



website:<http://biz.LGservice.com>

PLASMA TV SERVICE MANUAL

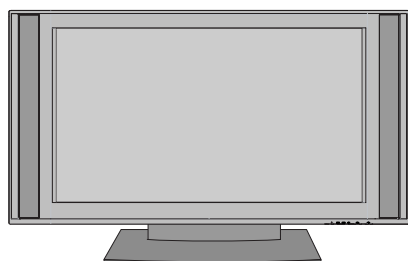
CHASSIS : PP78A

MODEL : 42PC7RV

42PC7RV-TA

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 X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

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

Leakage Current Cold Check(Antenna Cold Check)

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

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

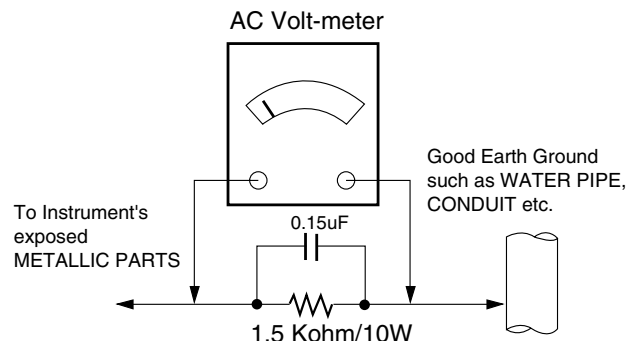
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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 is corresponds to 0.5mA.

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

Leakage Current Hot Check circuit



SPECIFICATIONS

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

■ Application Range

This spec is applied to the 42" PLASMA TV used PP78A Chassis.

Chassis	Model Name	Market	Brand	Remark
PP78A	42PC7RV-TA	Non EU	LG	

■ Specification

Each part is tested as below without special appointment.

- 1) Temperature : 25±5°C (77±9°F), CST : 40±5
- 2) Relative Humidity: 65±10%
- 3) Power Voltage: Standard Input voltage (100-240V~, 50/60Hz)
* Standard Voltage of each product is marked by models.
- 4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with SBOM.
- 5) The receiver must be operated for about 20 minutes prior to the adjustment.

■ Test Method

- 1) Performance : LGE TV test method followed.
- 2) Demanded other specification
Safety : CE, IEC specification
EMC : CE, IEC

Model	Market	Appliance	Remark
42PC7RV-TA	Non EU	Safety : IEC/EN60065, EMI : CISPR13	TEST

■ General Specification (42" WVGA Module with 40%)

No	Item	Specification	Remark
1	Display Screen Device	42" Wide Color Display Module	Plasma Display Panel
2	Aspect Ratio	16:9	
3	PDP Module	PDP42V8, RGB Closed Type	Film Filter
4	Operating Environment	1)Temp. : 0~40deg 2)Humidity : 0~85%	LGE SPEC.
5	Storage Environment	3)Temp. : -20~60deg 4)Humidity : 0~85%	
6	Input Voltage	100-240V~, 50/60Hz	Maker : LG

■ Module Specification

No	Item	Specification			Remark		
1	Market	Non EU					
2	Broadcasting system	PAL-BG/I/DK, NTSC					
3	Available Channel	BAND	PAL	NTSC		China(DK)	Australia(BG)
		VHF/UHF	C1~C69	2~83	VHF/UHF	C1~C62	C1~C75
		CATV	S1~S47	1~71	CATV	S1~S41	S2~S44
4	Receiving system	Upper Heterodyne					
5	SCART Jack(2EA)	PAL, SECAM, NTSC			REAR(1EA), SIDE(1EA)		
6	Video Input (1EA)	PAL, SECAM, NTSC			REAR(1EA)		
7	S-Video Input (1EA)	PAL, SECAM, NTSC			SIDE S-VIDEO		
8	Component Input (2EA)	Y/Cb/Cr, Y/Pb/Pr					
9	RGB Input(1EA)	RGB-PC					
10	HDMI Input(1EA)	HDMI-DTV					
11	Audio Input (5EA)	PC Audio, Component(1EA), AV (2EA), SIDE AV(1EA)			L/R Input		
12	Audio variable out(1EA)						

ADJUSTMENT INSTRUCTION

1. Application Object

These instructions are applied to all of the 42" PLASMA TV, PP78A Chassis.

2. Note

- (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.

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

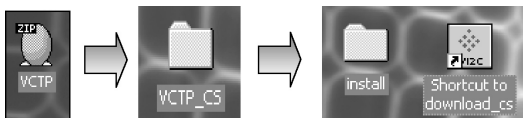
3.2. SET assembly adjustment items

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

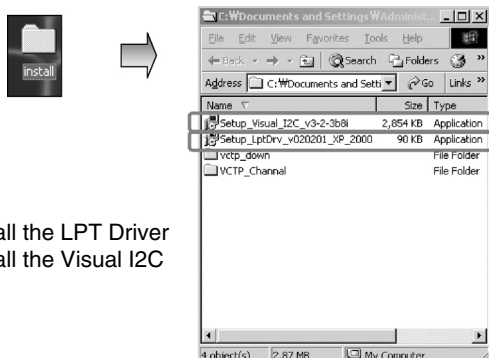
4. PCB assembly adjustment method (Using VCTP Download program)

4-1. Download program installation

- (1) Extract a Zip file.



- (2) Visual I2C & LPT Driver Installation.



Install the LPT Driver
Install the Visual I2C

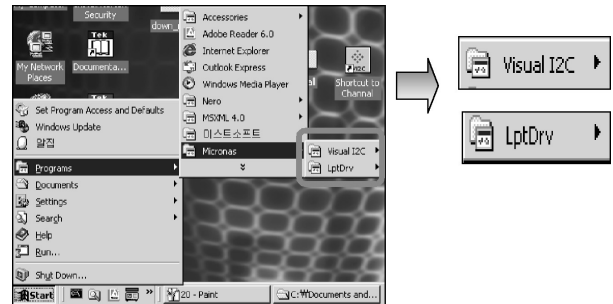
LPT Port Driver (LptDrv) Setups : Program Files > Micronas > Visual I2C > Port_Driver

*Use for Windows 95/98 : Setup_LptDrv_v0104_9x.exe

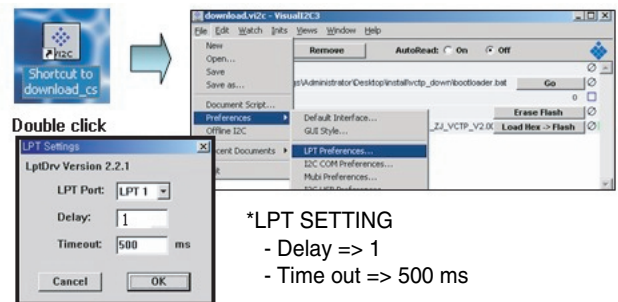
*Use for Windows 2000/XP : Setup_LptDrv_v0202_XP_2000.exe

*Use for Windows NT : Setup_LptDrv_v0104_NT.exe

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

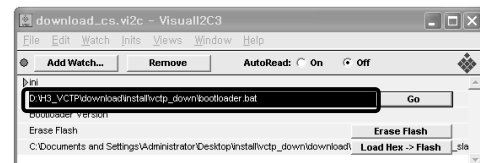


- (4) LPT delay setting.(File > Preference > LPT preferences)

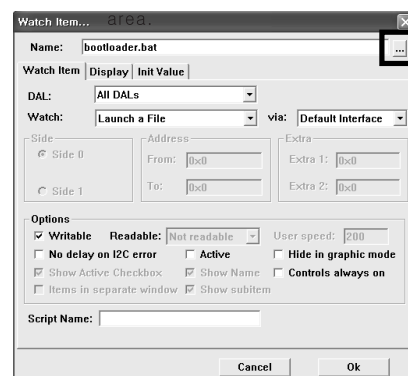


*LPT SETTING
- Delay => 1
- Time out => 500 ms

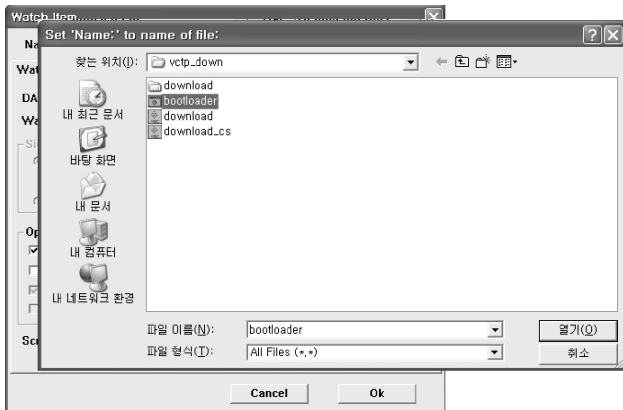
- (5) Exchange the "bootloader.bat" file.



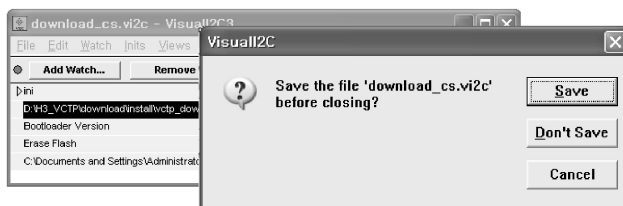
► Double click the Red



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)

5. S/W program download

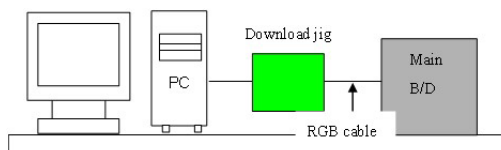
5-1. Profile

: This is for downloading the s/w to the flash memory of the vctp(IC500)

5-2. Required Test Equipment

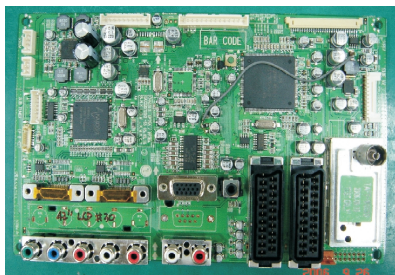
- (1) PC.
- (2) Visual IIC program.
- (3) Download jig.

5-3. Connection structure



6. Download method

6-1. Download method 1 (PCB Ass'y)



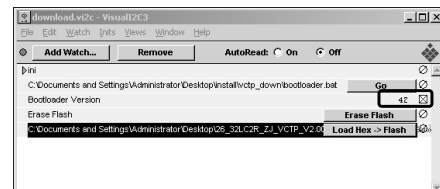
- (1) Connect the download jig to D-sub jack.
- (2) Execute 'Download.vi2c' program in PC, then a main window will be opened.



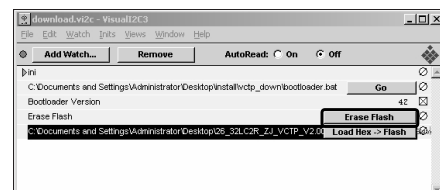
Double click



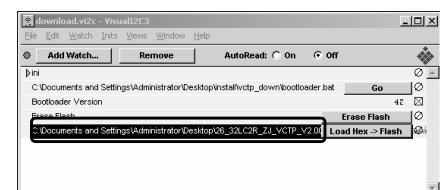
- (3) Double click the blue box and confirm "Bootloader Version" as 42.



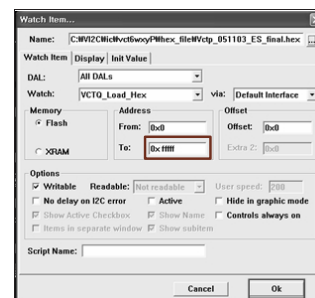
- (4) Click the "Erase Flash" button.



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

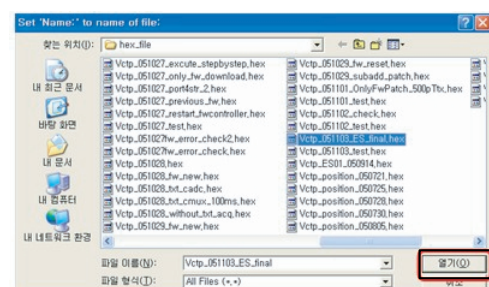


- (6) Click the choice button in the "edit window", then "file choice window" will be opened.

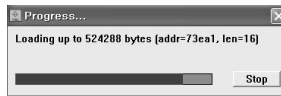


You must verify the words of "0xffff" in the black box of figure.
(In case of H3 Service it is 0x7fff : If you make H4 service after the H3 service, there could be some problem)

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

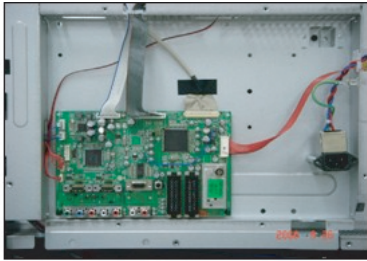


- (8) Click OK button at the "edit window".
- (9) Under Downloading process.



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

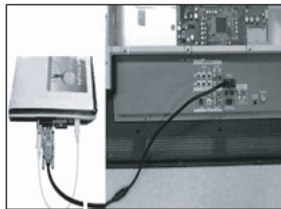
6-2.Download method 2 (AV Plate Ass'y)



- (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).

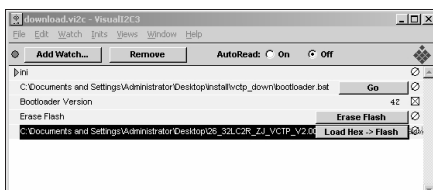


Push S/W

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



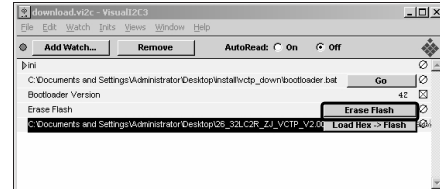
Double click



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



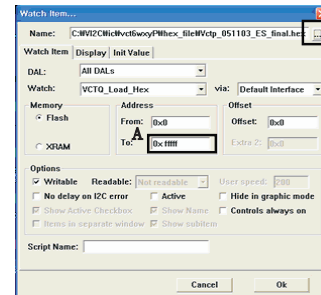
- (6) Click the "Erase Flash" button.



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

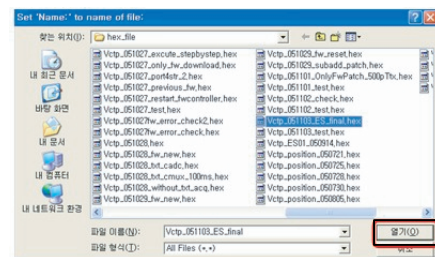


- (8) Chck the choice button I n the "edit window", then "file choice window' will be opened.

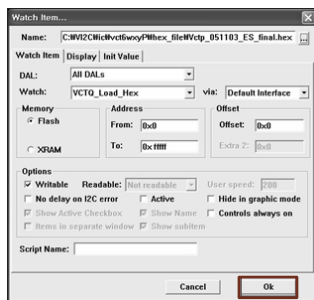


You must verify the words of "0xffff" in the black box(A) of figure. (In case of H3 Service it is 0x7ffff : If you make H4 service after the H3 service, there could be some problem)

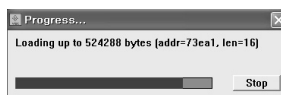
- (9) Click the "load > flash" button.
- (10) Choose the Hex file in folder and execute downloading with click "open button".



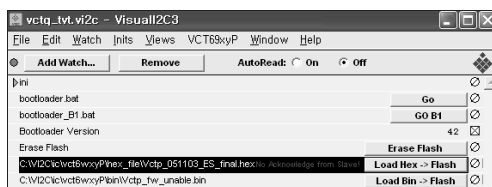
(11) Click OK button at the "edit window".



(12) Under Downloading progress.

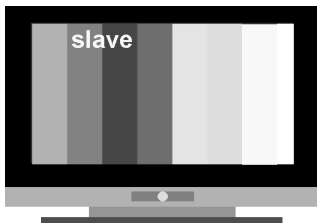


(13) If download is failed, for example "No acknowledge from slave", execute download again from (1).

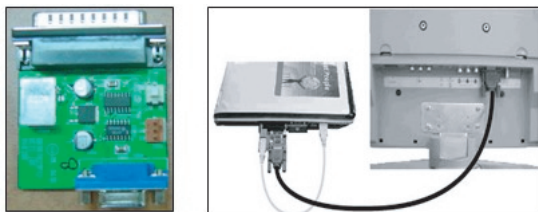


6-3.Download method 3 (SET)

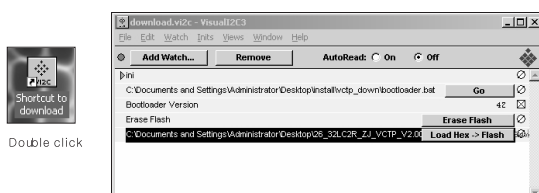
(1) Push the "Tilt" button in an Adjust Remocon Then the PLASMA TV will change a "slave mode".



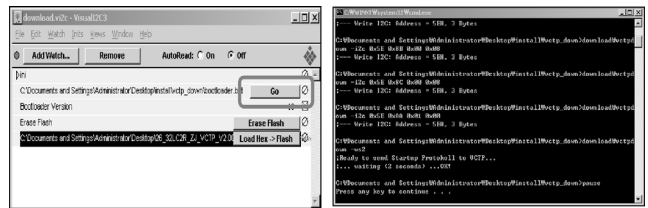
(2) Connect Zig to TV using a D-sub cable.



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



(4) Click "GO" button.

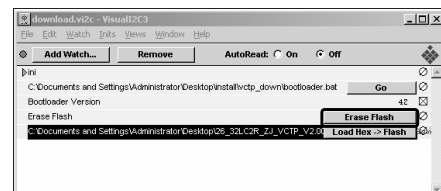


If you don't push the "go", the Hex file would not be downloaded although the download proceeds normally at first glance.

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



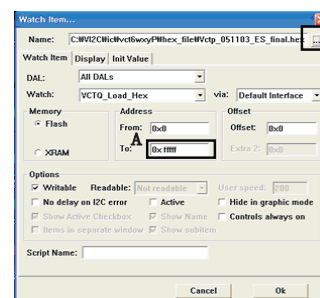
(6) Click the "Erase Flash" button.



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



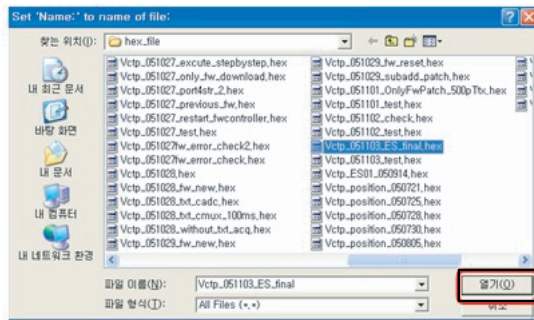
(8) Chlick the choice button I n the "edit window", then "file choice window" will be opened.



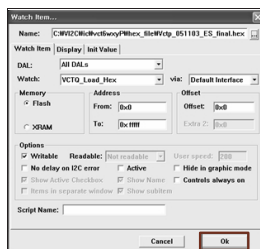
You must verify the words of "0xffff" in the black box(A) of figure. (In case of H3 Service it is 0x7ffff : If you make H4 service after the H3 service, there could be some problem)

(9) Click the "load > flash" button.

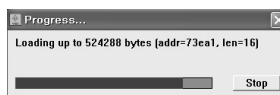
- (10) Choose the Hex file in folder and execute downloading with click "open button".



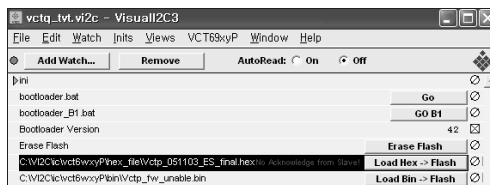
- (11) Click OK button at the "edit window".



- (12) Under Downloading progress.



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



7. Channel memory download

7-1. Profile

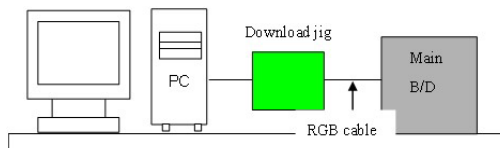
: This is for downloading the s/w to the flash memory of the vctq(IC500)

7-2. Required Test Equipment

- (1) PC.
- (2) Visual IIC program.
- (3) Download jig.

7-3. Connection structure

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



7-4. Connection condition

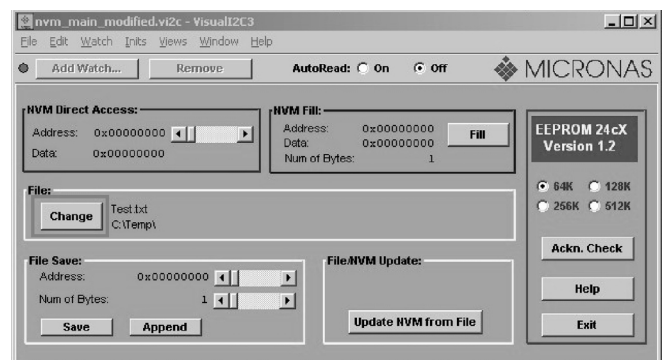
- (1) IC name and circuit number : VCTP and IC500.
- (2) Use voltage : 3.3V.
- (3) SCL : 15pin.
- (4) SDA : 12pin.
- (5) Tact time : about 3seconds.

7-5. Download method

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

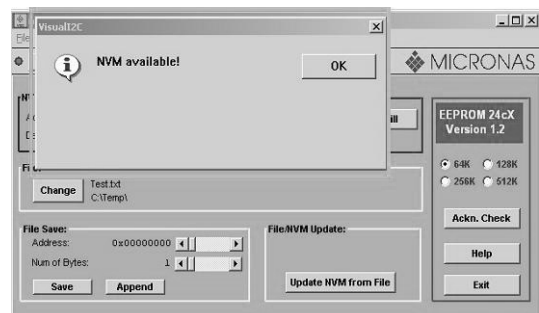


- (3) Push the button change and select the Channel memory data.

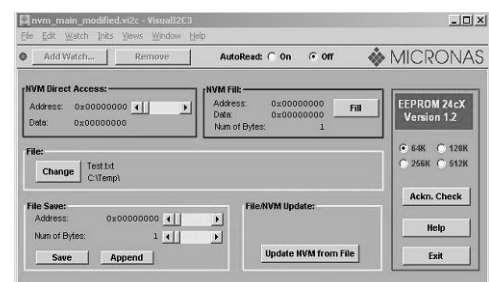


- (4) Check the communication is OK or not.

=> Push the Read area (Ackn. Check) and check Cyan area is OK message.



- (5) Push the update NVM from File



8. Tool Option Area Option Change

8-1. Profile

: Must be changed the option value because being different with some setting value depend on module, inch and market.

8-2. Required Test Equipment

1) Adjustment remocon.

8-3. Adjustment method

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			ZA	TA
42	VGA	PC5R	2244	4292
		PC6R	2500	4548
		PC7R	2756	4804
		PB3R	3012	5060

* After done all adjustments, Press ADJ button and compare Tool option and Area option value with its BOM, if it is correctly same then unplug the AC cable.
If it is not same, then correct it same with BOM and unplug AC cable.
For correct it to the model's module from factory JIG model.

9. Color carrier Adjustment (Inspection process)

9-1. Profile

: To have the margin about the deviation of colorcarrier to satisfy the spec.

9-2. Required Test Equipment

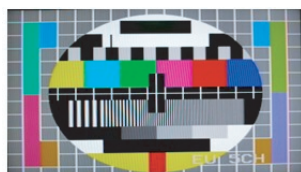
1) Adjustment remocon.
2) Pal RF signal.

9-3. Connection

: TV set should connected with the pal RF signal(EU 5CH).

9-4. Adjustment method

(1) tuning the RF signal
ZA, TA : PAL Philips Pattern (with Color Bar)
(2) push the "adj" key in the adjustment remocon.



Each PCB assembly must be checked by check JIG set.
(Because power PCB Assembly damages to PDP Module, especially be careful)

10. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage adjustments)

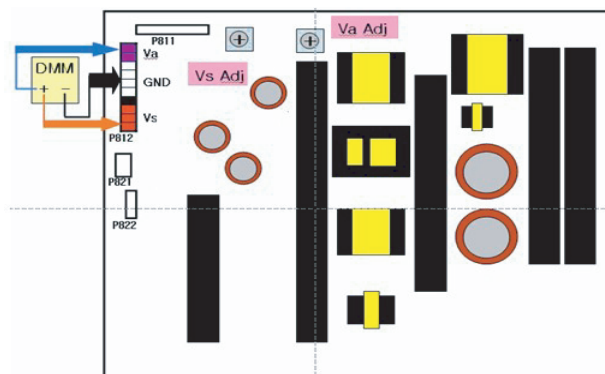
10-1. Profile

: To supply the Va, Vs voltage that the module want.

10-2. Required Test Equipment

(1) Stick for adjustment.
(2) DMM.

10-3. Connection structure



(Fig. 1) Connection Diagram of power adjustment for measuring.

10-4. Connection Diagram for Measuring

: refer to (Fig. 1)

10-5. Adjustment Method

(1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D. M..M. to Va pin of P812, connect -terminal to GND pin of P812.
3) After turning VR901, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (deviation; $\pm 0.5V$)

(2) Vs Adjustment

1) Connect + terminal of D. M..M. to Vs pin of P812, connect -terminal to GND pin of P812.
2) After turning VR951, voltage of D.M.M adjustment as same as Vs voltage which on label of panel right/top. (deviation ; $\pm 0.5V$)

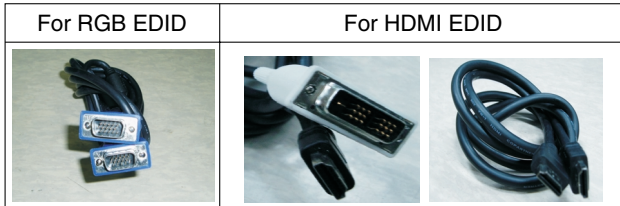
11. EDID(The Extended Display Identification Data) /DDC(Display Data Channel) download

11-1. Profile

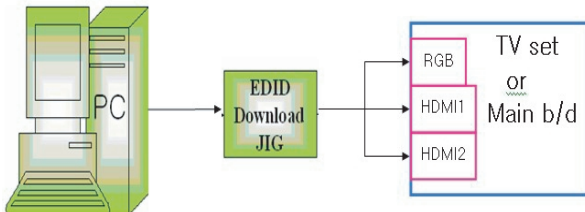
: To be possible for plug and play.

11-2. Required Test Equipment

- (1) Adjusting PC with S/W for writing EDID Data.
(S/W : EDID TESTER Ver.2.5)
- (2) A Jig for EDID Download.
- (3) Cable : Serial(9Pin or USB) to D-sub 15Pin cable, D-sub 15Pin cable, DVI to HDMI cable.



11-3. Connection structure



(Fig. 2) Connection Diagram of DDC download

* Caution

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

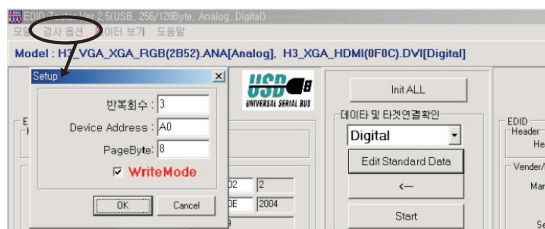
11-4. Preparation for Adjustment

- (1) As above (Fig. 2), Connect the Set, EDID Download Jig, PC & Cable.
- (2) Turn on the PC & EDID Download Jig. And Execute the S/W : EDID TESTER Ver 2.5.
- (3) Set up S/W option.

Repeat Number : 5

Device Address : A0

PageByte : 8

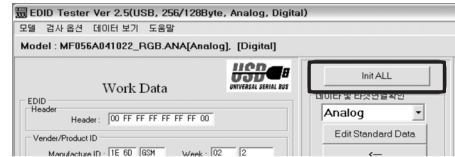


- (4) Power on the Set.

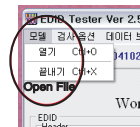
11-5. Sequence of Adjustment

- (1) DDC data of Analog-RGB

- 1) Init the data.

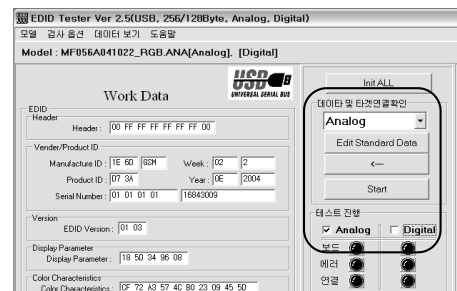


- 2) Load the EDID data.(Open File).



[Analog-RGB : PP78A_RGB.ANA]
[Digital-HDMI1 : PP78A_HDMI1.DVI]
[Digital-HDMI2 : PP78A_HDMI2.DVI]

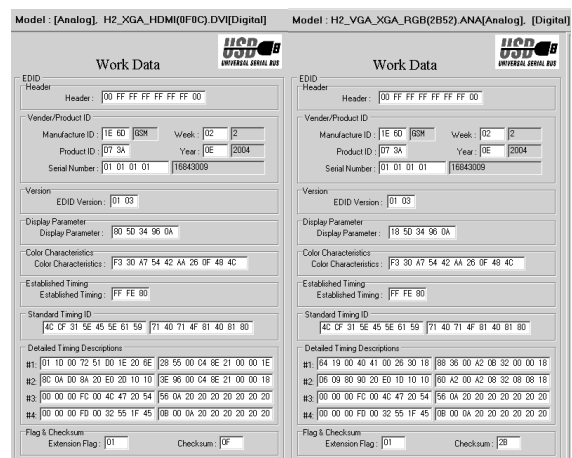
- 3) Set the S/W as below.



- (4) Push the "Write Data & Verify" button. And confirm "Yes".



- (5) If the writing is finished, you will see the "OK" message.



11-6. EDID Data

(1) VGA

<Analog (RGB) >

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	1	2				
0010	3	01	03	08	46	27	78	0A	D9	B0	A3	67	49	9C	26	
0020	11	49	4B	A1	08	00	31	40	01	01	01	01	45	40	01	01
0030	61	40	01	01	01	01	D5	09	80	A0	20	E0	2D	10	08	60
0040	22	00	98	06	32	08	08	18	64	19	00	40	41	00	26	30
0050	18	88	36	00	98	06	32	00	00	18	00	00	00	FD	00	3A
0060	3F	1F	32	09	00	0A	20	20	20	20	20	20	20	20	20	20
0070																5

< Digital1 (HDMI/DVI1) >

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	1	2				
0010	3	01	03	80	46	27	78	EA	D9	B0	A3	67	49	9C	26	
0020	11	49	4B	81	08	00	01	01	01	01	01	01	45	40	01	01
0030	61	40	01	01	01	01	D5	09	80	A0	20	E0	2D	10	08	60
0040	22	00	98	06	32	08	08	18	64	19	00	40	41	00	26	30
0050	18	88	36	00	98	06	32	00	00	18						
0060																
0070	00	3A	3F	1F	32	09	00	0A	20	20	20	20	20	20	01	5
0080	02	03	20	F1	4D	01	06	07	16	16	02	03	11	12	13	04
0090	14	86	23	09	07	07	83	01	00	00	66	03	0C	00	10	00
00A0	01	1D	00	80	61	D0	1C	20	40	80	36	00	BC	88	21	00
00B0	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13	8E
00C0	21	00	00	18	01	1D	80	18	71	1C	16	20	58	2C	25	00
00D0	C4	8E	21	00	00	9E	00	00	00	00	00	00	00	00	00	00
00E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	5

< Digital2 (HDMI/DVI2) >

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	1	2				
0010	3	01	03	80	46	27	78	EA	D9	B0	A3	67	49	9C	26	
0020	11	49	4B	81	08	00	01	01	01	01	01	01	45	40	01	01
0030	61	40	01	01	01	01	D5	09	80	A0	20	E0	2D	10	08	60
0040	22	00	98	06	32	08	08	18	64	19	00	40	41	00	26	30
0050	18	88	36	00	98	06	32	00	00	18						
0060																
0070	00	3A	3F	1F	32	09	00	0A	20	20	20	20	20	20	01	5
0080	02	03	20	F1	4D	01	06	07	16	16	02	03	11	12	13	04
0090	14	86	23	09	07	07	83	01	00	00	66	03	0C	00	20	00
00A0	01	1D	00	80	61	D0	1C	20	40	80	36	00	BC	88	21	00
00B0	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13	8E
00C0	21	00	00	18	01	1D	80	18	71	1C	16	20	58	2C	25	00
00D0	C4	8E	21	00	00	9E	00	00	00	00	00	00	00	00	00	00
00E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	5

=> Detail EDID Options are below(1,2,3,4,5)

1. Product ID

Model Name	Product ID		
	DEC	HEX	EDID table
42PC5RV	40119 (A)	9CB7	B79C
	40120 (D)	9CB8	B89C
42PC7RV	40121 (A)	9CB9	B99C
	40122 (D)	9CBA	BA9C

2. Serial No : Controlled on production line

3. Month, Year : Controlled on production line

ex) Monthly: '03' => '03'

Year: '2005' => '0F'

4. Model Name : model name -> LG TV

- LG TV

5. Checksum (7EH) -> Changeable by total EDID data.

Model Name	Model Name(HEX)															
LG TV	00	00	00	FC	00	4C	47	20	54	56	0A	20	20	20	20	20

12. Adjustment of White Balance

12-1. Purpose and Principle for adjustment of the color temperature

(1) Purpose : Adjust the color temperature to reduce the deviation of the module color temperature.

(2) Principle : To adjust the white balance without the saturation, Fix the one of R/G/B gain to 80 and decrease the others.

12-2.Adjustment mode

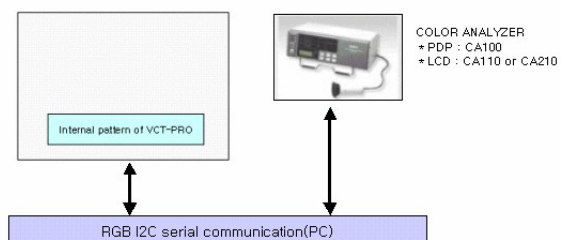
: Two modes of Cool and Warm.(Medium data is automatically calibrated by the cool data)

12-3. Required Equipment

(1) Remote control for adjustment.

(2) Color Analyzer.(CA-110 or same product) - CH : 10

(3) Auto W/B adjustment instrument.(only for Auto adjustment)



12-4. Connecting diagram of equipment for measuring (For Automatic Adjustment)

(1) Enter the DDC adjust mode.

- Enter the white balance adjustment mode at the same time heat-run mode when pushing the power on by power only key.

- Maintain the white balance adjustment 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.

* Standard color coordinate and temperature when using the CA-110 or CA210 equipment.

Mode	Color Coordinate		Temp	△uv
	x	y		
COOL	0.276±0.002	0.283±0.002	11,000K	0.000
MEDIUM	0.285±0.002	0.293±0.002	9,300K	0.000
WARM	0.313±0.002	0.329±0.002	6,500K	0.003

* Synchronization relation between PSM and CSM.

PSM	CSM	Remark
Dynamic	Cool	
Standard	Normal	
Mild	Warm	

(3) DDC adjustment support command set.

Adjustment	CMD(HEX)	ADR	VALUE	Detail
Aging On/Off	F3	00	FF/00	OO : OFF 01 : ON FF : WB Ready
Input select	F4	00		0x10 : TV 0x20 : AV1 0x21 : AV2 0x23 : AV3 0x40 : Component1 0x50 : RGB DTV 0x60 : RGB PC 0x90 : HDMI1 DTV
R GAIN	16	00	00 - FE	GAIN adjustment
G GAIN	18		00 - FE	CSM COOL
B GAIN	1A		00 - FE	
R GAIN	16	01	00 - FE	GAIN adjustment
G GAIN	18		00 - FE	CSM NORMAL
B GAIN	1A		00 - FE	
R GAIN	16	02	00 - FE	GAIN adjustment
G GAIN	18		00 - FE	CSM WARM
B GAIN	1A		00 - FE	

* R/G/B GAIN max value : 80

12-5. Adjustment of White Balance

(For Manual adjustment)

- Adjustment mode : Two modes of Cool (Dynamic) and Warm(Mild).

(Medium data is automatically calibrated by the cool data)

- Color analyzer(CA110, CA210) should be used in the calibrated ch by CS-1000.(PDP : CH10)
- Operate the zero-calibration of the CA-110 or CA-210, then stick sensor to the module when adjusting.
- 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.)

- (2) Changing to the av mode by pushing the input or front av key.(av mode : av1 or av2 or av3)

- (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 two modes of Cool(Dynamic) and Warm(Mild) as below figure.

(Fix the one of R/G/B and change the others)

1. Push the one time the in-start key : Dynamic(Cool)
2. Push the two more the in-start key : Mild(Warm)

Mode	Color Coordinate		Temp	△uv
	x	y		
COOL	0.276±0.002	0.283±0.002	11,000K	0.000
MEDIUM	0.285±0.002	0.293±0.002	9,300K	0.000
WARM	0.313±0.002	0.329±0.002	6,500K	0.003

* Refer to the below case to know what value is fixed.

* CASE

- First adjust the coordinate much away from the target value(x, y).

- 1) x, y > target

- (1) Decrease the R, G.

- 2) x, y < target

- (1) First decrease the B gain.

- (2) Decrease the one of the others.

- In case of decreasing the x, decreasing the R : fix G

- In case of decreasing the y, decreasing the G : fix R

- 3) x > target, y < target

- (1) First decrease B, so make y a little more than the target.

- (2) Adjust x value by decreasing the R.

- 4) x < target, y > target

- (1) First decrease B, so make x a little more than the target.

- (2) Adjust x value by decreasing the G.

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

13. 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.

14. Default Value in Adjustment mode

(Default values maybe modified the module condition)

14-1. White Balance

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

<Default Value on OSD>

15. Internal press test

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

16. Sound spec.

Item	Min	Typ	Max	Unit	Remark
Audio Practical Max Output, L(Mono)/R	9	10	12	W	PDP

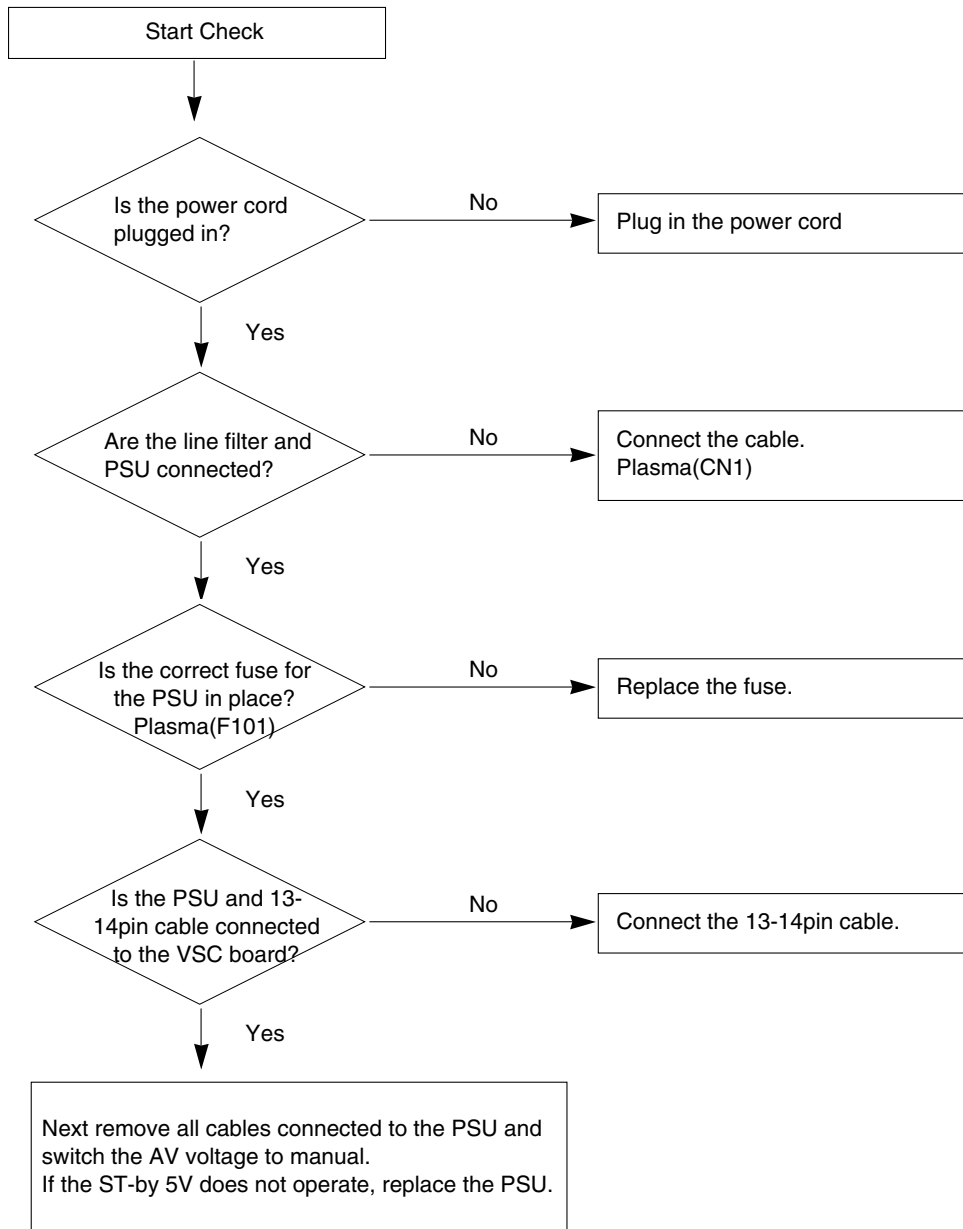
TROUBLESHOOTING

1. No power

(1) Symptom

- 1) Minute discharge does not occur at module.
- 2) Front LED does not activate.

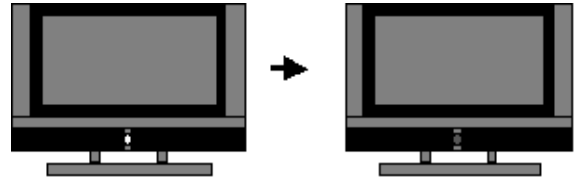
(2) Press check



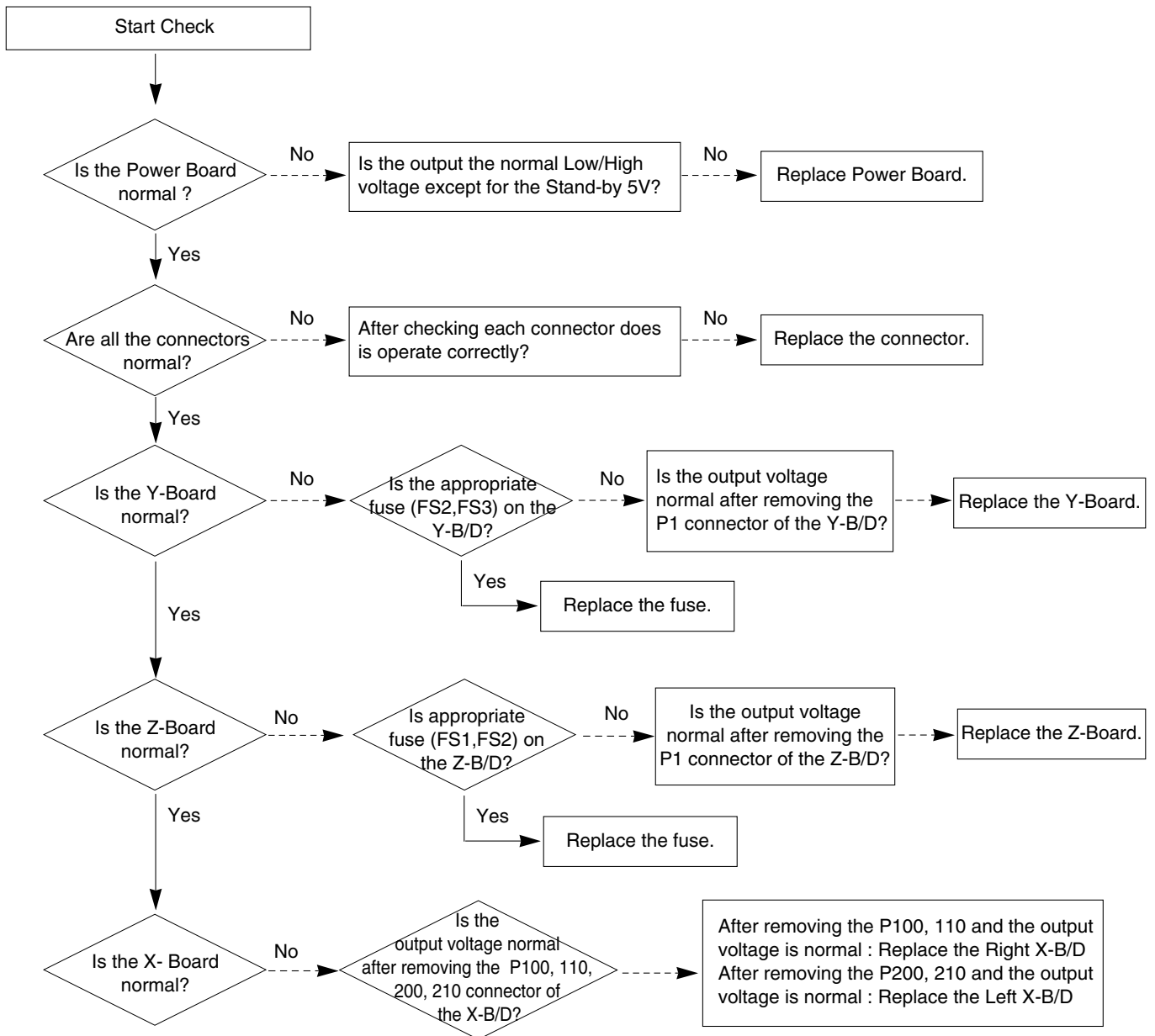
2. Protect mode

(1) Symptom

- 1) After lighting once it does not discharge minutely from the module.
- 2) The relay falls.(there is an audible "Click".)
- 3) The color of the front LED turns from green to red.



(2) Follow check



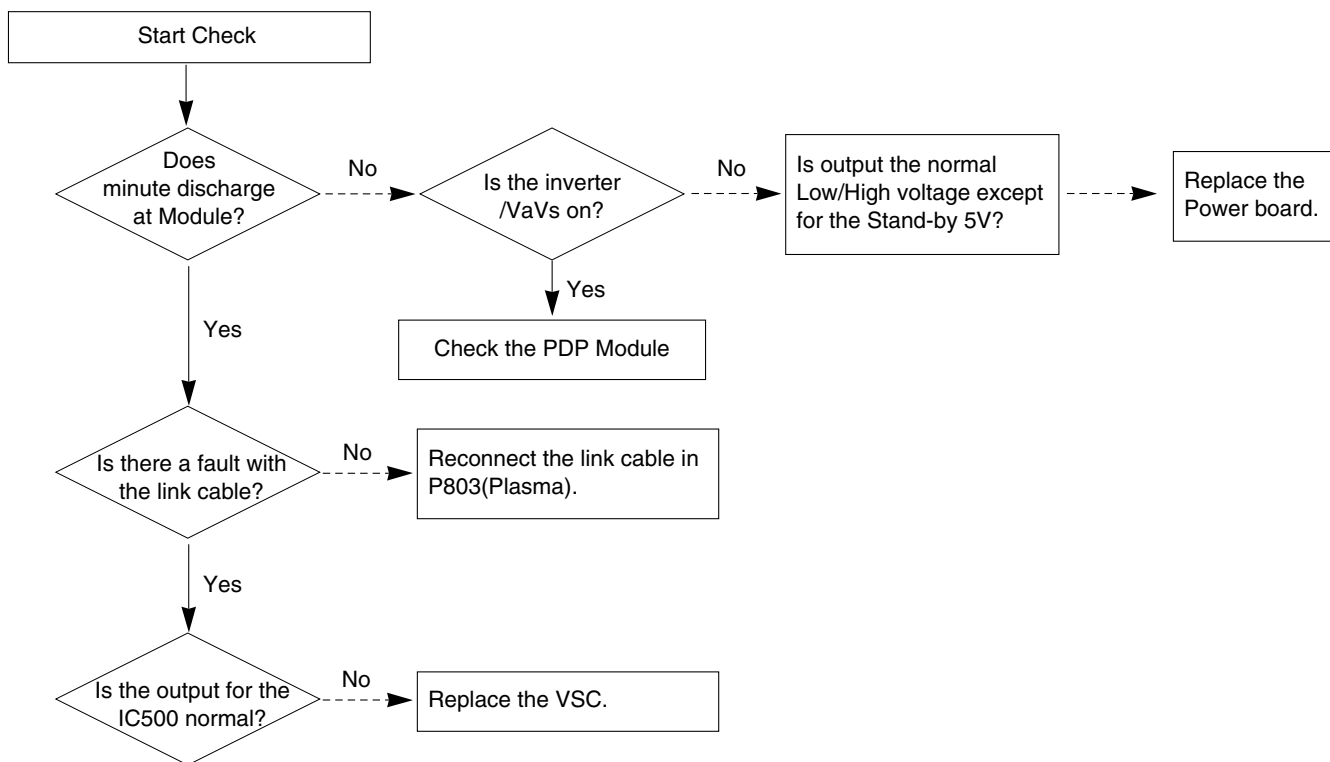
3. No Raster

(1) Symptom

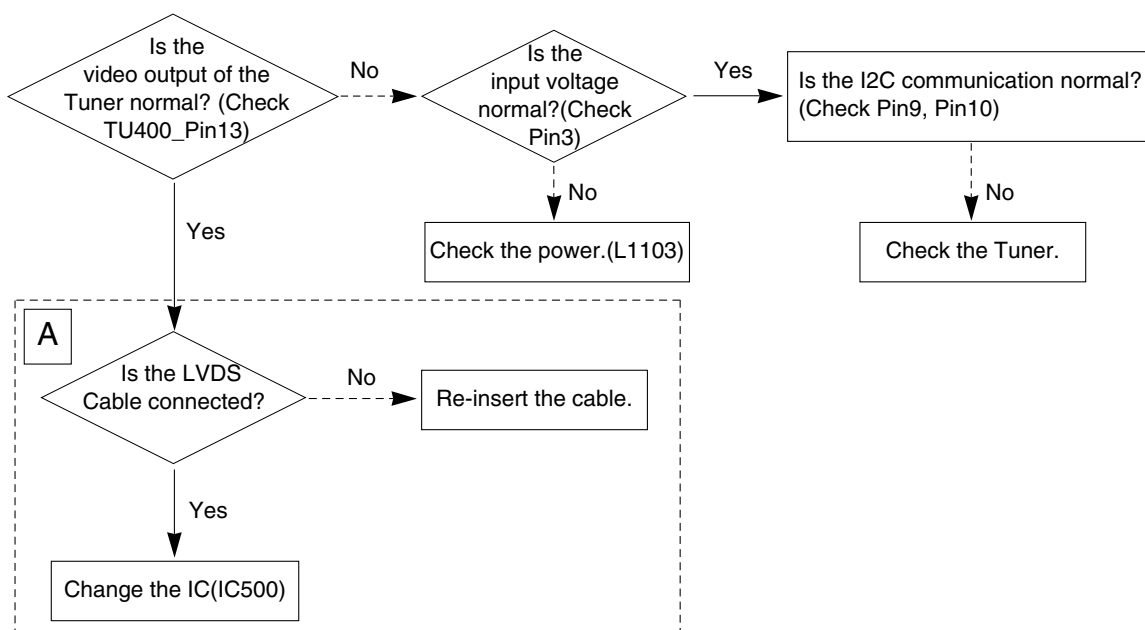
- 1) No OSD or image are displayed on the screen.
- 2) The front LED remains green.



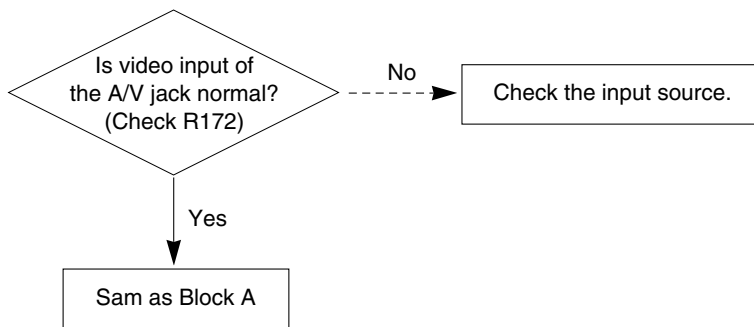
(2) Follow check



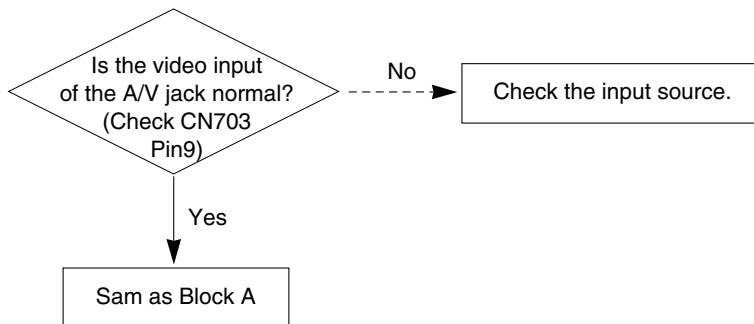
4. In the case an unusual display in RF mode.



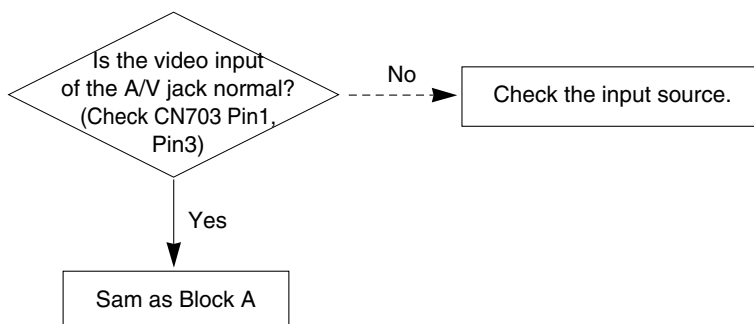
5. In the case of an unusual display in rear AV mode.



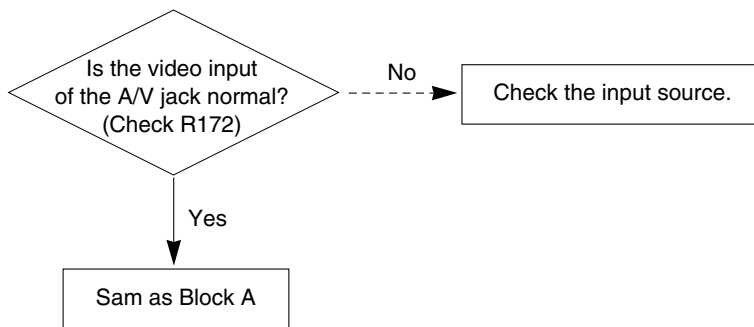
6. In the case of an unusual display in Side AV mode.



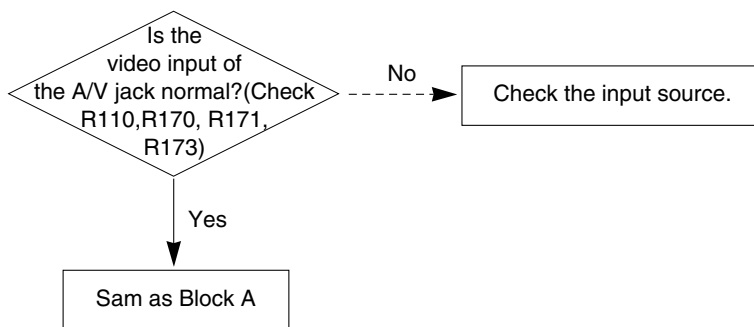
7. In the case of an unusual display in Side S-Video mode.



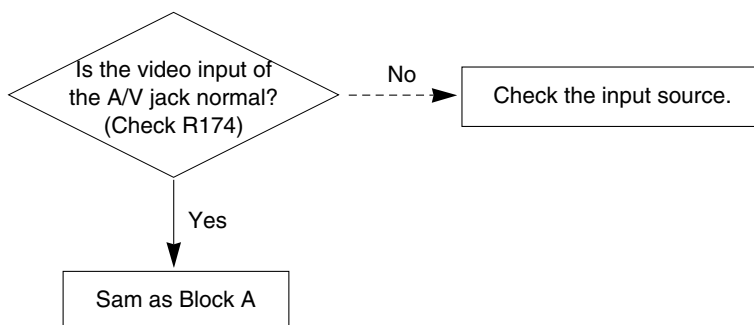
8. In the case of an unusual display in SCART 1 mode.



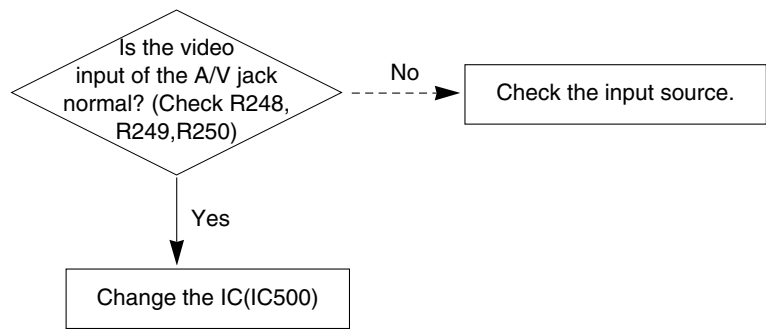
9. In the case of an unusual display in SCART 1_RGB mode.



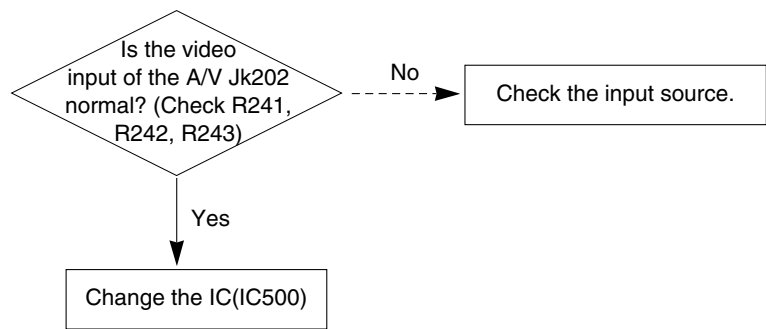
10. In the case of an unusual display in SCART 2 mode.



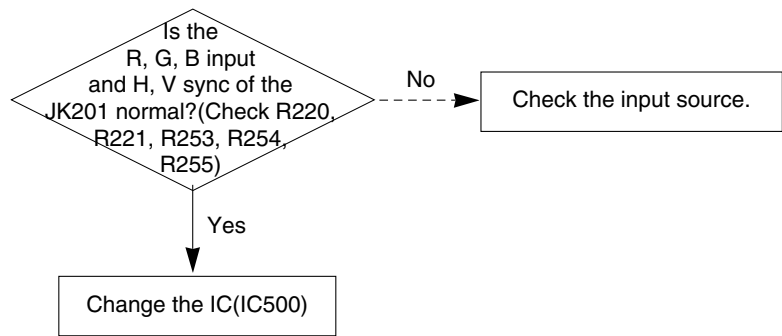
11. In the case of an unusual display in component 1 mode.



12. In the case of an unusual display in component 2 mode.



13. In the case of an unusual display in RGB mode.

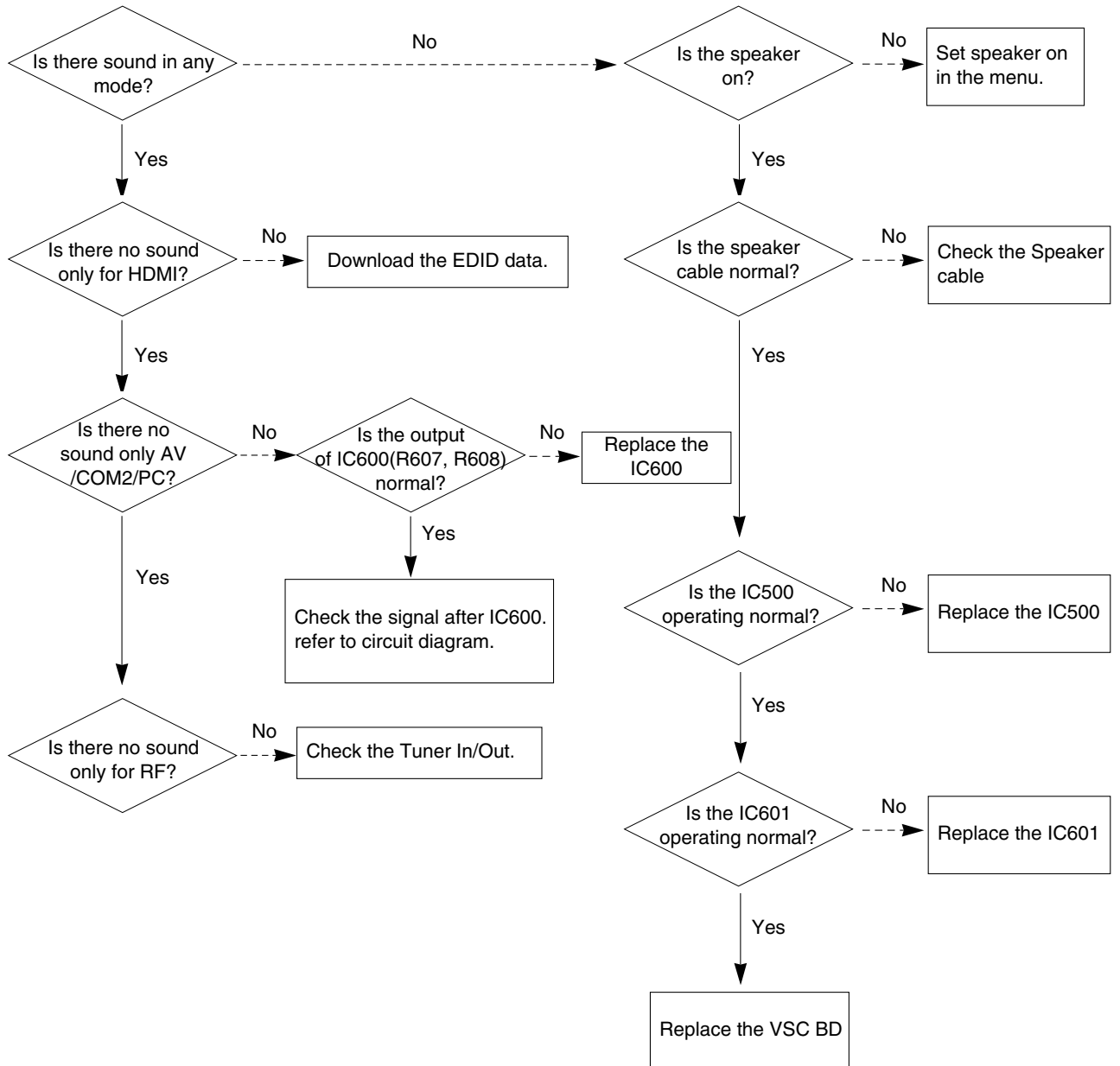


14. No Sound

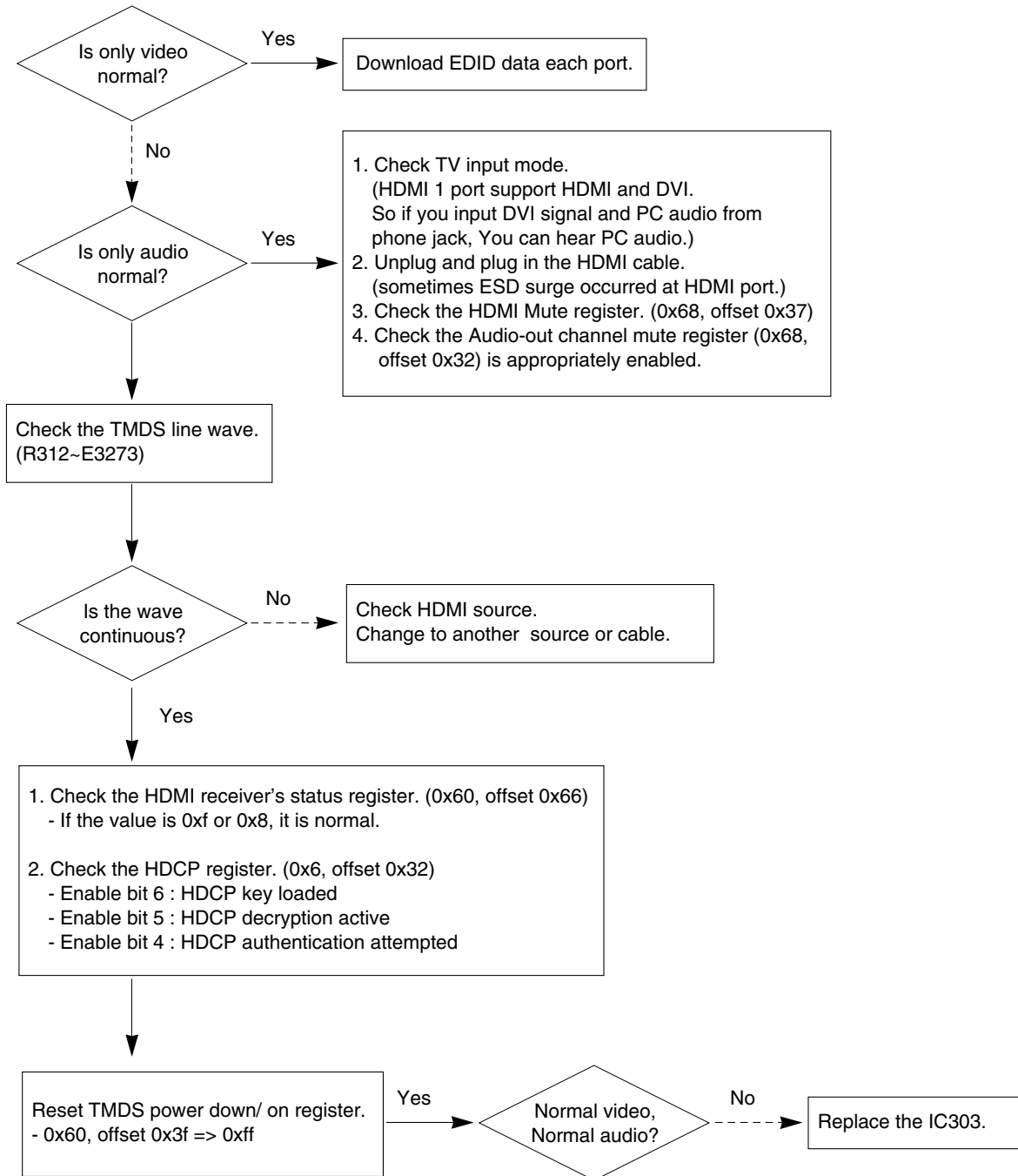
(1) Symptom

- 1) LED is green.
- 2) There is a picture but no sound.

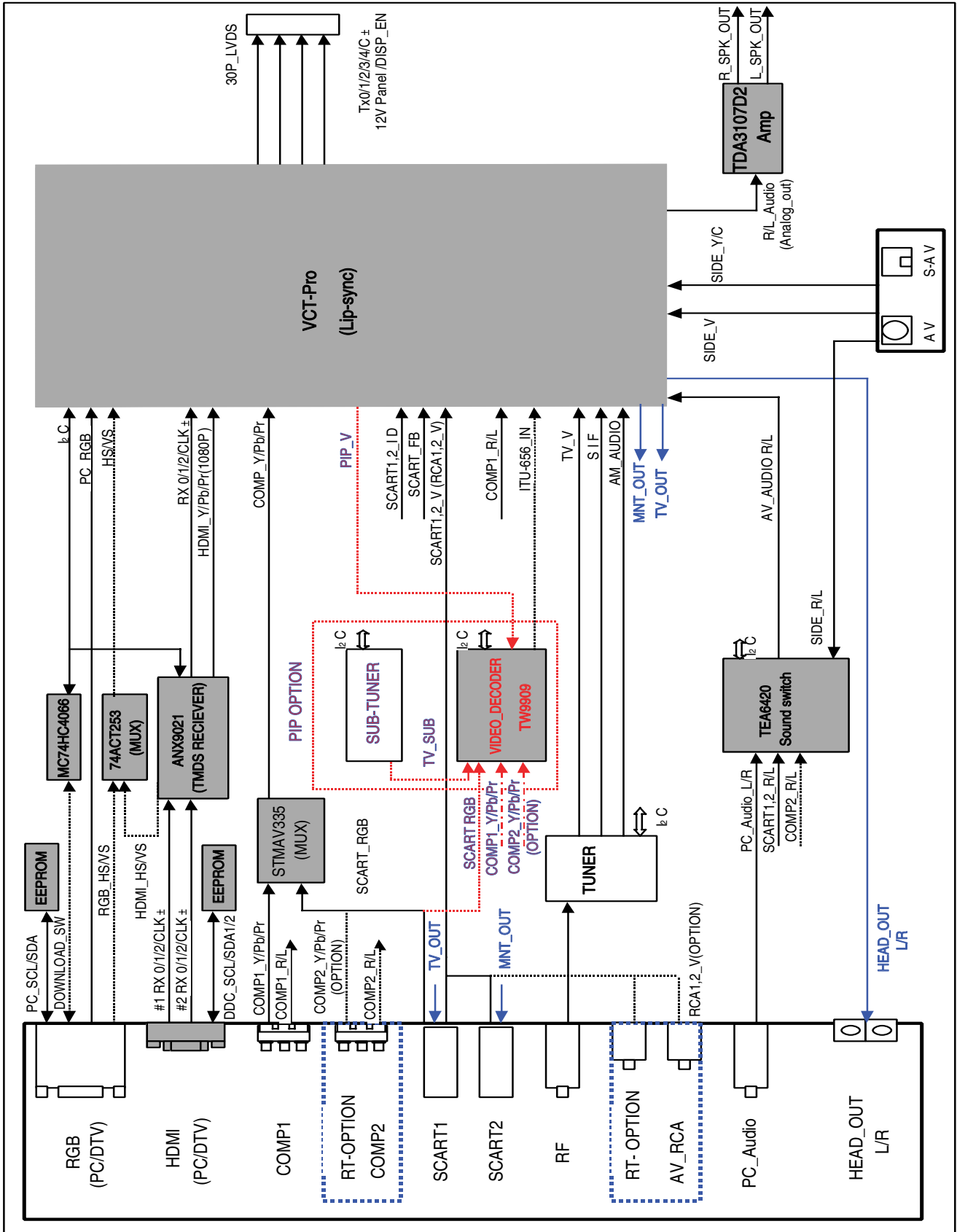
(2) Follow check



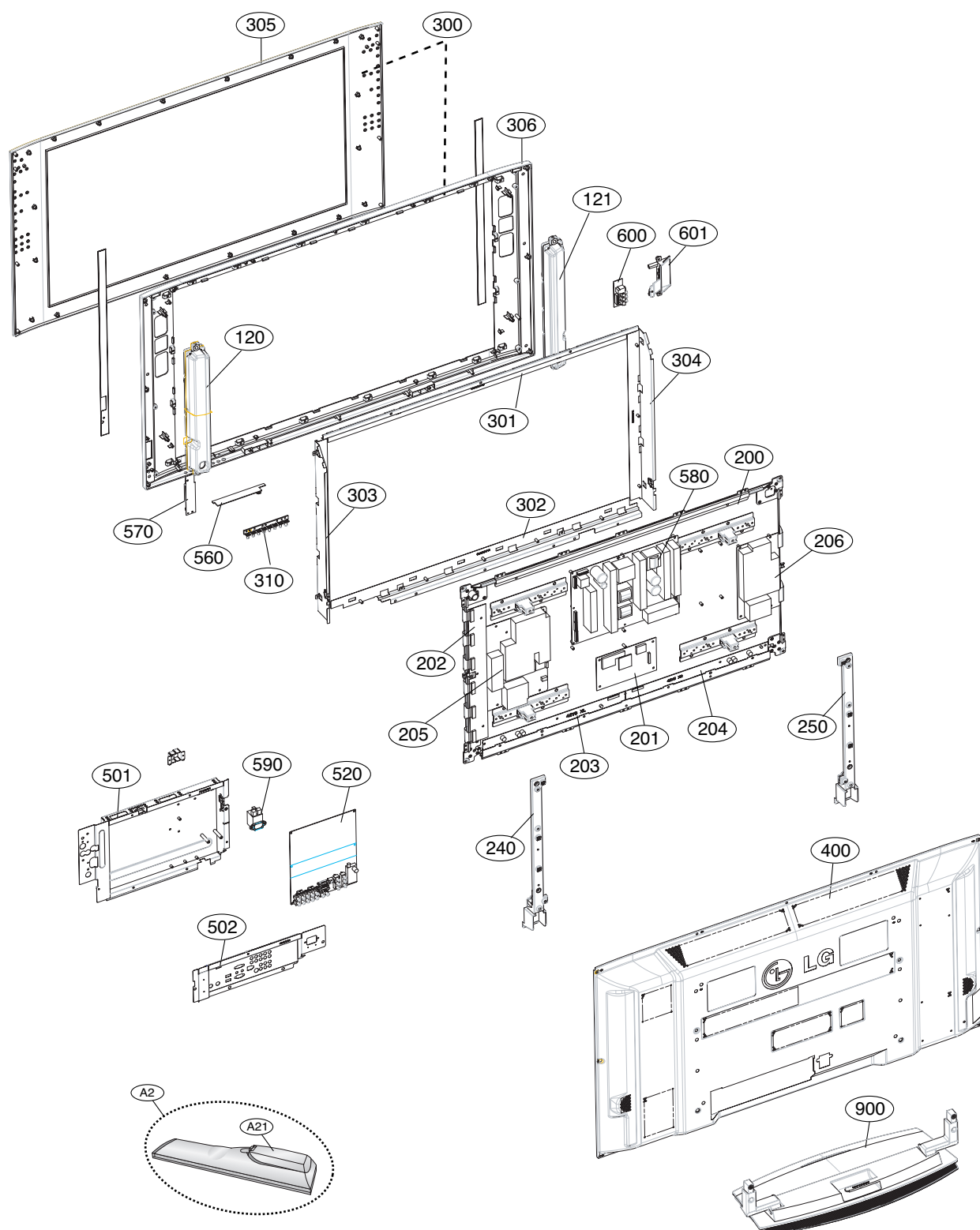
15. HDMI mode



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

The components identified by mark  is critical for safety.
Replace only with part number specified.

No.	Part No.	Descriptions
120	6401900127C	Speaker Assembly, PB SERIES SIDE RIGHT
121	6401900127D	Speaker Assembly, PB SERIES SIDE LEFT
△ 200	EAJ34127101	PDP,Module-VGA, PDP42V80211.AKLGG VGA 42INCH 852X480 16/9 PDP DIVISION
	EAJ34127201	PDP,Module-VGA, PDP42V80211.ADLGB VGA 42INCH 852X480 16/9 PDP DIVISION FOR SKD
△ 201	6871QCH074D	Hand Insert PCB Assembly, CTRL ASS'Y HAND INSERT 42" V8 4LAYER 4005 ASIC LVDS 192CH
△ 202	EBR30445601	Hand Insert PCB Assembly, YDRV ASS'Y HAND INSERT 42" V8 YDRV B/D CI ver.
△ 203	6871QLH057B	Hand Insert PCB Assembly, XRLT ASS'Y HAND INSERT 42" V8 XL B/D
△ 204	6871QRH067B	Hand Insert PCB Assembly, XRRT ASS'Y HAND INSERT 42" V8 XR B/D
△ 205	EBR31744002	Hand Insert PCB Assembly, YSUS ASS'Y HAND INSERT 42" V8A YSUS 2L OSP Added Clamping Diode PDP DIVISION
△ 206	EBR31743102	Hand Insert PCB Assembly, ZSUS ASS'Y HAND INSERT 42" V8A ZSUS 4L OSP CI Added Clamping Diode PDP DIVISION
240	AJJ31097809	Supporter Assembly, 42PC7RV-TA SUPP.VERTICAL ASSY RIGHT
	AJJ31097811	Supporter Assembly, 42PC7RV-TA SUPP.VERTICAL ASSY RIGHT FOR SKD
250	AJJ31097810	Supporter Assembly, 42PC7RV-TA SUPP.VERTICAL ASSY LEFT
	AJJ31097812	Supporter Assembly, 42PC7RV-TA SUPP.VERTICAL ASSY LEFT FOR SKD
△ 300	ABJ30990105	Cabinet Assembly, 42PC7RV-TA PP62A 42" Cabinet Assy
	ABJ30990108	Cabinet Assembly, 42PC7RV-TA PP78A 42" Cabinet Assy FOR SKD
301	AJJ30990901	Supporter Assembly, 42PB(C)7 ASSY SUPP.FILTER TOP
	AJJ30990905	Supporter Assembly, 42PC7RH-MA ASSY SUPP.FILTER TOP FOR LGERS SKD
302	AJJ30991401	Supporter Assembly, 42PB(C)7 ASSY SUPP.FILTER BOT
	AJJ30991405	Supporter Assembly, 42PC7RH-MA ASSY SUPP.FILTER BOT FOR LGERS SKD
303	AJJ30991506	Supporter Assembly, 42PC7RV-TA ASSY SUPP.FILTER RIGHT
	AJJ30991507	Supporter Assembly, 42PC7RV-TA ASSY SUPP.FILTER RIGHT FOR SKD
304	AJJ30991606	Supporter Assembly, 42PC7RV-TA SUPP.FILTER LEFT
	AJJ30991607	Supporter Assembly, 42PC7RV-TA SUPP.FILTER LEFT FOR SKD
△ 305	ADV30990301	Frame Assembly, 42PB(C)7 PP62A 42" Frame Assy
△ 306	MBH31369402	Cabinet, MOLD ABS 42PC7R-MA ABS CABINET NON INDEX
310	5020900003A	Button, MOLD ABS CONTROL PDP PC1 SERIES ABS, HF-380 8KEY NON
△ 400	ACQ30991702	Cover Assembly,Rear, 42PC7_ANALOG PP62A 42" ASSY B/COVER ANALOG
	ACQ30991707	Cover Assembly,Rear, 42PC7RH-MA PN61A 42" ASSY B/COVER ANALOG FOR LGERS SKD
501	AGU31681113	Plate Assembly, ASSY PLATE TUNER BOT SMALL, 42PC7RV-TA
502	AGU31680902	Plate Assembly, ASSY PLATE TUNER COVER SMALL, H4 NON EU
520	EBR32773010	Hand Insert PCB Assembly,Main, MAIN1 M.I PP78A H4 VCT-PRO. 42PC7RV-TA HAND INSERT . -
560	EBR33804102	Hand Insert PCB Assembly, CONTROL M.I PP78A 42PC7RV-TA . H4 42PC7RV-TA HAND INSERT
570	EBR33809709	Hand Insert PCB Assembly, SUB M.I PP78A 42PC7RV-TA . H4 42PC7RV-TA PREAMP HAND INSERT FOR SKD
	EBR36001203	PCB Assembly,Sub, SUB T.T PP78A 42PC7RV-TB AGALLHX Preamp + LED
△ 580	EAY32927901	SMPS, 1H371W 100VTO240V 400W 50 TO 60HZ UL/CE/TUV - SANKEN ELECTRIC CO
590	EAM35012703	Filter,AC Line, IF2-N06CEWL2 5.3mH 250VAC 6A 0.22uF 1000pF VDE/CSA/K/CCC 450/130MM CORE ADDTION
600	EBR33799306	Hand Insert PCB Assembly, SUB M.I PP78A 42PC7RV-TA . SIDE AV HAND INSERT 42PC7RV-TA
	EBR33799341	Hand Insert PCB Assembly, SUB M.I PP78A 42PC7RV-TA . SIDE AV HAND INSERT 42PC7RV-TA
601	ABA31105001	Bracket Assembly, SIDE AV 42PB(C)7 MF056A ASSY
△ 900	AAN30992301	Base Assembly, STAND 42PB(C)7 PP62A ASSY BOARD
	AAN30992302	Base Assembly, STAND 42PC7RH-MA PN61A ASSY STAND FOR LGERS SKD
A2	MKJ32022826	Remote Controller, COMPLEX PA71A 50PBRT H4, WITH PIP SIMPLINK, REMOTE CONTROLLER
A21	3550V00590A	Cover, MOLD ABS BATTERY TN-50PY20 ABS 6710V00142

REPLACEMENT PARTS LIST

DATE: 2007. 05. 11.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS					
C100	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G -5	C319	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C100	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G -5	C320	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55
C101	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 60M	C321	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55
C101	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G -5	C322	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55
C102	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 60M	C400	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C103	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 60M	C401	0CC390CK41A	C1608C0G1H390JT 39pF 5% 50V C0G -55
C104	0CH5471K416	C2012C0G1H471JT 470pF 5% 50V C0G -5	C402	0CC390CK41A	C1608C0G1H390JT 39pF 5% 50V C0G -55
C105	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C403	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V 91
C106	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C404	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C111	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C405	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C113	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C408	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 130M
C114	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C410	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55
C115	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C411	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C116	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 130M	C412	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C117	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V - -	C500	0CK225DD66A	LMK212JB225MG-T 2.2uF 20% 10V X7R -
C120	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V - -	C501	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C200	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C502	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C201	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C503	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C204	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C504	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C205	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C505	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C206	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -	C506	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C211	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C507	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C212	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C508	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C213	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C509	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C214	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55T	C510	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C215	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C511	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C216	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C512	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C217	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C513	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C218	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C515	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C219	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C516	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -
C220	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5	C517	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C221	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R -5	C518	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C222	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C519	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C223	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C520	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C224	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C521	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C225	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C522	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C226	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C525	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C227	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R -5	C526	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C302	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C527	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50V 14MA
C303	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C528	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C307	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C529	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R -
C308	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -55	C530	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R -
C309	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C531	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R -
C310	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -55	C532	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R -
C311	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25V 20M	C533	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25MA -
C312	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -30	C534	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C316	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -	C535	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -55
C317	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C536	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -55
C318	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25V 20M	C537	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55
			C538	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -55

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C539	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C625	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C540	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C626	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C541	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C627	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C542	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C628	JCE8106J691	MVK5.0TP35VC10M 10uF 20% 35V 25MA -
C543	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C628	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25MA -
C544	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C629	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C545	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C630	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C546	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C631	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V Y5
C547	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C632	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V X7
C548	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C633	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V X7
C549	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C634	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V X7
C550	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C635	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V X7
C551	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C636	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C552	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C637	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C553	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C638	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C554	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C639	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C555	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R -5	C640	0CE477BJ618	ESM477M035T1G5H20G 470uF 20% 35V 61
C556	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R -5	C641	0CE477BJ618	ESM477M035T1G5H20G 470uF 20% 35V 61
C557	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R -5	C642	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C558	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C643	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C559	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C644	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C563	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C645	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5
C564	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C646	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C568	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C647	0CE107WJ6DC	MVK10TP35VC100M 100uF 20% 35V 310MA
C569	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C648	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C570	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C649	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C571	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C650	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C572	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C651	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C573	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C652	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C574	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15MA	C653	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C575	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	C703	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C576	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C704	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C600	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C708	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16V - -
C601	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA	C709	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C602	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	C710	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C603	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C711	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C604	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C712	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C606	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C713	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C607	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C714	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C608	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C801	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 80MA
C609	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA -	C804	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C610	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15MA	C805	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C611	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15MA	C806	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25V
C612	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V C0G -5	C807	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20% 25V 180M
C613	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V C0G -5	C808	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA
C614	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C809	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C616	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C810	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C617	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C811	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C618	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R -	C812	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55
C619	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -55T	C813	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA
C620	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -55T	C814	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C621	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C815	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA
C622	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P -	C816	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA
C623	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V C0G -55	C818	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5
C624	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V Y5	C819	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C820	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA	D222	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD
C821	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V 80MA	D223	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD
C822	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D224	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3NS
C823	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D300	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3NS
C824	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16V - -	D301	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3NS
C825	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA	D302	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3NS
C826	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D600	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3NS
C827	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D700	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD
C828	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA	D701	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD
C829	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D801	0DZKE00048A	KDZ8.2V 8.2V 7.7TO8.7V 200HM 200MW
C830	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80MA	D803	0DR340009AA	MBRS340 525MV 40V 4A 0SEC 0F 0W DO2
C831	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	D100	0DL200000CA	LED, SAM5670(DL-2LRG) ROUND 4.8MM Y-GREE
C832	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V 91	D800	0DL233309AC	LED, SAM2333 RED/Y-GREEN 2.7V 2.8V 30mA
C833	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -5	ICs		
C836	0CK226FF67A	EMK325BJ226MM-T 22uF 20% 16V X5R -5	IC200	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT 1
C837	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	IC202	0ISTL00031A	MC74HC4066ADR2G MC74HC4066ADR2G,LF
C837	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	IC203	0IFA742530B	74ACT253SC 4.5TO5.5V 0.004mA MULTIP
C838	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R -5	IC302	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT 1
C839	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	IC303	0IPRP00735A	ANX9021 3.3V 60u 17MHZ TQFP TR 144P
C839	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55	IC304	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT 1
C840	0CK272CK46A	0603B272J500CT 2.7nF 10% 50V X7R -5	IC500	EAN35336801	VCT7993P- FA-A1-H-000 1.71VTO1.89V,
DIODEs			IC501	0IMMRAL025A	AT24C32AN-10SU-2.7 32KBIT 4096X8BIT
D100	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	IC502	0IFA752700A	KA75270Z 2.55TO2.85V 0 200MW TO92 R
D101	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	IC600	0IPRP00665A	TEA6420D 8TO10.2V 8mA 0 SO R/TP 28P
D102	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	IC601	EAN35502001	TPA3107D2 10TO26V 50mV 0.1% 15W 0W
D102	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	IC800	EAN32662801	KA7809ERTM 35V to 40V 9V 1W DPAK R/
D103	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	IC801	EAN35520901	MP2355DN-LF-Z 4.75V ~ 23V 2.5V ~ 12
D103	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	IC802	0IPMG78341A	AZ1085S-3.3TR/E1,LF 12V 3.3V 0W TO2
D104	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	IC803	0IPMG78341A	AZ1085S-3.3TR/E1,LF 12V 3.3V 0W TO2
D104	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	IC805	EAN34140401	AZ1085S-1.8TRE1 1.238V to 12V 1.8V
D106	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	IC807	EAN32724702	STMAV340 4.0TO5.5V 5NSEC 5NSEC 0W T
D108	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	IC809	0IPMG00049A	AZ1117H-1.8TR/E1[H13A] 3.2TO10V 1.8
D112	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	FILTERs & INDUCTORs		
D200	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	F1	6210VH0004A	6210VH0004A 100OHM 30MM 13MM 34MM R
D201	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	AL308	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D202	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	AL309	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D203	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	AL310	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D204	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	AL311	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D205	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	AL312	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D206	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	AL313	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.3M
D207	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	L100	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D208	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD323	L101	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D209	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD323	L102	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D210	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD323	L103	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D211	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD323	L107	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D214	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	L108	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D215	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	L200	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D216	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	L201	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D217	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	L202	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D218	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W SOD	L203	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D219	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO	L204	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD
D220	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W SO			
D221	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD323			

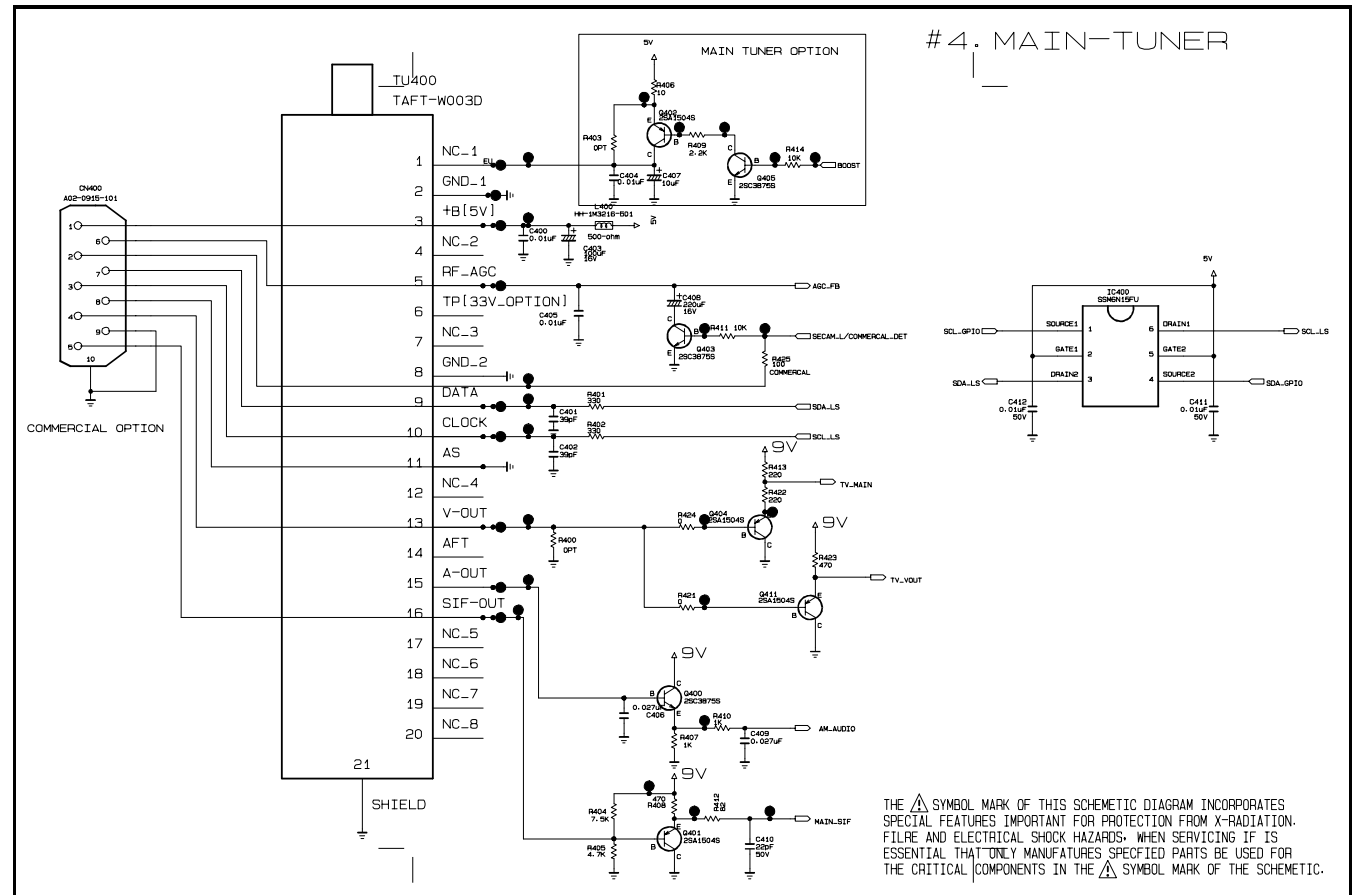
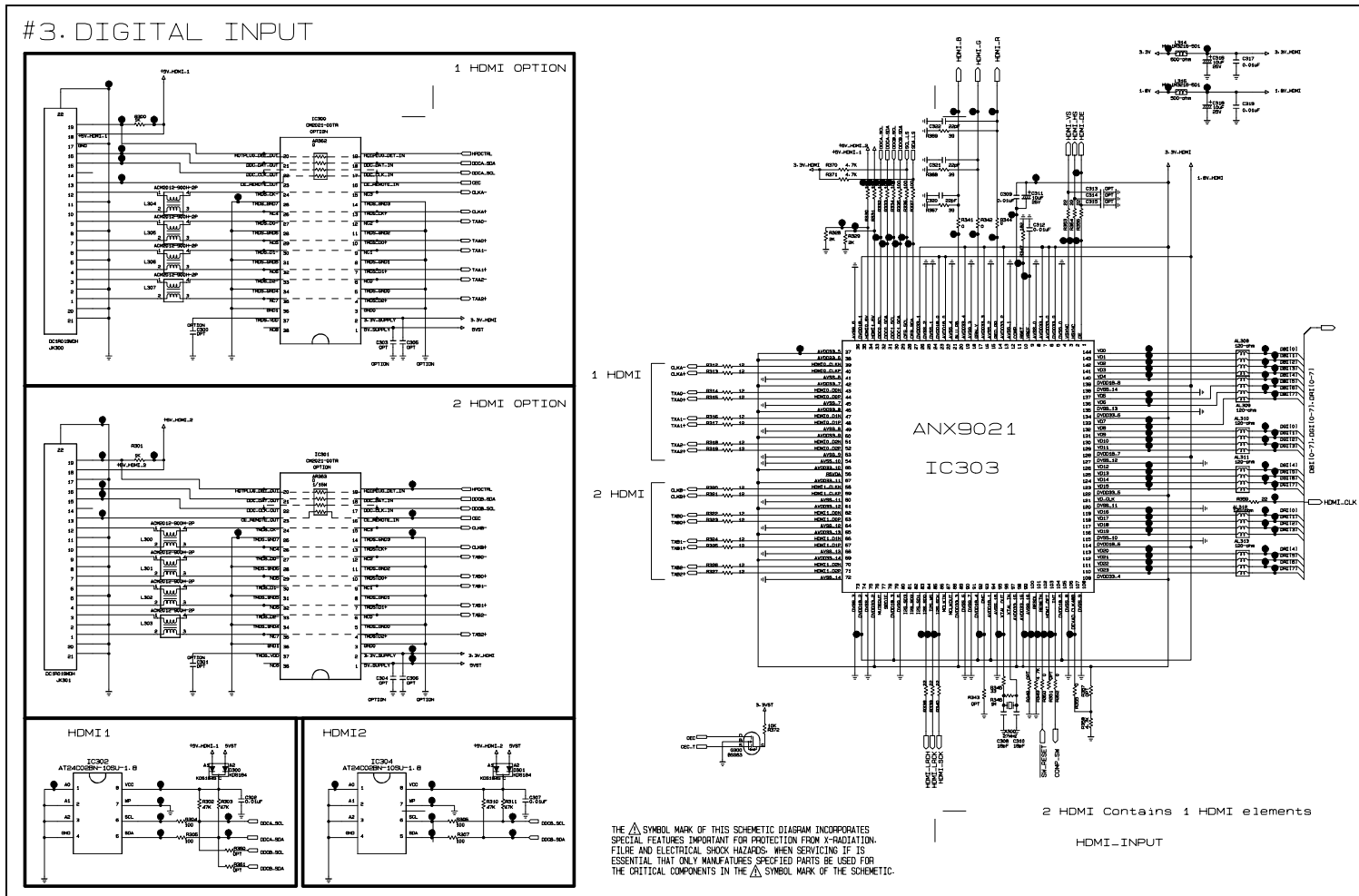
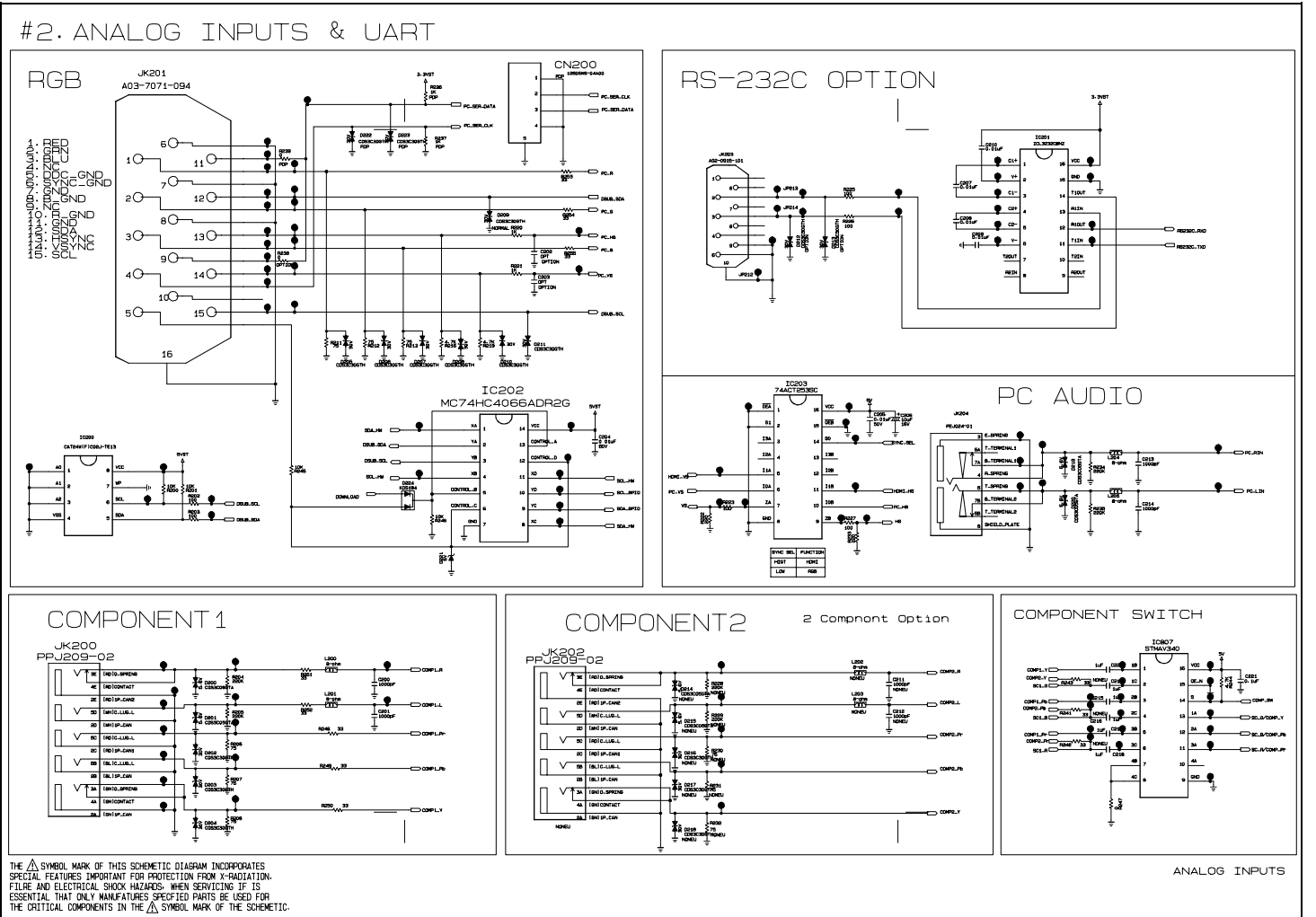
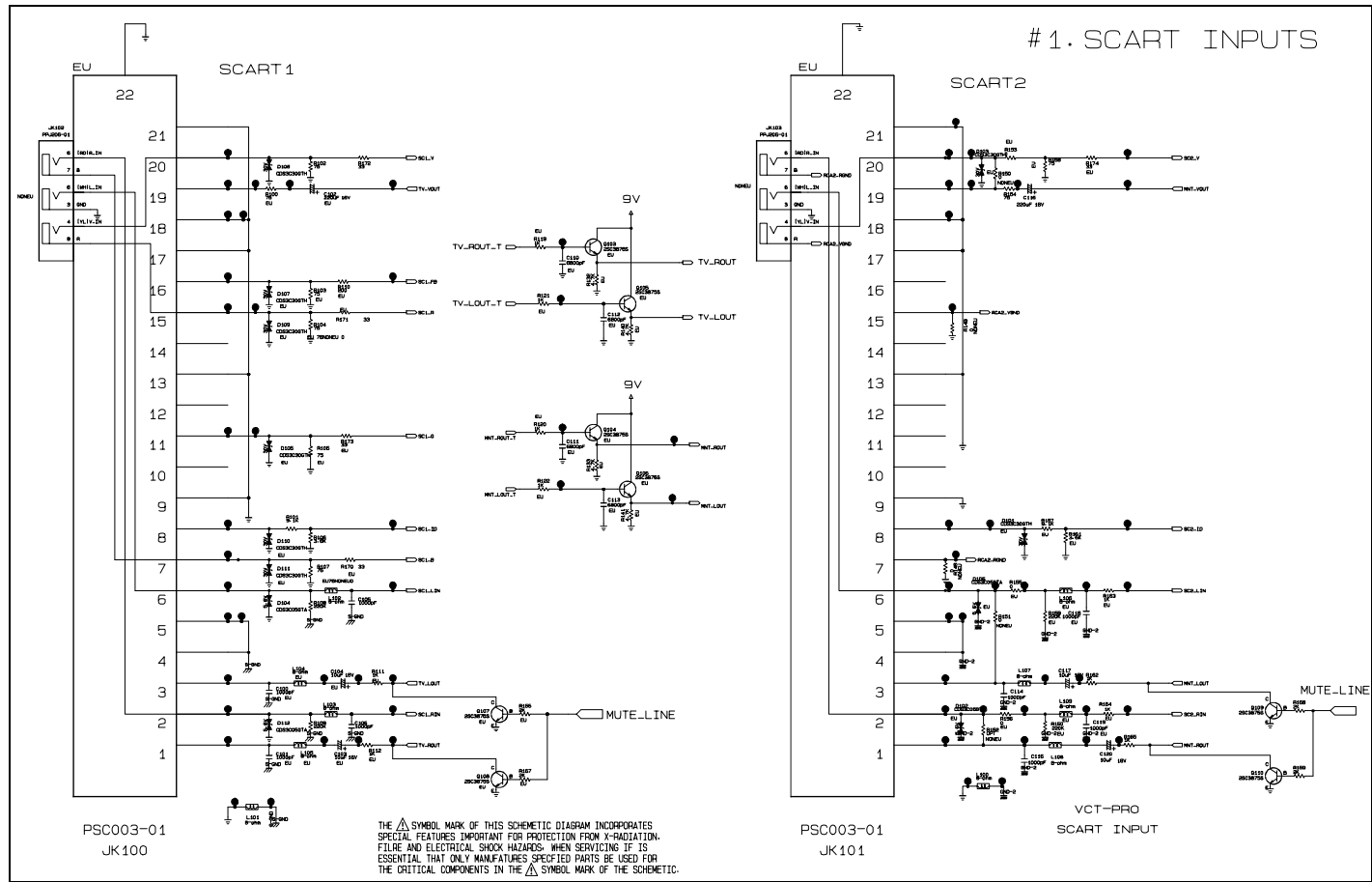
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L205	6210TCE001A	HB-1S2012-080JT 80HM 2X1.25X1MM SMD	Q101	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L314	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q104	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L315	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q106	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L400	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q109	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L501	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q110	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q200	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L508	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3MM	Q201	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L509	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3MM	Q202	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L510	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3MM	Q203	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L511	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q204	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L512	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q205	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L602	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q206	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L603	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q400	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L608	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q401	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
L609	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q403	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L610	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1.2	Q404	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
L612	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1.2	Q500	0TR102009AM	KRA102S PNP -30V 0V -50V -0.1A -0.0
L615	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1.2	Q501	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
L617	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1.2	Q502	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
L618	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q503	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L703	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	Q504	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
L704	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1.2	Q600	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L705	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1.2	Q601	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L706	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1.2	Q602	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L707	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400NH	Q603	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L708	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400NH	Q800	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L709	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400NH	Q801	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L711	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH S	Q803	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L712	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH S	Q804	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA
L714	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH S	RESISTORS		
L800	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	L402	0RJ0000G676	MCR18EZJ000_00HM 5% 1/4W 3216 R/T
L801	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	L710	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
L802	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3MM	R1	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
L803	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	R100	0RH0332D622	MCR10EZJ330 33OHM 5% 1/8W 2012 R/T
L806	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	R100	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
L807	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	R101	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
L808	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.3M	R101	0RH0752D622	MCR10EZJ750 75OHM 5% 1/8W 2012 R/T
X300	6202TST001H	Crystal, SX-1 27MHZ 30PPM 27MHZ 30PPM 20pF S	R101	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
X500	6202VDT002P	Crystal, HC-49/SM 20.25000MHZ 20.25MHZ 30PPM	R101	0RH0752D622	MCR10EZJ750 75OHM 5% 1/8W 2012 R/T
L100	0LC1032101A	Inductor, FI-C3216-103KJT 10UH 10% - 50MA 0.7	R101	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
L600	0LCML00020C	Inductor, MLI-201212-100K 10UH 10% - 15MA 1.1	R102	0RH1101D622	MCR10EZJ112 1.1KOHM 5% 1/8W 2012 R
L601	0LCML00020C	Inductor, MLI-201212-100K 10UH 10% - 15MA 1.1	R102	0RJ0752D677	MCR03EZP750 75OHM 5% 1/10W 1608 R/
L605	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.10	R102	0RH4700D622	MCR10EZJ471 470OHM 5% 1/8W 2012 R/
L606	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.10	R102	0RH4700D622	MCR10EZJ471 470OHM 5% 1/8W 2012 R/
L613	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.10	R103	0RH3301D622	MCR10EZJ332 3.3KOHM 5% 1/8W 2012 R
L614	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.10	R103	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
L810	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.09	R103	0RH2203D622	MCR10EZJ224 220KOHM 5% 1/8W 2012 R
TRANSISTORS & FETs			R103	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
IC301	0TFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +20	R104	0RH9101D622	MCR10EZJ912 9.1KOHM 5% 1/8W 2012 R
IC305	0TFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +20	R104	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
IC306	0TFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +20	R104	0RH4700D622	MCR10EZJ471 470OHM 5% 1/8W 2012 R/
IC400	0TFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +20	R104	0RH4700D622	MCR10EZJ471 470OHM 5% 1/8W 2012 R/
Q100	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA 100NA	R105	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP
			R105	0RH2203D622	MCR10EZJ224 220KOHM 5% 1/8W 2012 R
			R105	0RH0000D622	MCR10EZJ000 0OHM 5% 1/8W 2012 R/TP

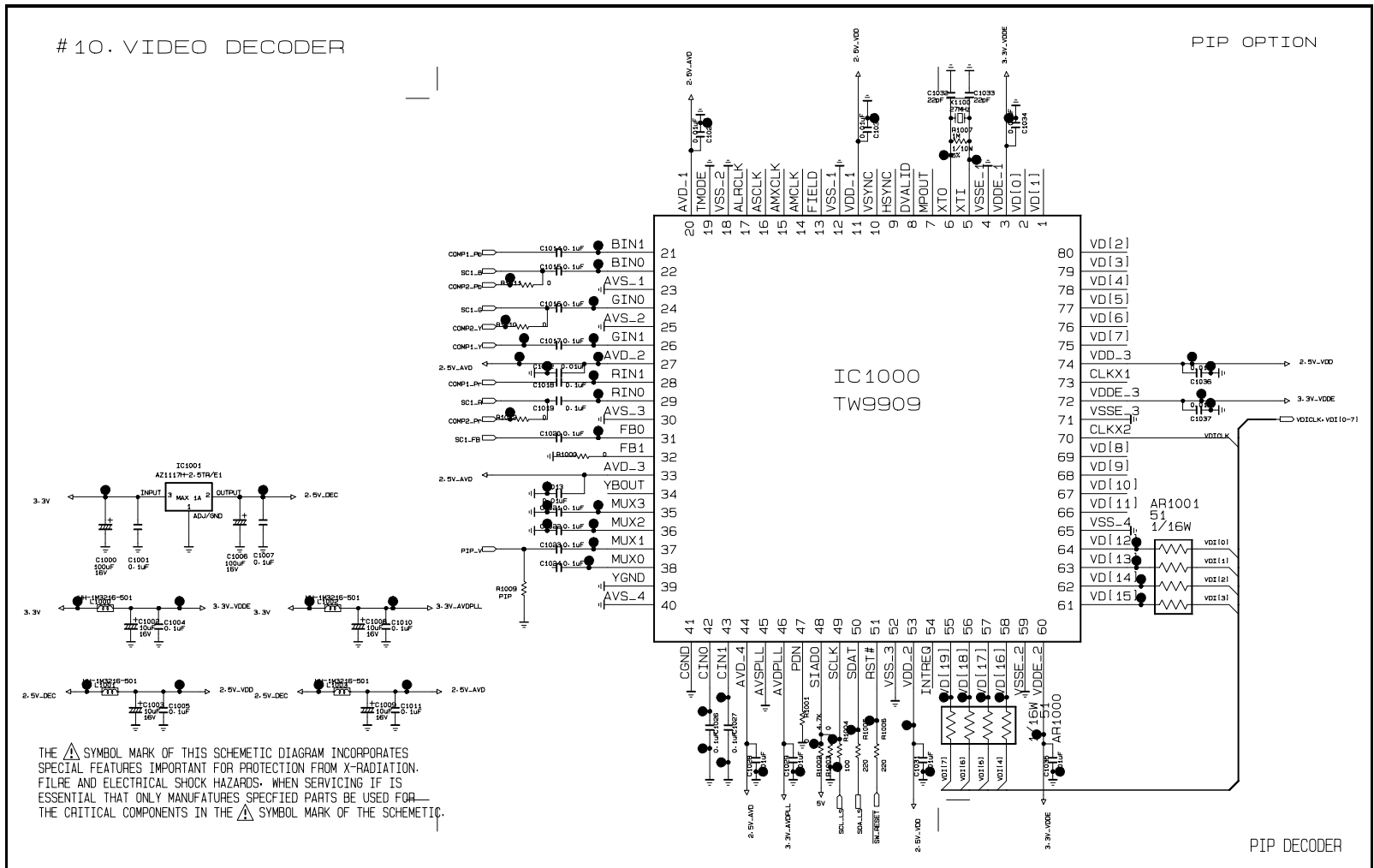
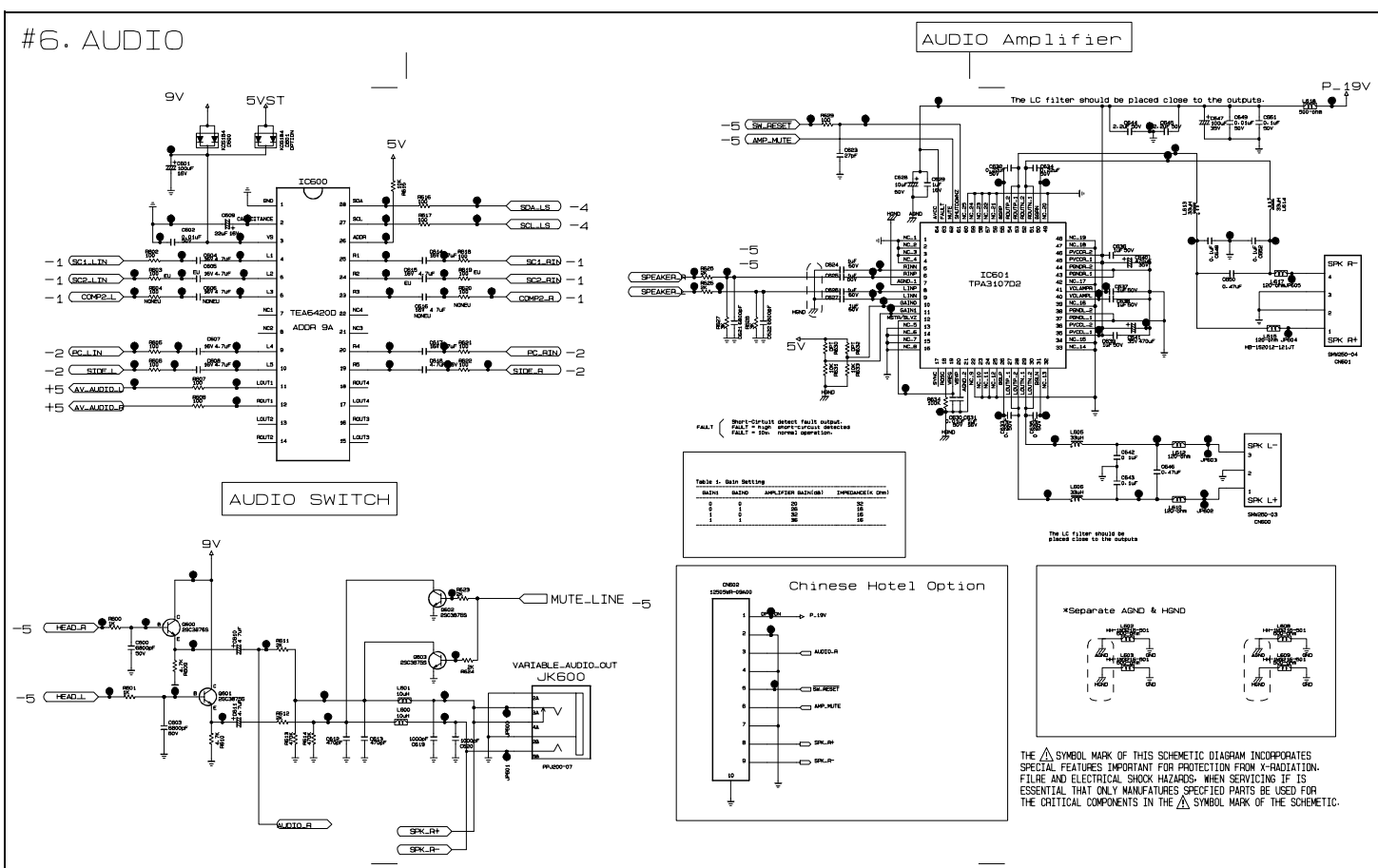
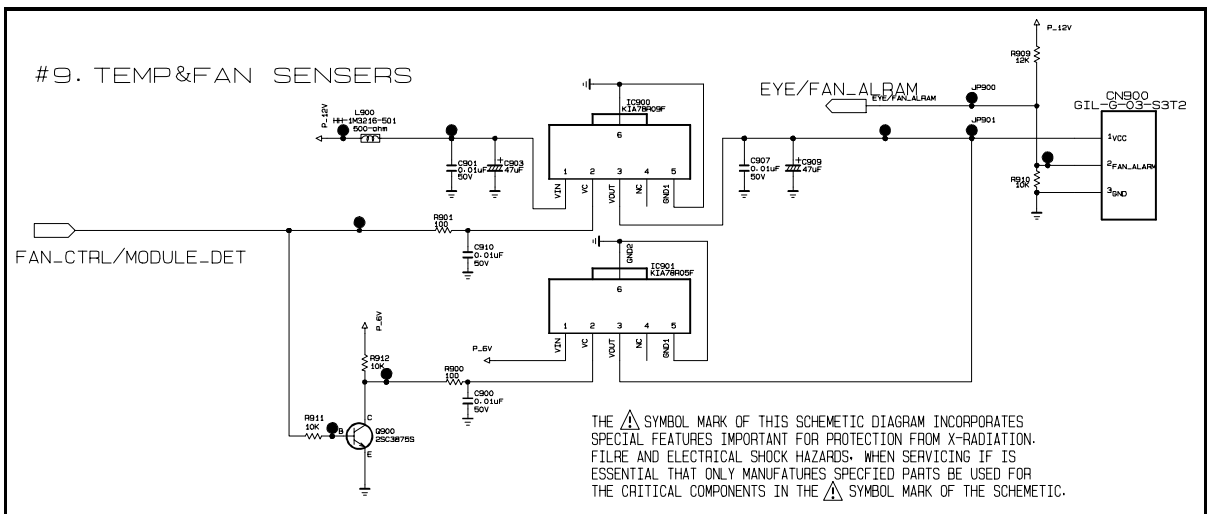
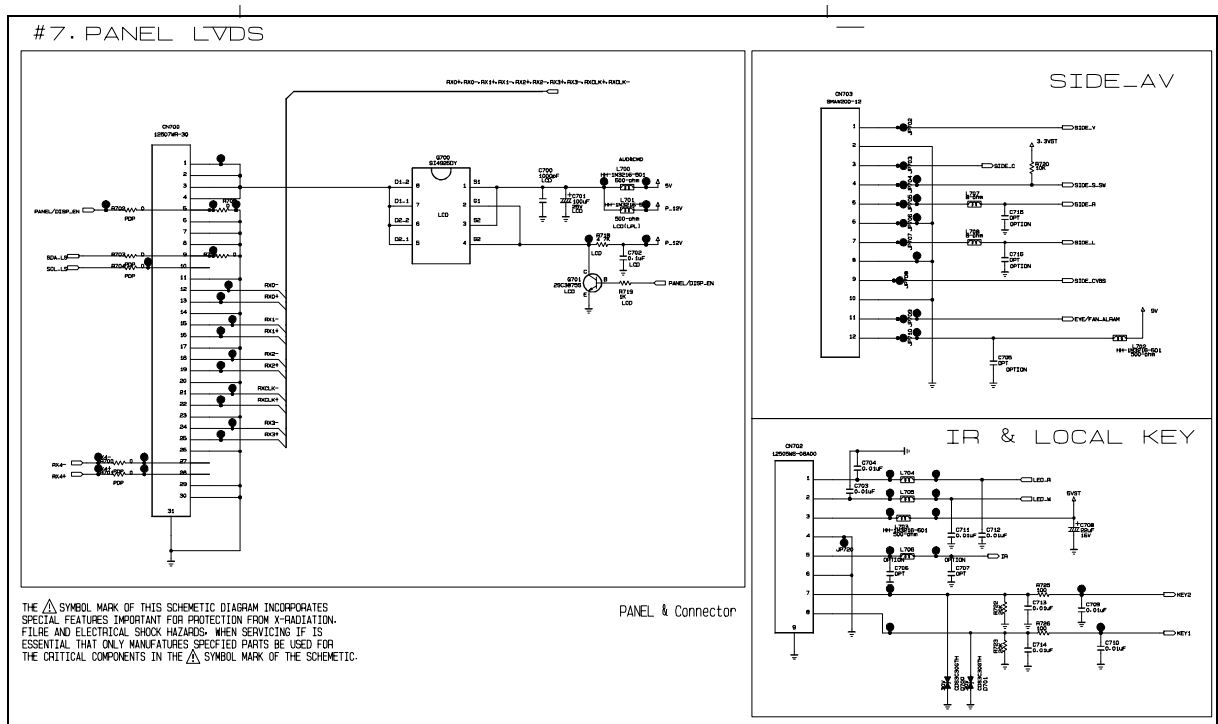
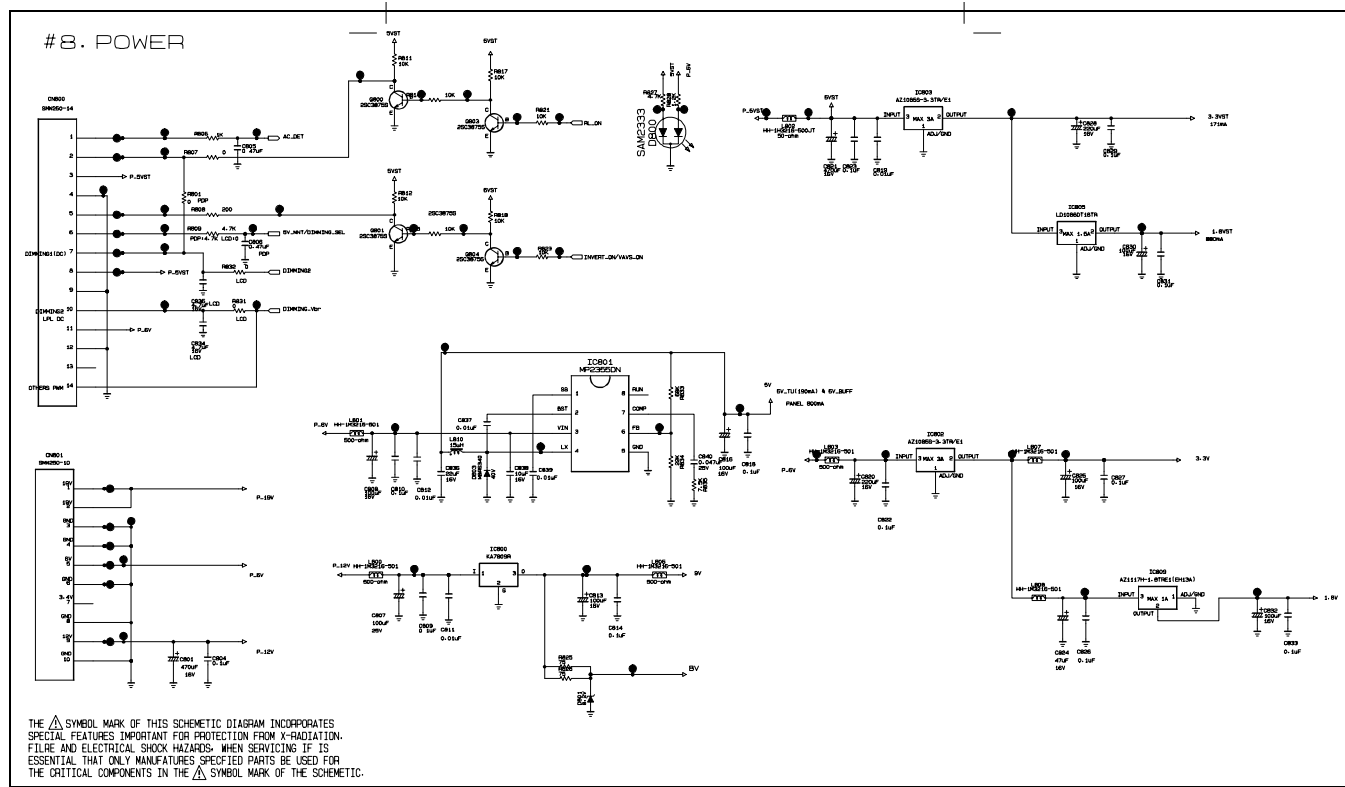
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R106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R232	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/
R106	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W 2012 R/T	R233	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608 R
R106	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	R234	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608
R107	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 2012 R	R235	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608
R107	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R239	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R107	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W 2012 R/T	R241	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R108	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R242	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R108	0RH9101D622	MCR10EZHJ912 9.1KOHM 5% 1/8W 2012 R	R243	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R108	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W 2012 R/T	R244	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R109	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R245	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R109	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W 2012 R/T	R246	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R110	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R247	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R110	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	R248	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R113	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R249	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R120	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R250	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R122	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R251	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R133	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R252	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R141	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R253	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R148	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R254	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R149	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R255	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/
R150	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R256	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R151	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R257	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R152	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R258	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R154	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R259	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R161	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R260	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R162	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R261	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R165	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R262	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R168	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	R263	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R169	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	R264	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R172	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/	R265	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	R266	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R200	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	R267	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R201	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	R268	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R202	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R269	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R203	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R270	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R204	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R271	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608 R
R205	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R272	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1608
R206	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R273	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1608
R207	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R3	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP
R208	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R300	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R209	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	R301	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R211	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R302	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608 R
R212	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R303	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608 R
R213	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R304	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R216	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R305	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R219	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R306	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R220	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R307	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R221	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R308	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R222	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608 R	R310	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608 R
R223	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R311	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608 R
R227	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R312	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/
R228	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R313	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/
R229	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 1608	R314	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/
R230	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/	R315	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R316	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R401	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608 R
R317	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R402	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608 R
R318	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R404	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 1608
R319	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R405	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R320	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R407	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R321	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R408	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608 R
R322	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R410	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R323	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R411	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R324	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R412	0RJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W 1608 R/
R325	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R413	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608 R
R326	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R422	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608 R
R327	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608 R/	R424	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R328	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	R5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP
R329	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	R503	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10W 1608 R
R330	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R504	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608 R
R331	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R505	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608 R
R332	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R506	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608 R
R333	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R508	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R334	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R509	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10W 1608 R
R335	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R510	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R336	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R511	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R337	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R512	0RJ1802D677	MCR03EZPJ183 18KOHM 5% 1/10W 1608 R
R338	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608 R/	R513	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R338	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R514	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R339	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608 R/	R515	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R339	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R516	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R340	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608 R/	R517	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R340	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R518	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R341	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R519	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R342	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R520	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R344	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R521	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R345	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/	R522	0RJ6201D677	MCR03EZPJ622 6.2KOHM 5% 1/10W 1608
R346	0RJ1004D677	MCR03EZPJ105 1MOHM 5% 1/10W 1608 R/	R523	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R347	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608 R	R524	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R349	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R527	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R350	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R528	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R352	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R529	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R353	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R530	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R354	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R531	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R355	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R532	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R356	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R533	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R358	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R534	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R359	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/	R535	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/
R361	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	R536	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/
R362	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R537	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R363	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R538	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R364	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	R540	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R365	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R541	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R366	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R542	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R367	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608 R/	R543	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R368	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608 R/	R544	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R369	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608 R/	R545	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R370	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R546	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R371	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R547	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	R548	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R549	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R703	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R550	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R704	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R551	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R720	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R552	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R722	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 1608
R554	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R723	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 1608
R555	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608 R	R725	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R556	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R726	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R
R557	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R8	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP
R558	0RJ8201D677	MCR03EZPJ822 8.2KOHM 5% 1/10W 1608	R801	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R559	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R806	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/
R560	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R807	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R561	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	R808	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W 1608 R
R563	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608 R/	R809	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608
R564	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608 R/	R810	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T
R570	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T	R811	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R573	0RJ2702D677	MCR03EZPJ273 27KOHM 5% 1/10W 1608 R	R812	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R575	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R814	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R6	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	R815	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R600	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R817	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R601	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/	R818	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R602	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R821	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R604	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R823	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R605	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R825	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/
R606	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R826	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/
R607	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R827	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R
R608	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	R828	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W 1608
R609	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R833	0RJ6802D677	MCR03EZPJ683 68KOHM 5% 1/10W 1608 R
R610	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608	R834	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R
R611	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	R835	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 1608
R612	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	HARNESSs & CONNECTORS		
R613	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608	C1	6631900012D	Harness, 6631900012D SMH250 SMH250 250mM 2.5
R614	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608	C2	6631900104C	Harness, SMH200 SMH250 300mM 2/2.5MM 12P UL1
R615	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	C3	6631900105D	Harness, SMH200 SMP250 600mM 2.00MM 12P UL11
R616	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C4	6631T20034C	Harness, 6P 2.0MM 220MM SMH200-06P SMH200-06
R617	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C5	6631T39004D	Harness, 6631T39004D 1-1123722-9 1-1123722-9
R618	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C6	6631V39013N	Harness, 1-1123722-8 1-1123722-8 900mM 3.96M
R620	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C7	EAD30301901	Harness, DMS 4P CONNECTOR ASSY SMH200-04P SM
R621	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C8	EAD35682503	Harness, LVDS PDP STD_300MM FH12524-31(Foosu
R622	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 1608 R	C9	EAD35862901	Harness, SMH250-13 SMH250-14 300MM 2.50MM 13
R623	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	C10	EAD36265501	Harness, SMH250 SMP250 700MM 2.50MM 3P UL100
R624	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	C11	EAD36774101	Harness, 8P 1533(SHIELD) 12505HS-8 12505HS-8
R625	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	JK201	6630G70016A	A03-7071-094 D-SUB 15P 2.29MM STRAI
R626	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608 R/	CN100	6602T12005G	Wafer, 12505WR-08A00 8P 1.25MM 1R ANGLE SM
R627	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608 R/	CN101	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DIP
R628	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608 R/	CN200	6630VF00704	Wafer, 12505WS-04A00 4P 1.25MM 1R STRAIGHT
R629	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R	CN501	366-932B	Wafer, GIL-G-03P-S3T2-E(TYPOE) 3P 2.50MM 1
R631	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	CN600	6602T25008B	Wafer, SMW250-03P 3P 2.50MM 1R STRAIGHT DI
R633	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R	CN601	6602T25008C	Wafer, SMW250-04P 4P 2.50MM 1R STRAIGHT DI
R634	0RJ1003D677	MCR03EZPJ104 10KOHM 5% 1/10W 1608	CN700	6630VF00530	Wafer, 12507WR-30A00 30P 1.25MM 1R ANGLE S
R635	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	CN702	6630VF01608	Wafer, 53398-0890 8P 1.25MM 1R STRAIGHT SM
R636	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	CN703	6602T20009L	Wafer, SMAW200-12P 12P 2.00MM 1R ANGLE DIP
R7	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP	CN800	6602T25008N	Wafer, SMW250-14P 14P 2.50MM 1R STRAIGHT D
R700	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005 R/T	CN801	6602T25008J	Wafer, SMW250-10P 10P 2.50MM 1R ANGLE DIP
R701	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005 R/T			
R702	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/T			

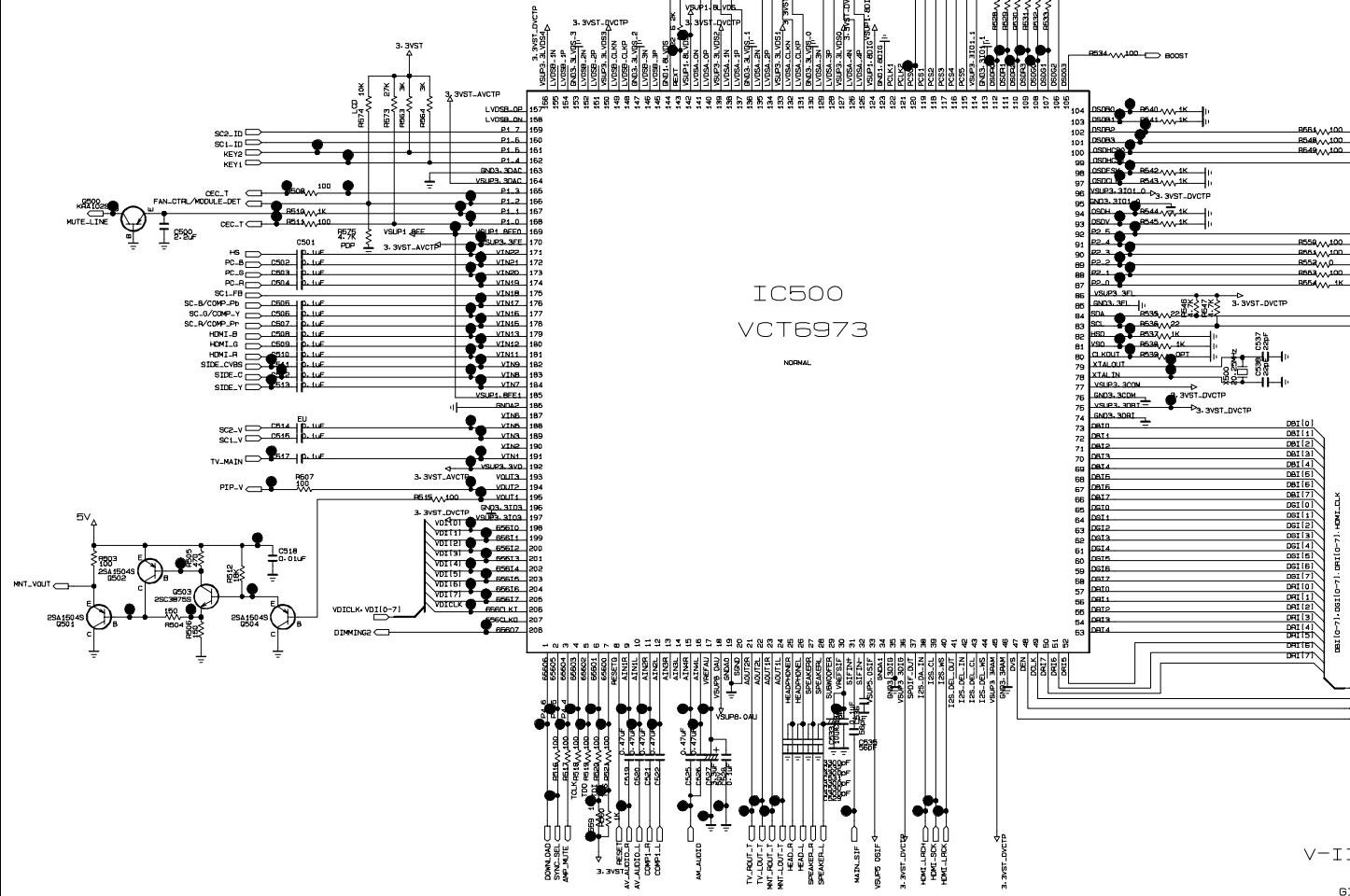
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
P100	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DIP	A6	4950TKA320A	Plate, PRESS SBHG T1.2 SUPPORT UPSET
P101	6602T20008L	Wafer, SMW200-12P 12P 2.00MM 1R STRAIGHT D	A7	FAB30021701	Screw, Machine 1SZZVMR001A RING WALL 5MM 25MM
P2	366-932B	Wafer, GIL-G-03P-S3T2-E(TYPOE) 3P 2.50MM 1			
JACKs					
J100	6612J10033A	PMJ016-13 13P DIN/RCA 14MM ANGLE DI			
JK100	6612J10033A	PMJ016-13 13P DIN/RCA 14MM ANGLE DI			
JK102	6612J10003Y	PPJ216-01 14.0MM 1RX3C STRAIGHT BK			
JK102	6612J10003M	PPJ206-01 14.0MM 1RX3C STRAIGHT BK			
JK103	6612J10003M	PPJ206-01 14.0MM 1RX3C STRAIGHT BK			
JK200	6612J10031A	PPJ209-02 14.0MM 1RX5C STRAIGHT TR			
JK202	6612J10031A	PPJ209-02 14.0MM 1RX5C STRAIGHT TR			
JK204	6612F00099A	PEJ024-01 1P 4P STRAIGHT TR 3.6MM B			
JK300	6612B00015C	DC1R019WDH. SOCKET 21P STRAIGHT SMD			
JK301	6612B00015C	DC1R019WDH. SOCKET 21P STRAIGHT SMD			
JK600	6612J10043A	PPJ200-07 15MM 1RX4C ANGLE BK 3P D			
SWITCHs					
SW101	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW102	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW103	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW104	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW105	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW106	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW107	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW108	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZON			
SW500	EBF32593901	TMUE312GAB 1C1P 12VDC 0.5A VERTICAL			
OTHERs					
B1	MAY32943802	Box, DW3 1270 150 348 NO PRINTING			
B2	MAY34211101	Box, BOX DW 1286 787 364 2 COLOR			
IC100	6712000013A	Receiver Module, TSOP4438SO1 4.5TO5.5V 1.5MA			
SA1	SAA30955101	S/W,Firmware 3.15 8FA9 WORLD WIDE FLASH ROM			
TU400	EBL35311203	Tuner, Tuner/Modulator TAFT-Z003D PAL-G+I+.. 38.9M			
ACCESSORY					
A1	SAC30653105	Title, H4 NEU all CD MANUAL			
A1	3828TUL306A	Manual, SAFETY INFORMATION ONE GUIDE BOOK			
A1	MFL34471914	Manual, Owners IN/EN IN LOCAL LGESA			
A1	MFL34471902	Manual,Owners TH Thai/EN 010A TX			
A1	MFL37396703	Manual, Owners NEU en H4 simple book LGEIN/ML			
A1	MFL37396704	Manual,Owners NEU HK en H4 simple book HK			
A1	MFL37396707	Manual, Owners NEU AR/EN/FR H4 simple book			
A1	MFL37396709	Manual, Owners NEU GOLDIRAN FARSI/EN H4 simple book			
A2	MKJ32022826	Remote Controller, COMPLEX PA71A 50PBRT H4			
A21	3550V00590A	Cover, MOLD ABS BATTERY TN-50PY20			
A3	EAD36430001	Power Cord, 1.87M BLACK LGESL			
A3	EAD36223101	Power Cord, 1.87M BLACK LGEMC/GOLDIRAN/LGEIN			
A3	EAD36441001	Power Cord, 1.87M BLACK LGESA			
A4	4972V00178A	Supporter, COMPLEX METAL ASSY PDP SET			
A5	3880TKZ004D	Bag, COMPLEX VINYL 200*200 0.58			



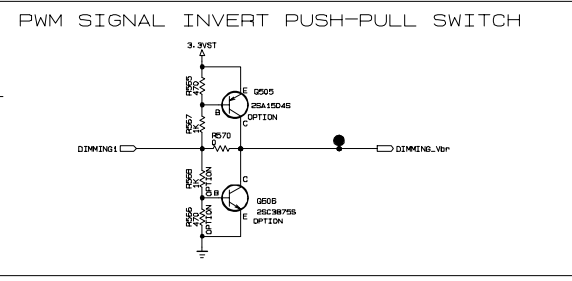


#5. VCTP

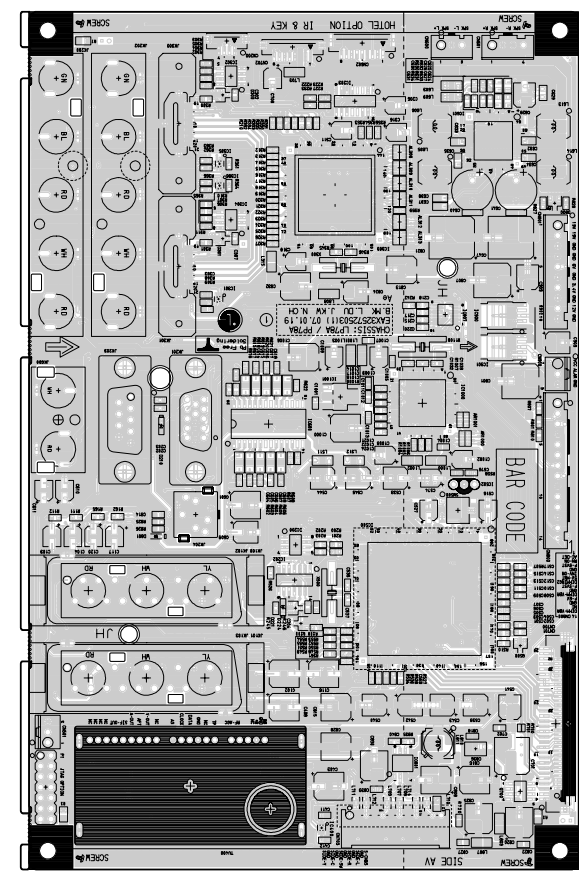
SCALER



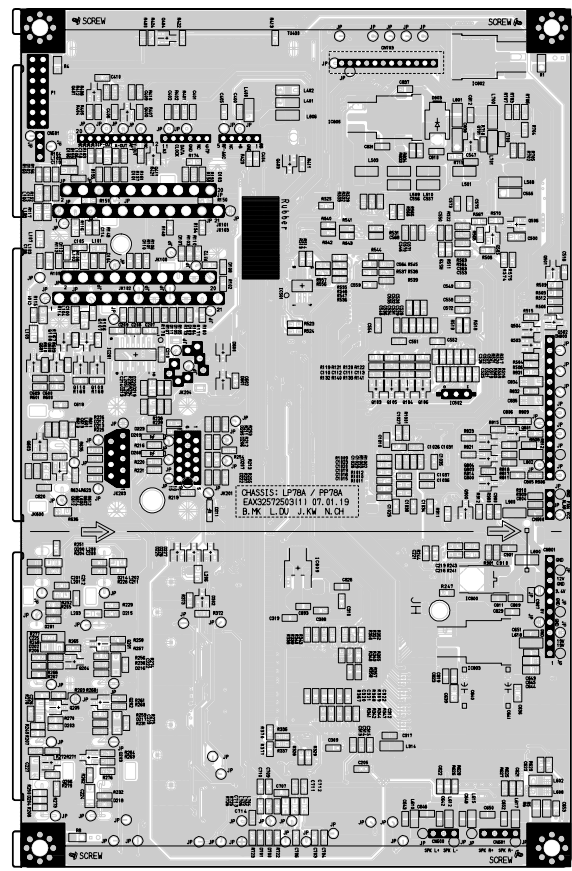
THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.



MAIN(TOP)

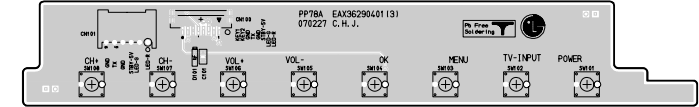


MAIN(BOTTOM)

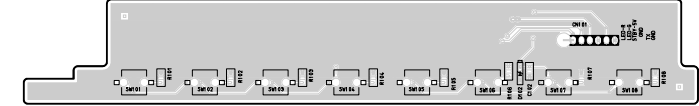


PRINTED CIRCUIT BOARD

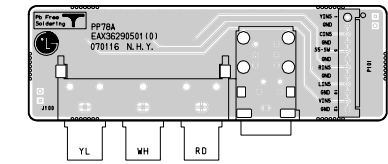
CONTROL(TOP)



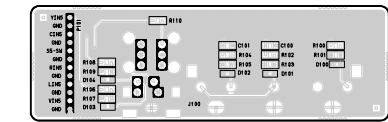
CONTROL(BOTTOM)



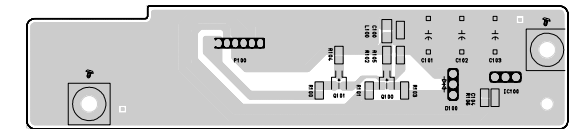
SIDE A/V(TOP)



SIDE A/V(BOTTOM)



IR/LED





P/NO : MFL34335207

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Printed in Korea

