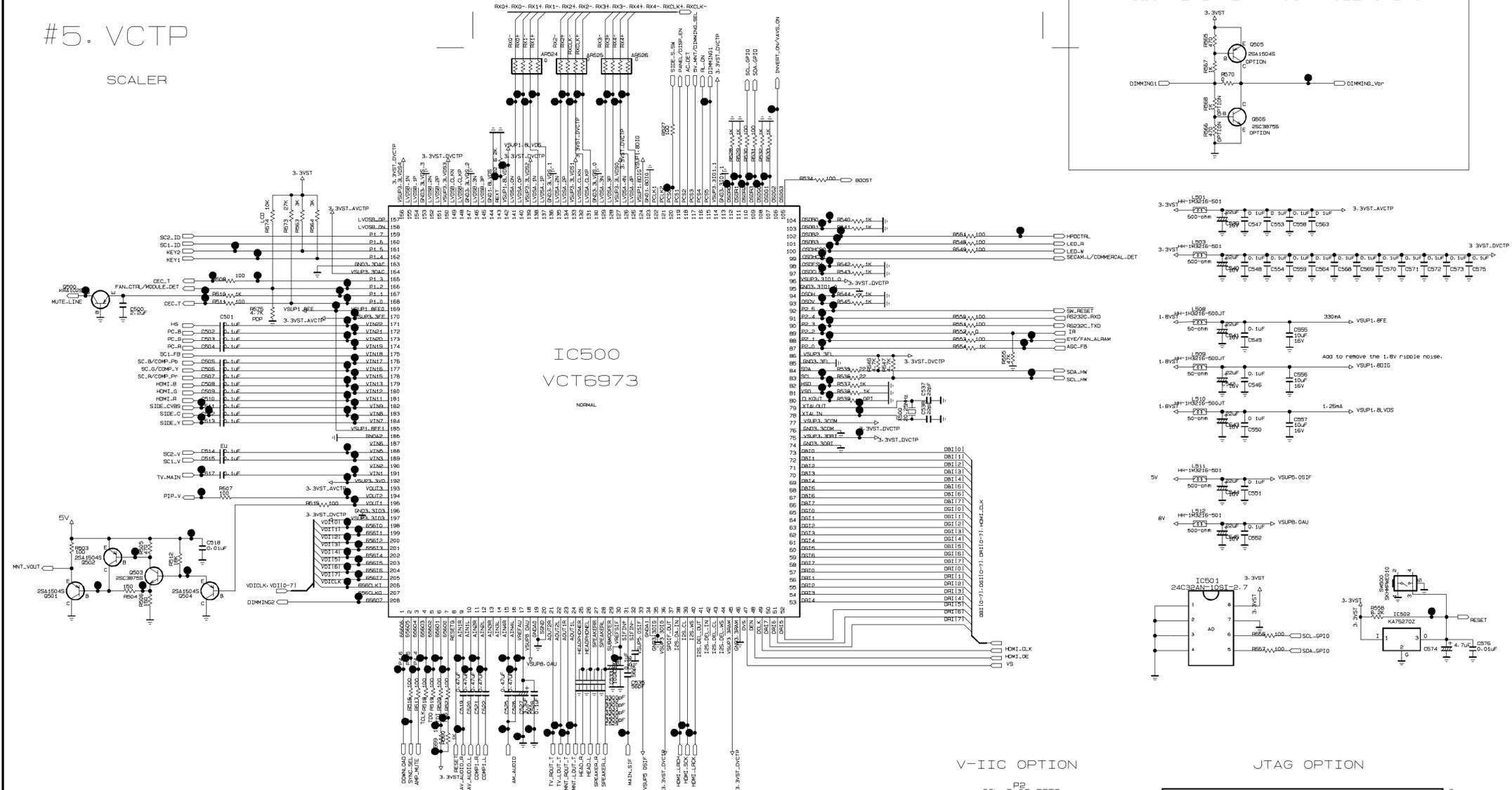


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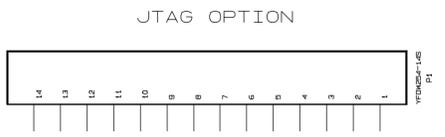
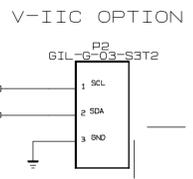
PIP DECODER

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

#5. VCTP SCALER



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





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