



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

PLASMA TV

SERVICE MANUAL

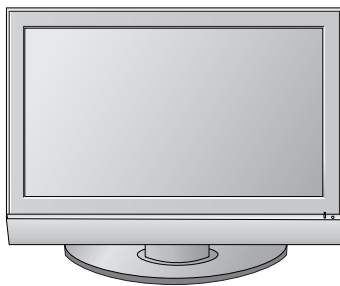
CHASSIS : PP78A

MODEL : 42PC51

42PC51-ZB

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 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 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 its 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.

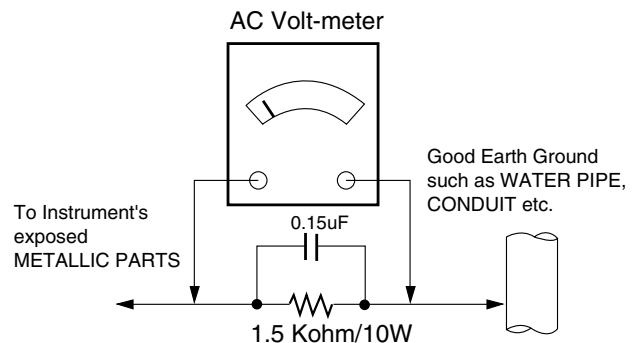
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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 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	42PC51-ZB	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
42PC51-ZB	EU	Safety : IEC/EN60065, EMI : EN55013, EMS : EN55020	TEST

■ General Specification (42"XGA 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	PDP42X4, RGB Closed Type	Clear 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 Specification1 (PDP42X4)

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	921.5 (H) * 519.0(V)±0.5			mm	
2	Outline dimension	1005 (W) x 597 (H) x 60.7 (D)±1			mm	
3	Number of Pixels	1024 (H) x 768(V)				1Pixel=3RGB Cells
4	Cell pitch	300um (H) x 676um (V)			um	1Pixel=3RGB Cells
5	Color arrangement	RGB closed type				
6	Weight(net)	13.8	14.3	14.8	Kg	
7	Weight(gross)	192.5	197.5	202.5	Kg	5EA 1Box
	Item	Min	Typ	Max	Unit	Remark
8	Operating Environment	Temperature	0 ~ 40		deg	Altitude : 0 to 2000M
		Humidity	20 ~ 80		%	
		Pressure	800 ~ 1100		hPa	
9	Storage Environment	Temperature	-20 ~ 60		deg	Altitude : 0 to 3000M
		Humidity	10 ~ 90		%	
		Pressure	700 ~ 1100		hPa	
Image stick minimization mode	Start time	4.5	5	5.5	min	
	Low Brightness Arrival Time	14	15	16	min	

■ Module Specification2

No	Item	Specification	Remark
1	Market	EU	
2	Broadcasting system	PAL-BG/I/DK, NTSC, SECAM	
3	Available Channel	BAND	PAL
		VHF/UHF	C1~C69
		CATV	S1~S47
4	Receiving system	Upper Heterodyne	
5	SCART Jack(2EA)	PAL, SECAM, NTSC	FULL SCART, HALF SCART
6	Video Input (1EA)	PAL, SECAM, NTSC	SIDE AV
7	S-Video Input (1EA)	PAL, SECAM, NTSC	SIDE S-VIDEO
8	Component Input (1EA)	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 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

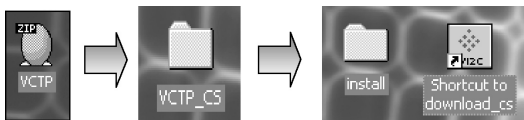
3.2. SET assembly adjustment items

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

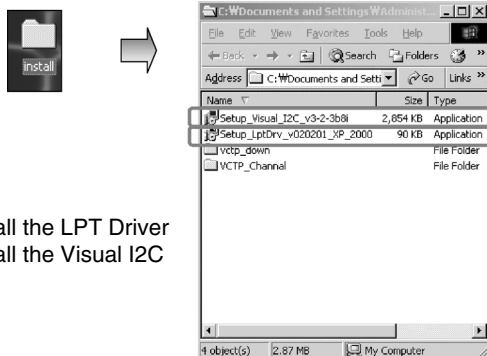
4. PCB assembly adjustment method (Using VCTP Download program)

4-1. Download program installation

- (1) Extract a Zip file.



- (2) Visual I2C & LPT Driver Installation.



Install the LPT Driver
Install the Visual I2C

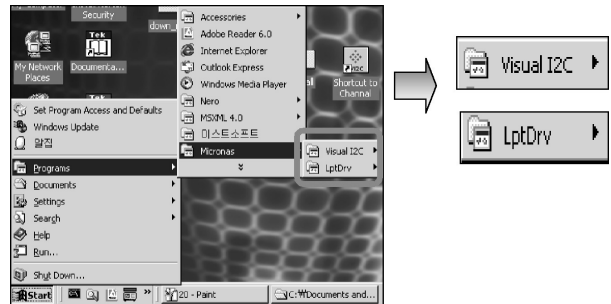
LPT Port Driver (LptDrv) Setups : Program Files > Micronas > Visual I2C > Port_Driver

*Use for Windows 95/98 : Setup_LptDrv_v0104_9x.exe

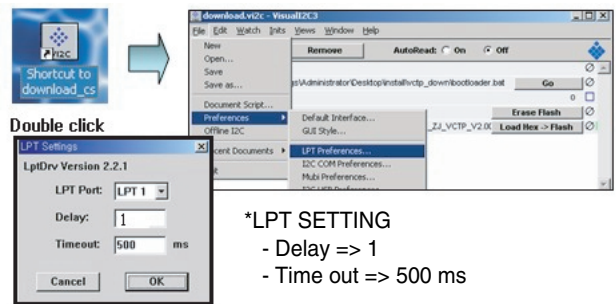
*Use for Windows 2000/XP : Setup_LptDrv_v0202_XP_2000.exe

*Use for Windows NT : Setup_LptDrv_v0104_NT.exe

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



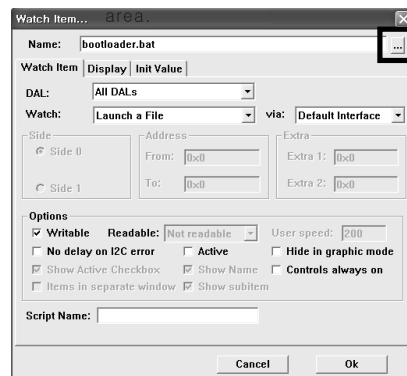
- (4) LPT delay setting.(File > Preference > LPT preferences)



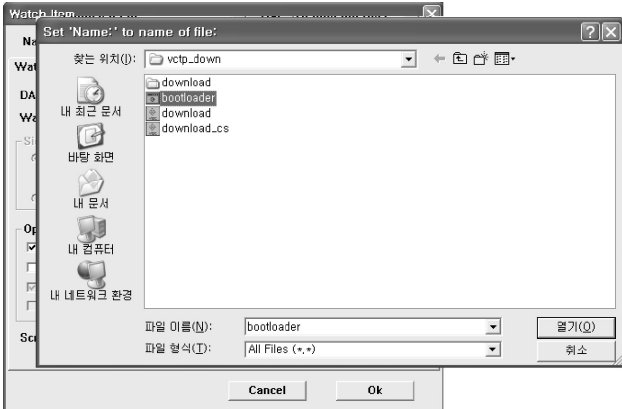
- (5) Exchange the "bootloader.bat" file.



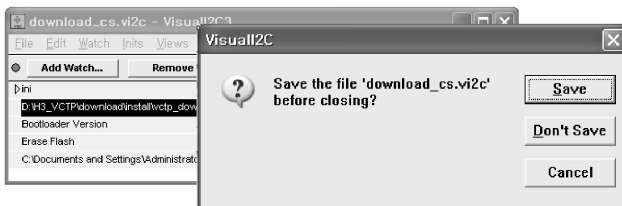
▶ Double click the Red



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

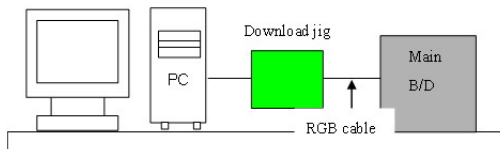
5-1. Profile

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

5-2. Required Test Equipment

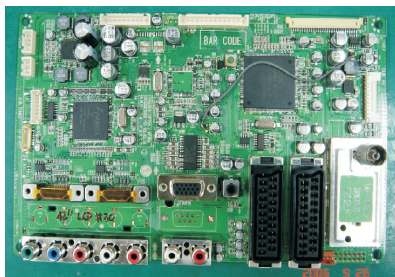
- (1) PC.
- (2) Visual IIC program.
- (3) Download jig.

5-3. Connection structure

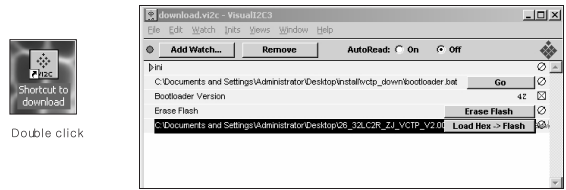


6. Download method

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.



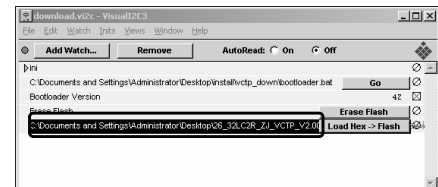
- (3) Double click the blue box and confirm "Bootloader Version" as 42.



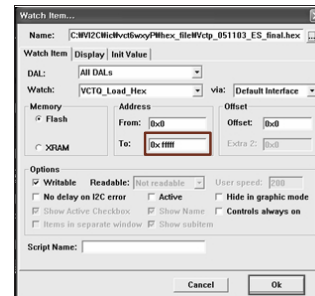
- (4) Click the "Erase Flash" button.



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

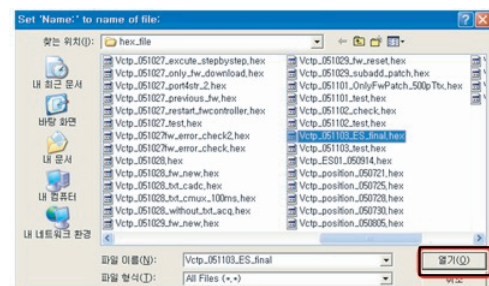


- (6) Click the choice button in the "edit window", then "file choice window" will be opened.



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.

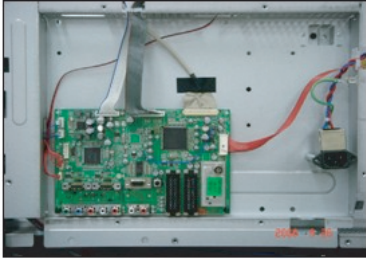


- (8) Click OK button at the "edit window".
- (9) Under Downloading process.

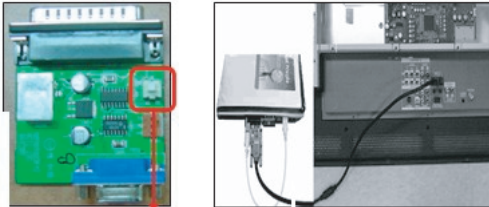


- (10) If download is failed, for example "No acknowledge from slave". Execute download again from(1).

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.

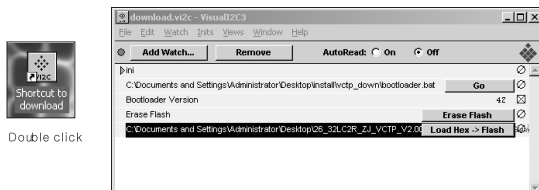


- (3) Push the S/W off.(Disconnect SCL to GND using switch at jig).

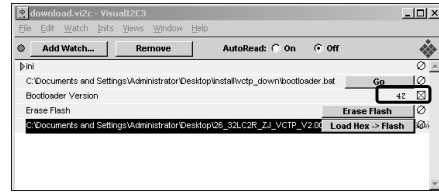


Push S/W

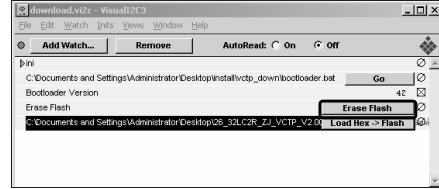
- (4) Execute 'Download.vi2c' program in PC, then a main widow will be opened.



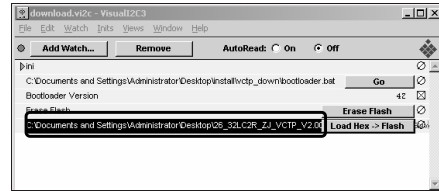
- (5) Double click the blue box and confirm "Bootloader Version" as 42.



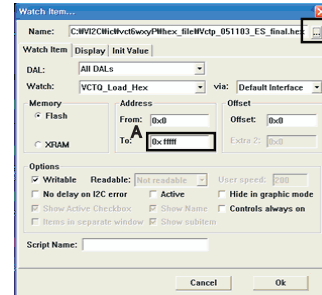
- (6) Click the "Erase Flash" button.



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

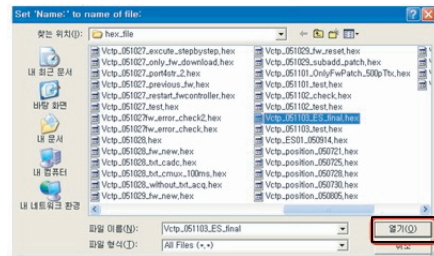


- (8) Chck the choice button I n the "edit window", then "file choice window' will be opened.

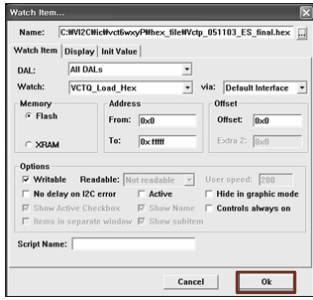


You must verify the words of "0xffff" in the black box(A) of figure. (In case of H3 Service it is 0x7ffff : If you make H4 service after the H3 service, there could be some problem)

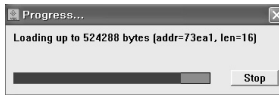
- (9) Click the "load > flash" button.
- (10) Choose the Hex file in folder and execute downloading with click "open button".



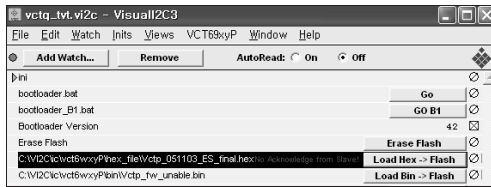
(11) Click OK button at the "edit window".



(12) Under Downloading progress.

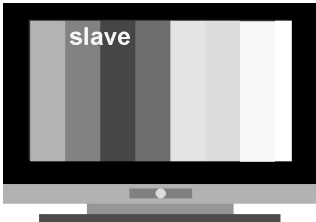


(13) If download is failed, for example "No acknowledge from slave", execute download again from (1).

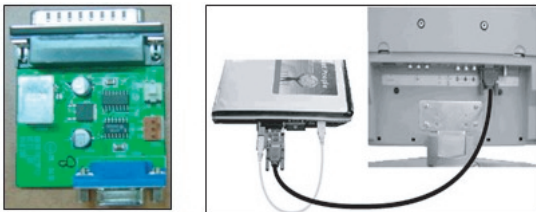


6-3.Download method 3 (SET)

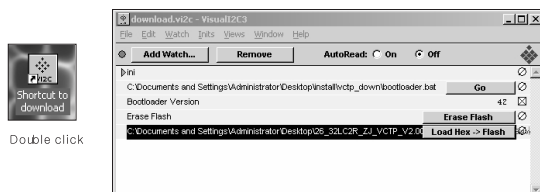
(1) Push the "Tilt" button in an Adjust Remocon Then the PLASMA TV will change a "slave mode".



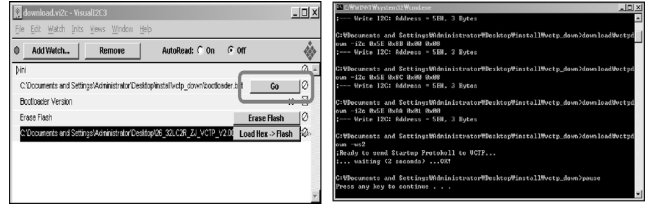
(2) Connect Zig to TV using a D-sub cable.



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

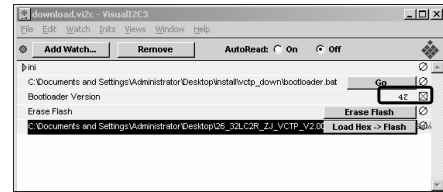


(4) Click "GO" button.



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.



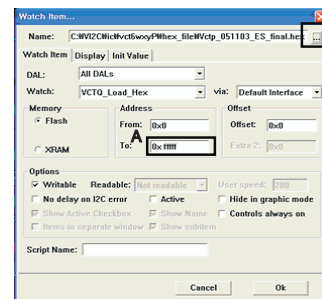
(6) Click the "Erase Flash" button.



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



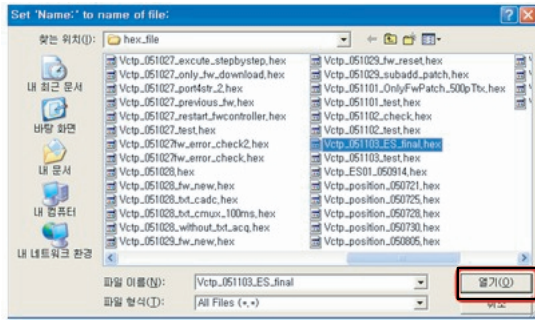
(8) Chck the choice button I n the "edit" window, then "file choice window" will be opened.



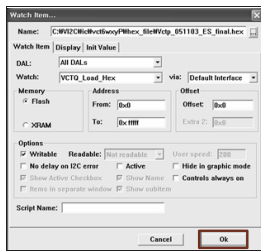
You must verify the words of "0xffff" in the black box(A) of figure. (In case of H3 Service it is 0x7fff : If you make H4 service after the H3 service, there could be some problem)

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

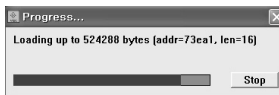
- (10) Choose the Hex file in folder and execute downloading with click "open button".



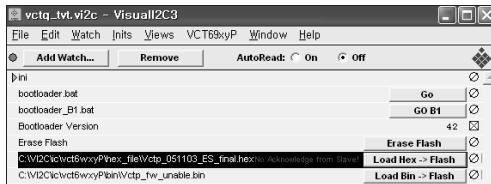
- (11) Click OK button at the "edit window".



- (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

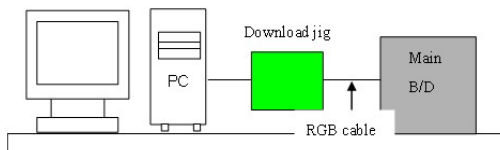
: This is for downloading the s/w to the flash memory of the vctq(IC500)

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

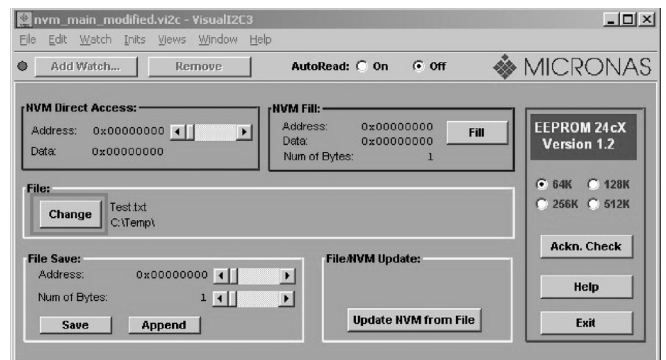
- (1) IC name and circuit number : VCTP and IC500.
- (2) Use voltage : 3.3V.
- (3) SCL : 15pin.
- (4) SDA : 12pin.
- (5) Tact time : about 3seconds.

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.

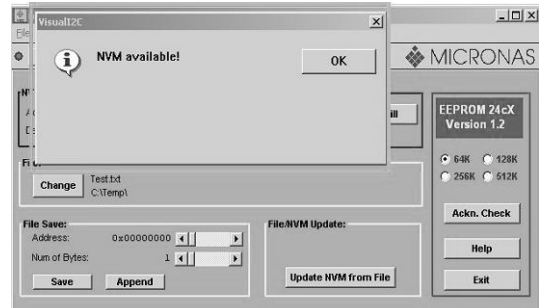


- (3) Push the button change and select the Channel memory data.

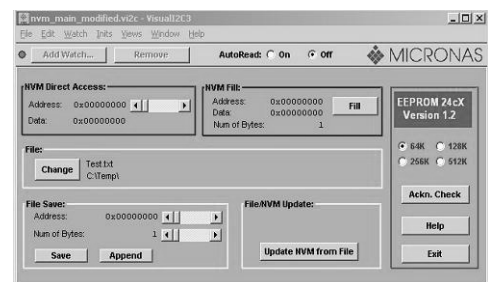


- (4) Check the communication is OK or not.

=> 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/ZB	TA/TB	
42	VGA	PC5R(PC51)	2244	4292
		PC6R	2500	4548
		PC7R	2756	4804
		PB3R	3012	5060
XGA	PC5R(PC51)	2252	4300	
		PC6R	2508	4556
		PC7R	2764	4814
		PB3R	3020	5068

* 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 color carrier 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/ZB, TA/TB : 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)

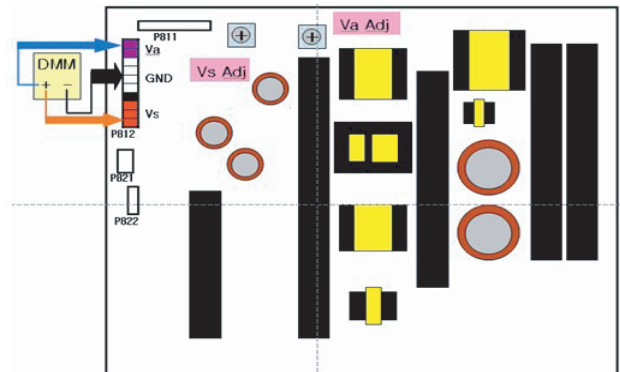
10-1. Profile

: 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 ; $\pm 0.5V$)

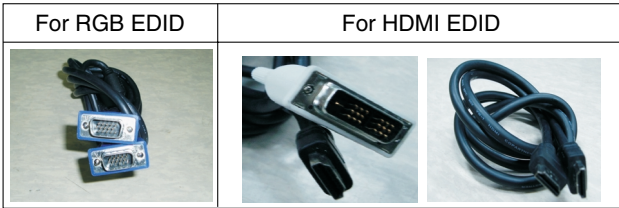
11. EDID(The Extended Display Identification Data) /DDC(Display Data Channel) download

11-1. Profile

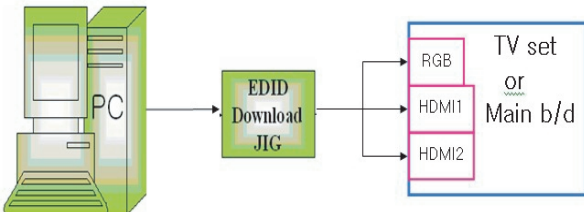
: To be possible for plug and play.

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

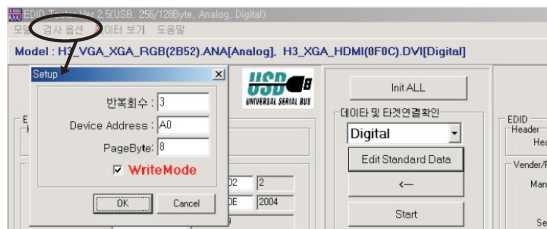
*** Caution**

- 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

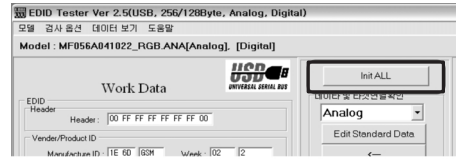


(4) Power on the Set.

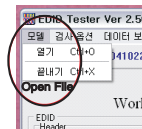
11-5. Sequence of Adjustment

(1) DDC data of Analog-RGB

1) Init the data.

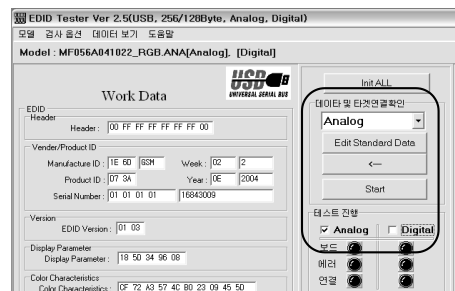


2) Load the EDID data.(Open File).

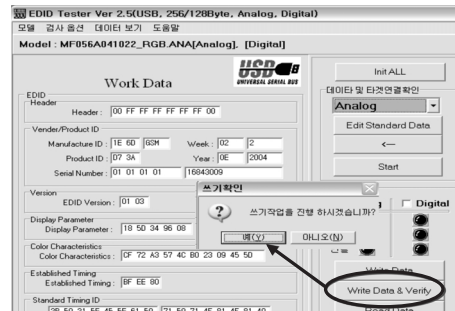


[Analog-RGB : PP78A_RGB.ANA]
[Digital-HDMI1 : PP78A_HDMI1.DVI]
[Digital-HDMI2 : PP78A_HDMI2.DVI]

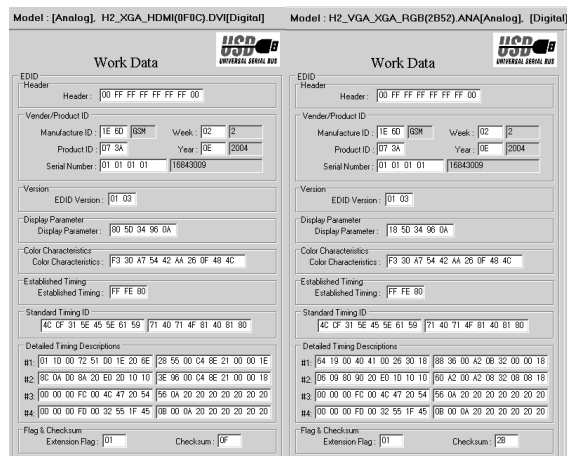
3) Set the S/W as below.



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



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



12. Adjustment of White Balance

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

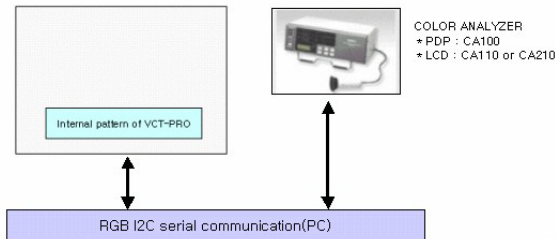
- (1) Purpose : Adjust the color temperature to reduce the deviation of the module color temperature.
- (2) Principle : To adjust the white balance without the saturation, Fix the one of R/G/B gain to 80 and decrease the others.

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	Δuv
	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	Δuv
	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

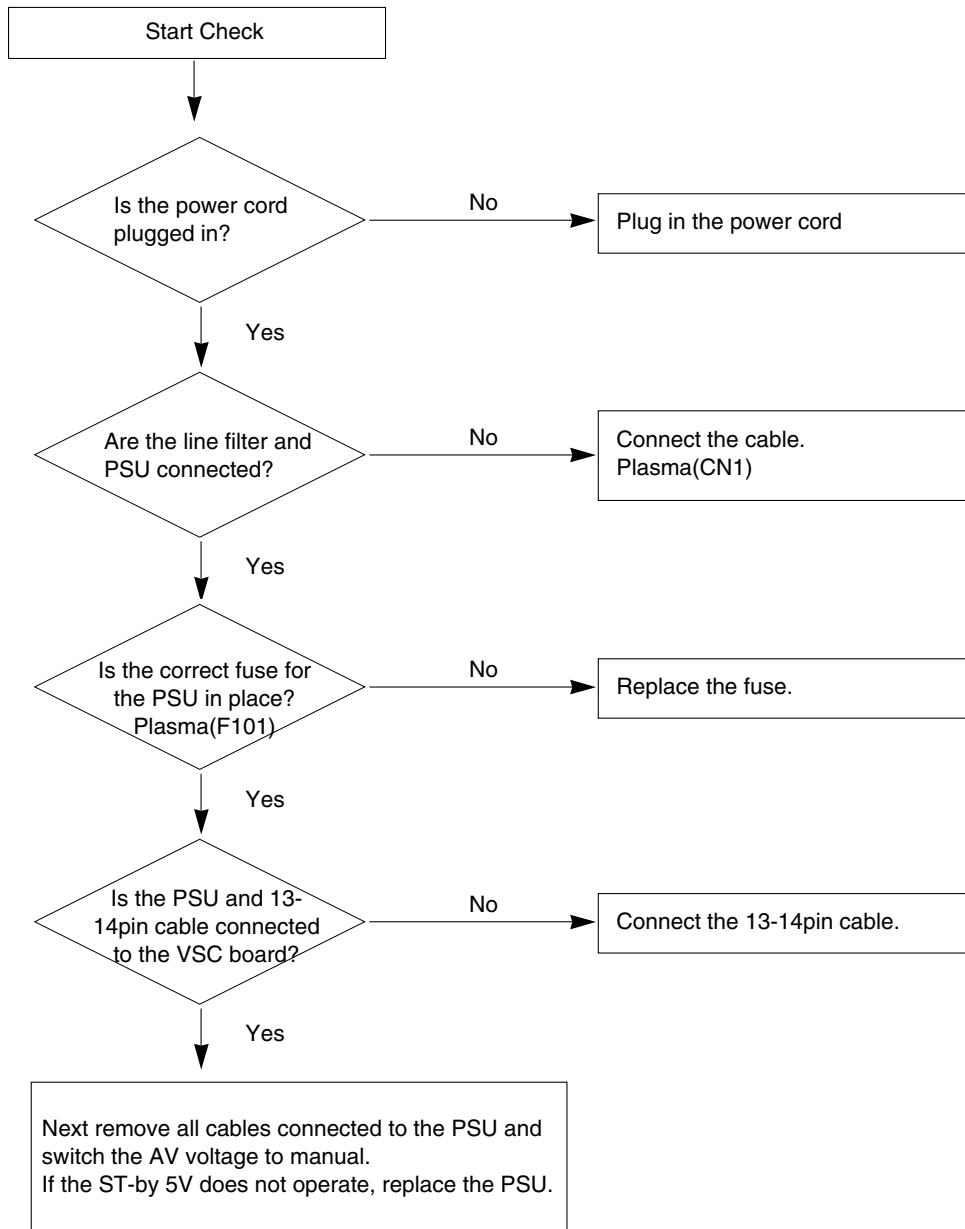
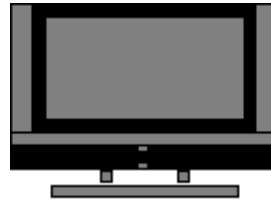
TROUBLESHOOTING

1. No power

(1) Symptom

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

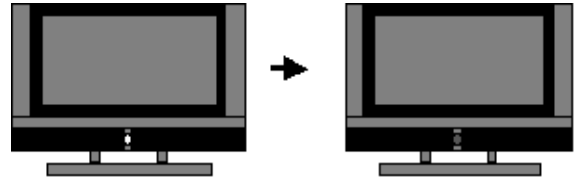
(2) Press check



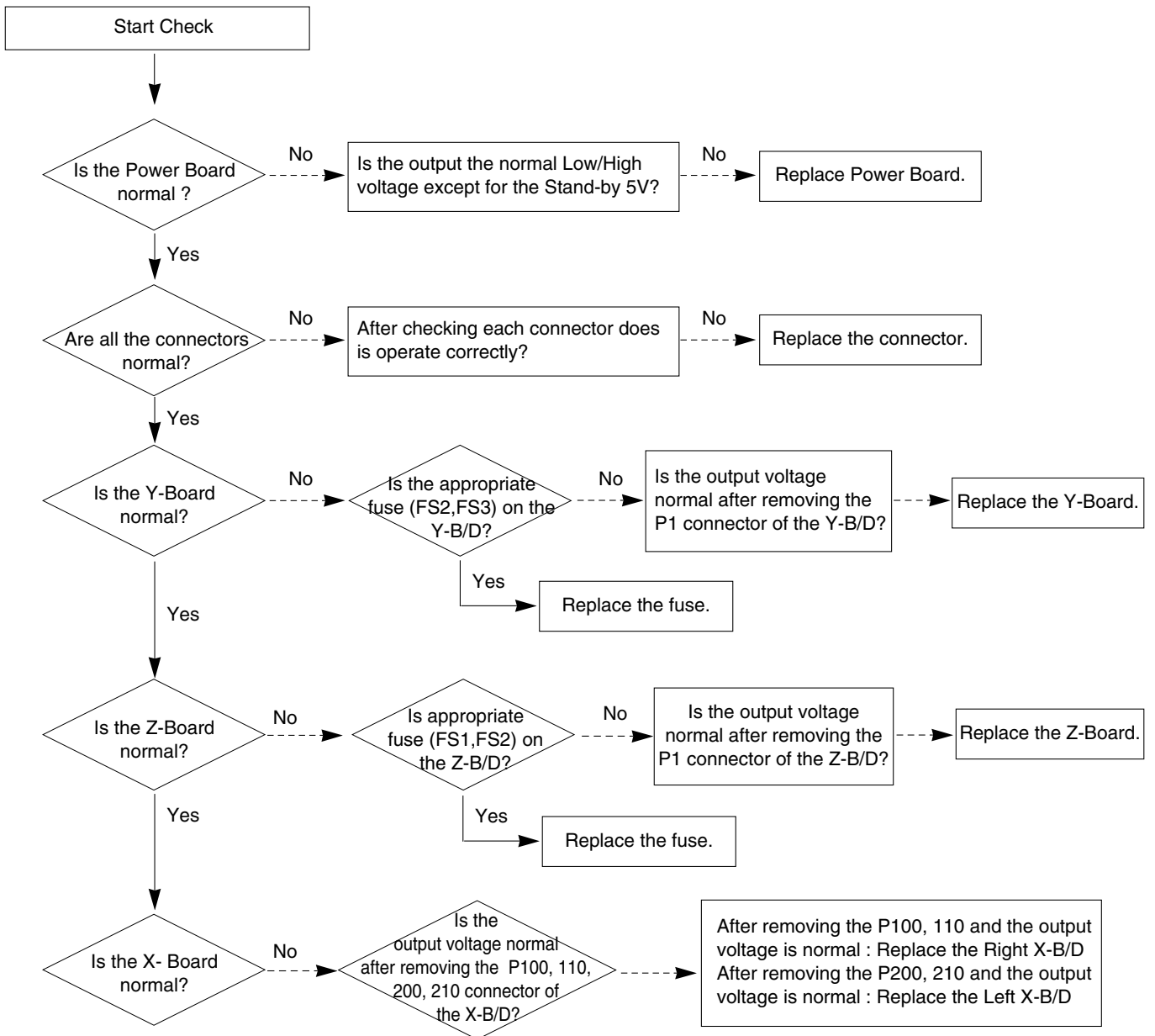
2. Protect mode

(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



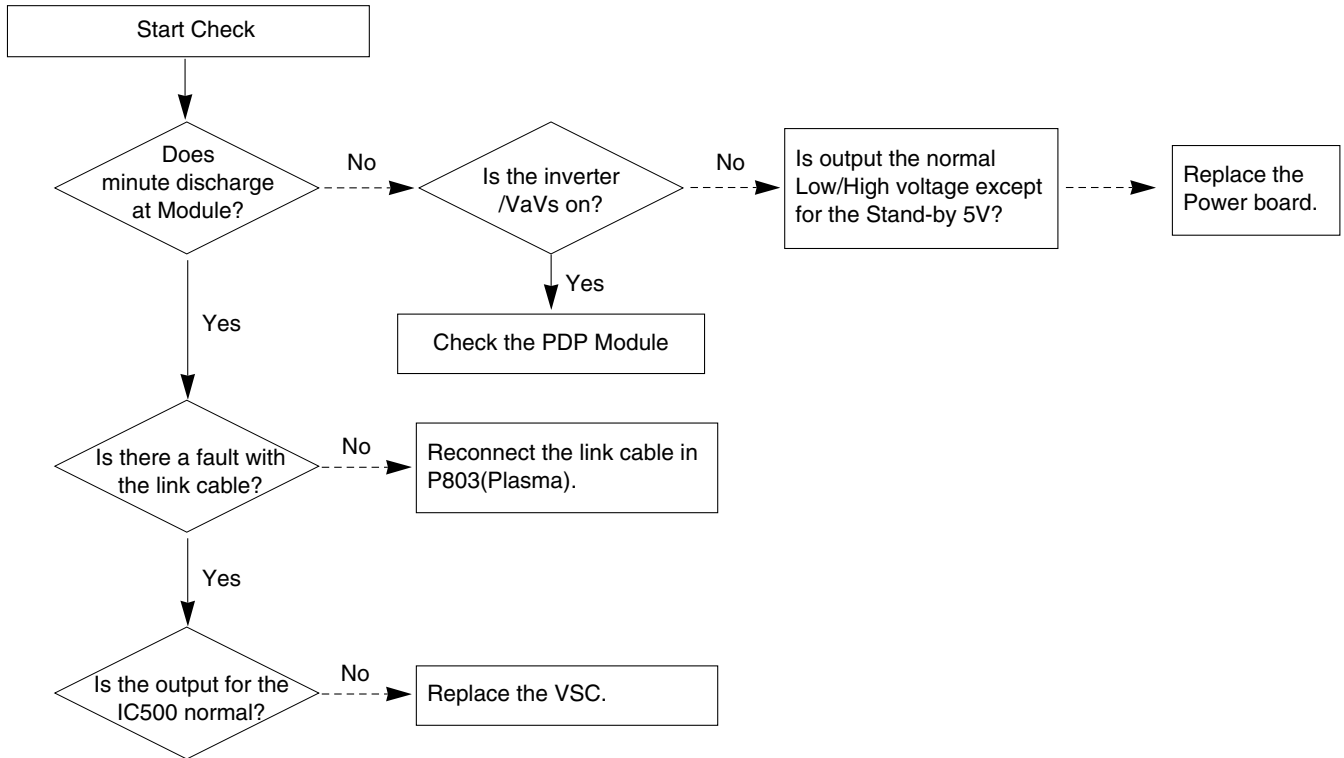
3. No Raster



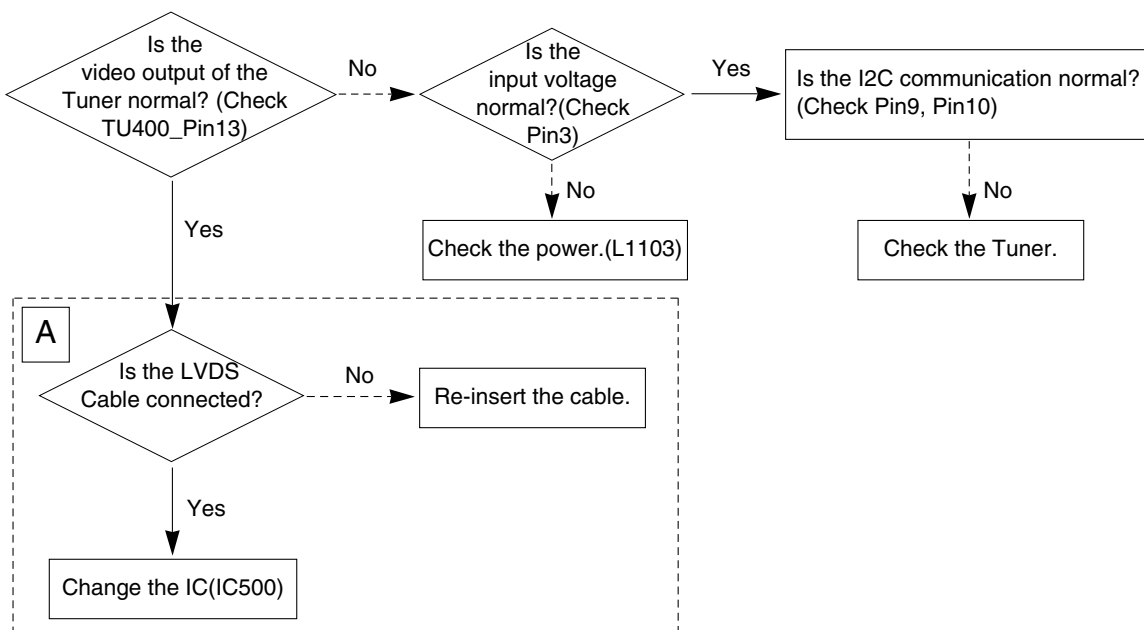
(1) Symptom

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

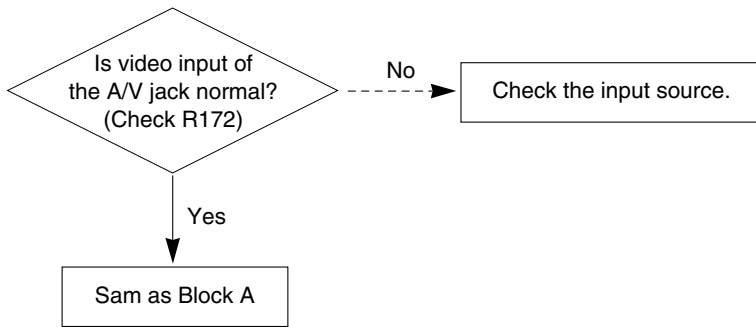
(2) Follow check



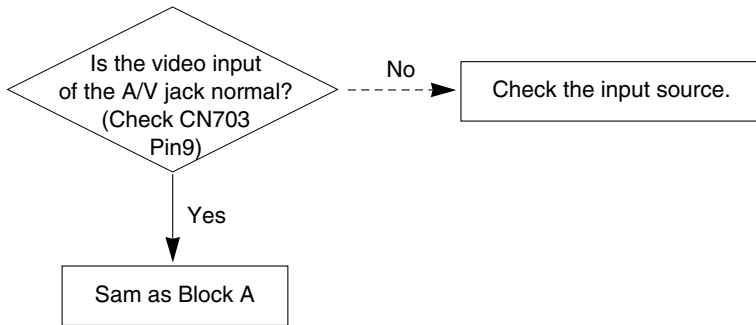
4. In the case an unusual display in RF mode.



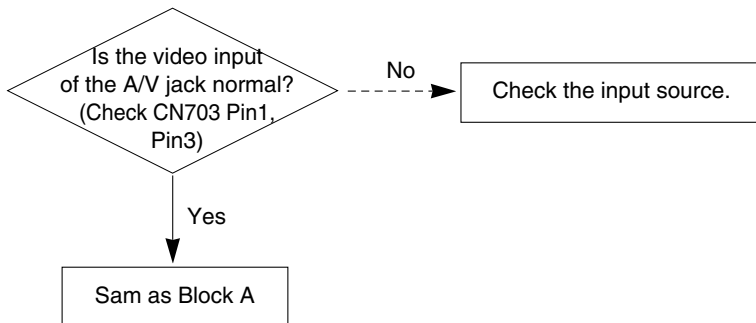
5. In the case of an unusual display in rear AV mode.



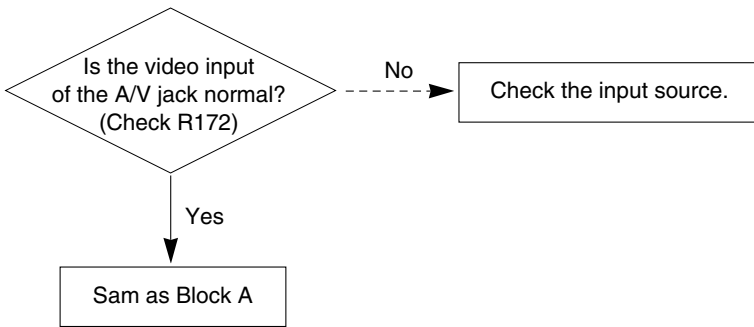
6. In the case of an unusual display in Side AV mode.



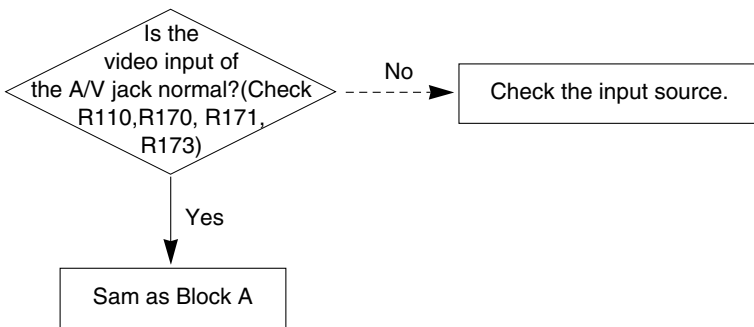
7. In the case of an unusual display in Side S-Video mode.



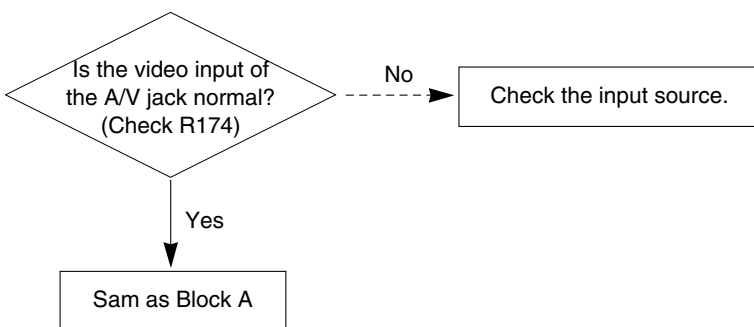
8. In the case of an unusual display in SCART 1 mode.



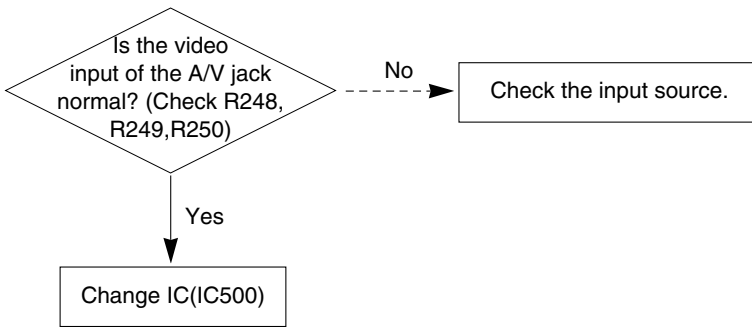
9. In the case of an unusual display in SCART 1_RGB mode.



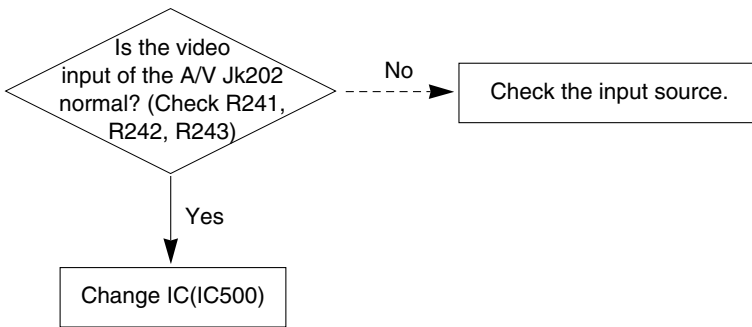
10. In the case of an unusual display in SCART 2 mode.



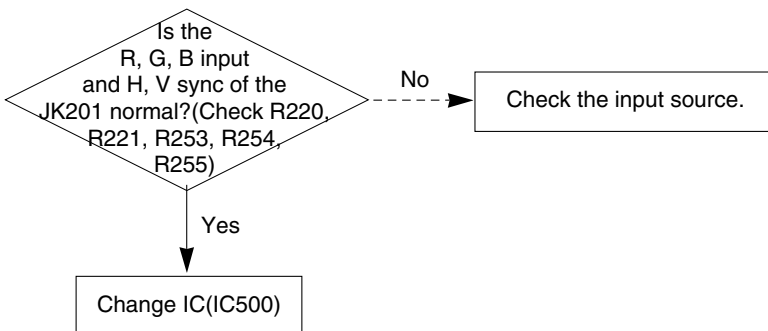
11. In the case of an unusual display in component 1 mode.



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



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

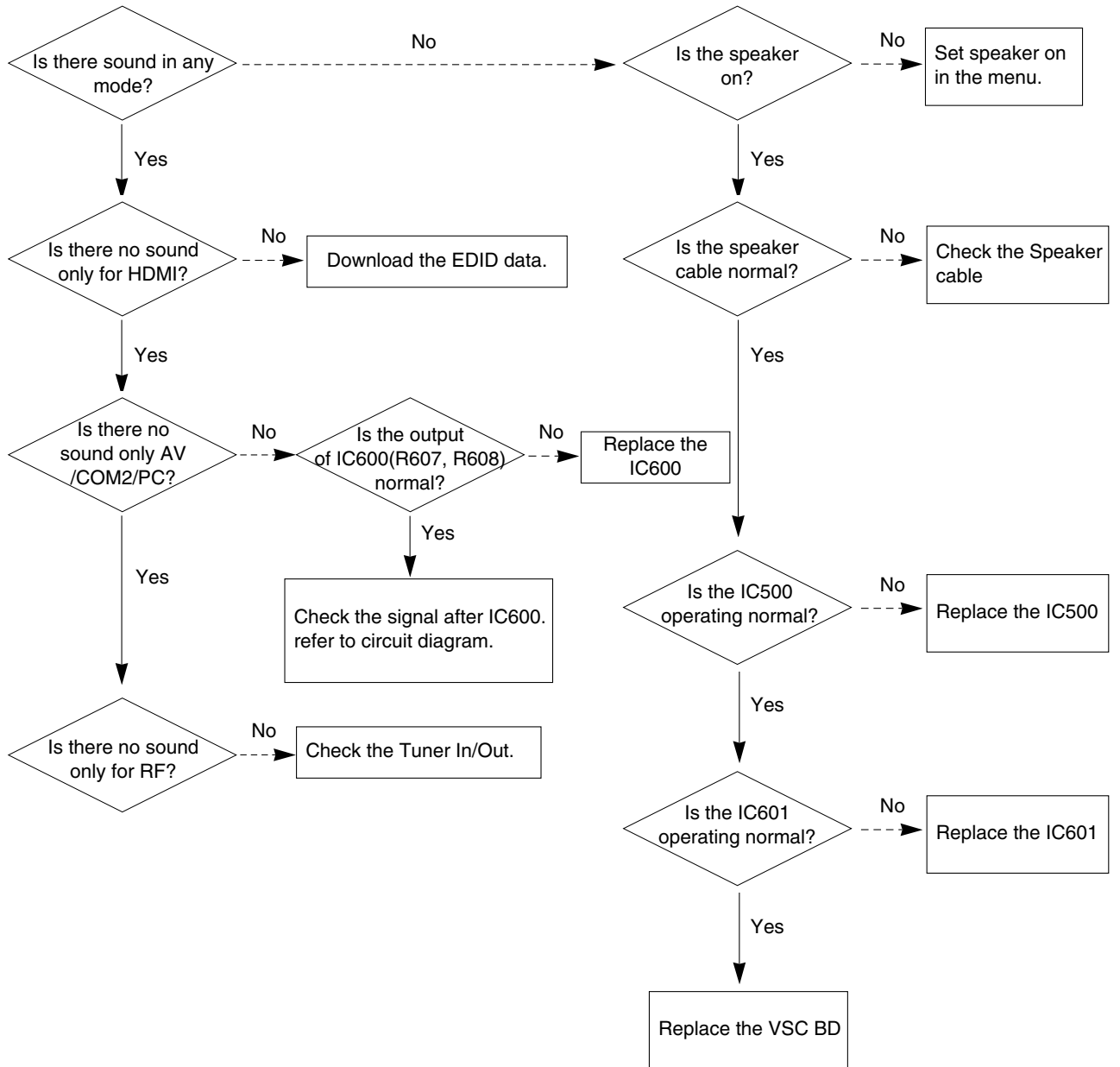


14. No Sound

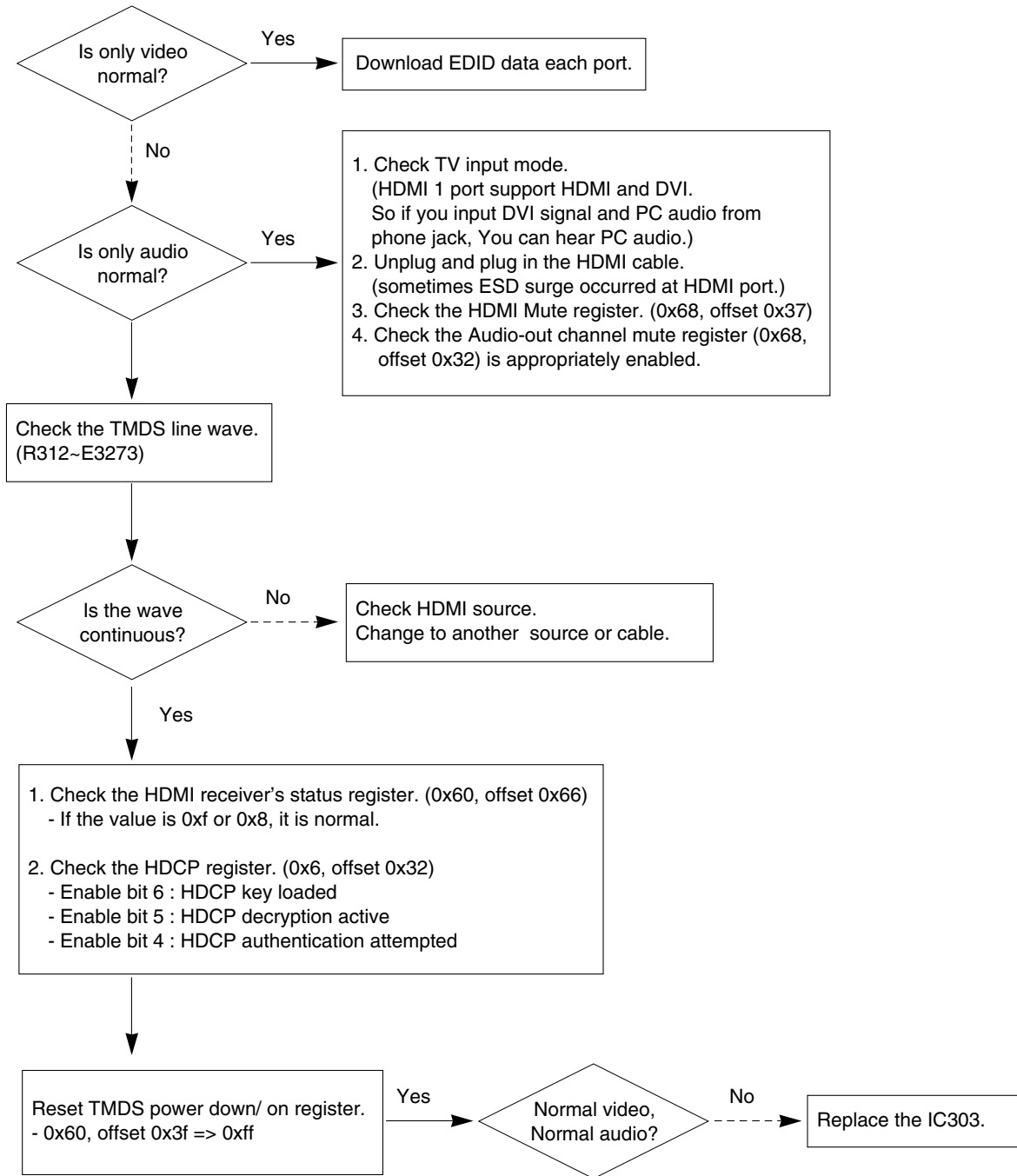
(1) Symptom

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

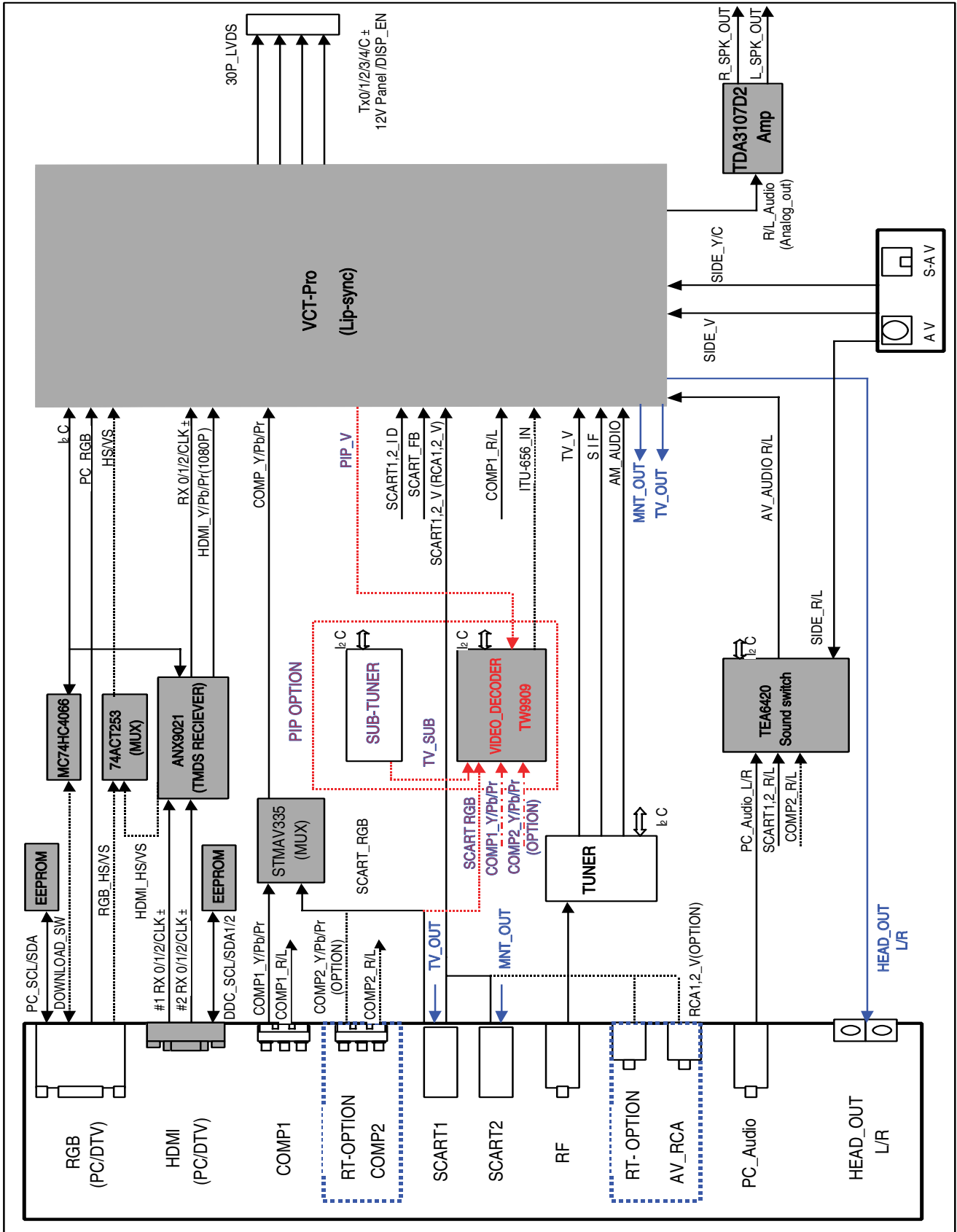
(2) Follow check



15. HDMI mode

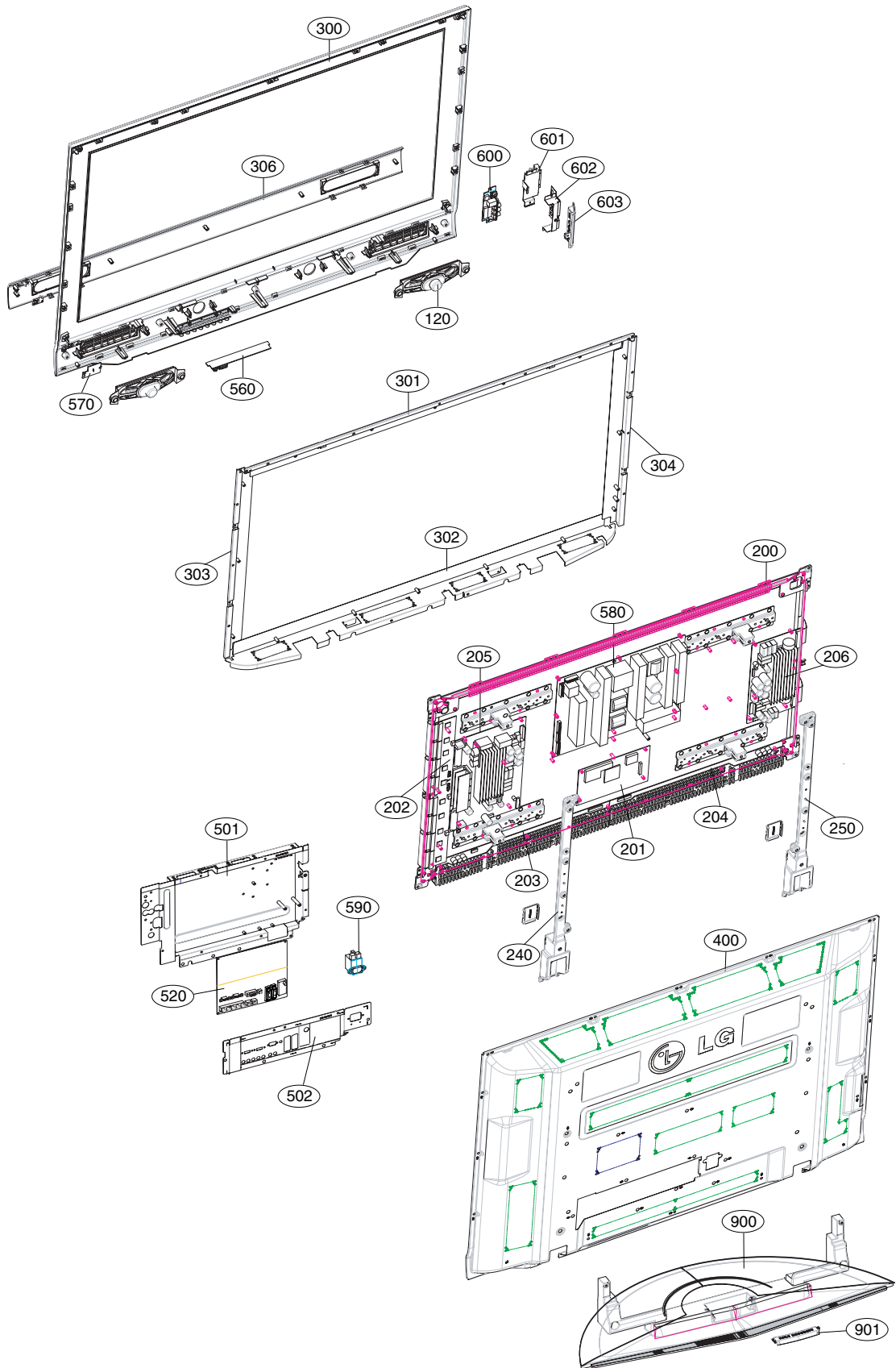


BLOCK DIAGRAM















MEMO

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	EAB33775101	Speaker, Full Range EN1562C-6712 ND 10W 8OHM 82DB 100HZ 193.5 X 42 X 39.9 LUG KOREA TOPTONE
 200	EAJ33726301	PDP, Module-XGA PDP42X40201.AKLGG XGA 42INCH 1024X768 16/9 PDP DIVISION LGERA
	EAJ35703201	PDP, Module-XGA PDP42X40201.ASLGB XGA 42INCH 1024X768 16/9 PDP DIVISION
 201	6871QCH089A	Hand Insert PCB Assembly, 6871QCH089A CTRL ASS'Y HAND INSERT 42" X4 PDP DIVISION
 202	6871QDH127A	Hand Insert PCB Assembly, 6871QDH127A YDRV ASS'Y HAND INSERT 42" X4 PDP DIVISION
 203	6871QLH072A	Hand Insert PCB Assembly, 6871QLH072A XRLT ASS'Y HAND INSERT 42" X4 XL PDP DIVISION
 204	6871QRH082A	Hand Insert PCB Assembly, 6871QRH082A XRRT ASS'Y HAND INSERT 42" X4 XR PDP DIVISION
 205	6871QYH063A	Hand Insert PCB Assembly, 6871QYH063A YSUS ASS'Y HAND INSERT 42" X4 2L PDP DIVISION
 206	6871QZH067A	Hand Insert PCB Assembly, 6871QZH067A ZSUS ASS'Y HAND INSERT 42" X4 2L PDP DIVISION
240	AJJ31584101	Supporter Assembly, 42PC5 SUPP.VETICAL R LGERA
	AJJ31584103	Supporter Assembly, 42PC5 SUPP.VETICAL R ASSY SKD
250	AJJ31584102	Supporter Assembly, 42PC5 SUPP.VETICAL L ASSY LGERA
	AJJ31584104	Supporter Assembly, 42PC5 SUPP.VETICAL L ASSY SKD
 300	ABJ31583101	Cabinet Assembly, 42PC5 . 42" LGERA
	ABJ31583105	Cabinet Assembly, 42PC5D-DB . 42" CABINET ASSY SKD
301	AJJ31583601	Supporter Assembly, 42PC5 SUPP.FILTER TOP LGERA
	AJJ31583603	Supporter Assembly, 42PC5 SUPP.FILTER TOP MA LOCAL
302	AJJ31583701	Supporter Assembly, 42PC5 SUPP.FILTER BOTTOM LGERA
	AJJ31583703	Supporter Assembly, 42PC5 SUPP.FILTER BOTTOM MA LOCAL
303	AJJ31583801	Supporter Assembly, 42PC5 SUPP.FILTER SIDE R LGERA
	AJJ31583803	Supporter Assembly, 42PC5 SUPP.FILTER SIDE R MA LOCAL
304	AJJ31583901	Supporter Assembly, 42PC5 SUPP.FILTER SIDE L LGERA
	AJJ31583903	Supporter Assembly, 42PC5 SUPP.FILTER SIDE L MA LOCAL
306	ABA31767901	Bracket Assembly, GRILLE 42PC5 - ASSY BRACKET SPEAKER DIRECT GRILL
 400	ACQ31583501	Cover Assembly, Rear 42PC5 .. 42" BACK COVER ASSY ANALOG(SMALL) LGERA
	ACQ31583504	Cover Assembly, Rear 42" LGEMA PHANTOM
501	AGU31681101	Plate Assembly, ASSY PLATE TUNER BOT SMALL, 42PC5 LGERA
	AGU31681115	Plate Assembly, ASSY PLATE TUNER BOT SMALL, 42PC5R-ZB, MA LCOAL
502	AGU31680901	Plate Assembly, ASSY PLATE TUNER COVER SMALL, 42PC5 LGERA
	AGU31680921	Plate Assembly, ASSY 42PC5R-ZB(MA LOCAL)
520	EBR35814301	Hand Insert PCB Assembly, Main MAIN M.I PP78A H4 VCT-PRO PDP 42" HAND INSERT . . LGERA
	EBR32773022	Hand Insert PCB Assembly, Main MAIN1 M.I PP78A H4 VCT-PRO. 42PC5R SKD HAND INSERT . -
	EBR35814305	Hand Insert PCB Assembly, Main MAIN M.I PP78A H4 VCT-PRO PDP 42" HAND INSERT . FOR LGEMP CKD
560	EBR33803801	Hand Insert PCB Assembly, CONTROL M.I PP78A 42PC5R-ZB . H4 CONTROL HAND INSERT LGERA
	EBR33803802	Hand Insert PCB Assembly, CONTROL M.I PP78A 42PC5R-ZB . H4 CONTROL HAND INSERT.SKD
570	EBR33809501	Hand Insert PCB Assembly, SUB M.I PP78A 42PC5R-ZB . H4 PREAMP HAND INSERT LGERA
	EBR33809502	Hand Insert PCB Assembly, SUB M.I PP78A 42PC5R-ZB.SKD . H4 PREAMP HAND INSERT
 580	EAY32808901	SMPS, AC/DC YPSUJ014A 100VTO240V 400W 50 TO 60HZ UL/CSA/CE/TUV 42INCH XPOWER DISPLAY PSU LG..
590	EAM35012703	Filter, AC Line IF2-N06CEWL2 5.3mH 250VAC 6A 0.22uF 1000pF VDE/CSA/K/CCC 450/130MM CORE ADDTION..
600	EBR33799301	Hand Insert PCB Assembly, SUB M.I PP78A 42PC5R(V)-ZB . SIDE AV HAND INSERT LGERA
	EBR33799326	Hand Insert PCB Assembly, SUB M.I PP78A 50PC5R-ZB . SIDE AV HAND INSERT
601	MJH32554901	Supporter, PRESS SBHG 1 GUIDE EGI 42PC5, SUPP. SIDE AV
602	MGJ32369301	Plate, Shield PRESS SPTE 0.3 SHIELD SPTE 42PC5, SHIELD CASE SIDE AV
603	ABA31583301	Bracket Assembly, SIDE AV 42PC5 AB
 900	AAN31626701	Base Assembly, ASSY 42PC5 - FIXED STAND LGERA
	AAN31626704	Base Assembly, ASSY 42PC5 - FIXED STAND WITH LOGO SKD
901	MCK32604801	Cover, MOLD ABS 42PC5 ABS CABLE MANAGEMENT

REPLACEMENT PARTS LIST

DATE: 2007. 03. 02.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS					
C100	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G	C312	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5P -
C100	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C316	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA
C100	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G	C317	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C101	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 6	C318	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25V 2
C101	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C319	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C101	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C0G	C320	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -
C102	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 13	C321	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -
C102	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 6	C322	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -
C103	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V -	C400	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C103	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 6	C401	0CC390CK41A	C1608C0G1H390JT 39pF 5% 50V C0G -
C104	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V -	C402	0CC390CK41A	C1608C0G1H390JT 39pF 5% 50V C0G -
C104	0CH5471K416	C2012C0G1H471JT 470pF 5% 50V C0G	C403	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V
C105	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C404	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C106	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C405	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C110	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C406	0CK273CK56A	0603B273K500CT 27nF 10% 50V X7R -
C111	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C408	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 13
C112	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C409	0CK273CK56A	0603B273K500CT 27nF 10% 50V X7R -
C113	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C410	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -
C114	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C411	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C115	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C412	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C116	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 13	C500	0CK225DD66A	LMK212JB225MG-T 2.2uF 20% 10V X7R
C117	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V -	C501	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C118	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C502	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C119	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C503	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C120	0CE106SF6DC	VMV106M016S0ANB010 10uF 20% 16V -	C504	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C200	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C505	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C201	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C506	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C204	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C507	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C205	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C508	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C206	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA	C509	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C213	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C510	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C214	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -5	C511	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C215	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C512	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C216	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C513	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C217	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C514	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C218	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C515	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C219	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C516	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA
C220	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V	C517	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C221	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C518	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C225	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R	C519	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C226	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R	C520	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C227	EAE32755801	CL31A106K5HNNNE 10uF 10% 16V X5R	C521	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C302	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C522	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C303	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C525	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C307	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C526	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C308	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -	C527	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50V 14
C309	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C528	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C310	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0G -	C529	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R
C311	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25V 2	C530	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R
			C531	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C532	0CK332CK56A	C1608X7R1H332KT 3.3nF 10% 50V X7R	C618	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R
C533	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25MA	C619	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -5
C534	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C620	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -5
C535	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -	C621	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P
C536	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -	C622	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P
C537	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -	C623	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V C0G -
C538	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G -	C624	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C539	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA	C625	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C540	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA	C626	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C541	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA	C627	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
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
C545	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA	C630	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C546	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C631	0CK105CF94A	0603F105Z160CT 1uF -20TO+80% 16V
C547	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C632	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V
C548	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C633	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V
C549	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C634	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V
C550	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C635	0CK224DK56A	CS2012X7R224K500NR 220nF 10% 50V
C551	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C636	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C552	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C637	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C553	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C638	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C554	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C639	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C555	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C640	0CE477BJ618	ESM477M035T1G5H20G 470uF 20% 35V
C556	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C641	0CE477BJ618	ESM477M035T1G5H20G 470uF 20% 35V
C557	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C642	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C558	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C643	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C559	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C644	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C563	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C645	0CK105DK94A	0805F105Z500CT 1uF -20TO+80% 50V
C564	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C646	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C568	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C647	0CE107WJ6DC	MVK10TP35VC100M 100uF 20% 35V 310
C569	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C648	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C570	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C649	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C571	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C650	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C572	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C651	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C573	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C652	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C574	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15	C653	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C575	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C703	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C576	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C704	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C600	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C708	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16V -
C601	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	C709	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C602	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	C710	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C603	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5P	C711	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C604	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C712	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C605	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C713	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C607	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C714	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -
C608	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C801	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 80
C609	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30MA	C804	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C610	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15	C805	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C611	0CE475WJ6DC	MVK4.0TP35VC4.7M 4.7uF 20% 35V 15	C806	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 25
C612	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V C0G	C807	0CE107WH6DC	MVK8.0TP25VC100M 100uF 20% 25V 18
C613	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V C0G	C808	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80
C614	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C809	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C615	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C810	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C617	0CK475EF67A	C3216X5R1C475MT 4.7uF 20% 16V X5R	C811	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C812	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D205	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C813	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D206	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C814	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D207	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C815	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D208	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C816	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D208	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C818	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D209	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C819	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D209	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C820	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D210	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C821	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V 80M	D210	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C822	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D210	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C823	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D211	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C824	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16V -	D211	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C825	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D219	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C826	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D220	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C827	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D221	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32
C828	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D222	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C829	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D223	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C830	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 80	D224	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3
C831	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D300	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3
C832	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V	D301	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3
C833	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	D302	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3
C836	0CK226FF67A	EMK325BJ226MM-T 22uF 20% 16V X5R	D600	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4A 3
C837	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D700	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C837	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D701	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S
C838	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	D801	0DZKE00048A	KDZ8.2V 8.2V 7.7TO8.7V 200HM 200M
C839	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D803	0DR340009AA	MBRS340 525MV 40V 4A 0SEC 0F 0W D
C839	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -	D100	0DL200000CA	LED, SAM5670(DL-2LRG) ROUND 4.8MM Y-GR
C840	0CK272CK46A	0603B272J500CT 2.7nF 10% 50V X7R	D800	0DL233309AC	LED, SAM2333 RED/Y-GREEN 2.7V 2.8V 30m
DIODEs			ICs		
D100	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC200	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT
D101	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32	IC202	0I1STL00031A	MC74HC4066ADR2G MC74HC4066ADR2G,L
D101	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC203	0I1FA742530B	74ACT253SC 4.5TO5.5V 0.004mA MULT
D101	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC302	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT
D102	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SOD32	IC303	0I1PRP00735A	ANX9021 3.3V 60u 17MHZ TQFP TR 14
D102	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC304	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BIT
D102	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC500	EAN35336801	VCT7993P- FA-A1-H-000 1.71VTO1.89
D103	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC501	0IMMRAL025A	AT24C32AN-10SU-2.7 32KBIT 4096x8B
D103	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC502	0I1FA752700A	KA75270Z 2.55TO2.85V 0 200MW TO92
D104	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC600	0I1PRP00665A	TEA6420D 8TO10.2V 8mA 0 SO R/TP 2
D104	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC601	EAN35502001	TPA3107D2 10TO26V 50mV 0.1% 15W 0
D105	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC800	EAN32662801	KA7809ERTM 35V to 40V 9V 1W DPAK
D106	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC801	EAN35520901	MP2355DN-LF-Z 4.75V ~ 23V 2.5V ~
D107	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC802	0I1PMG78341A	AZ1085S-3.3TR/E1,LF 12V 3.3V 0W T
D108	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC803	0I1PMG78341A	AZ1085S-3.3TR/E1,LF 12V 3.3V 0W T
D109	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC805	EAN34140401	AZ1085S-1.8TRE1 1.238V to 12V 1.
D110	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC807	EAN32724702	STMAV340 4.0TO5.5V 5NSEC 5NSEC 0W
D111	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	IC809	0I1PMG00049A	AZ1117H-1.8TR/E1[H13A] 3.2TO10V 1
D112	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	FILTERs & INDUCTORs		
D200	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	AL308	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
D201	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	AL309	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
D202	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S	AL310	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
D203	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S			
D204	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W S			

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
AL311	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
AL312	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
AL313	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6X1.
F1	6210VH0004A	6210VH0004A 100OHM 30MM 13MM 34MM
L100	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L101	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L102	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L103	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L104	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L105	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L106	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L107	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L108	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L109	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L200	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L201	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L204	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L205	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L314	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L315	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L400	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L501	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L508	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3
L509	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3
L510	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3
L511	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L512	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L602	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L603	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L608	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L609	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L610	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1
L612	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1
L615	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1
L617	6210TCE001P	HB-1S2012-121JT(H:1mm) 120OHM 2X1
L618	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L703	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L704	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1
L705	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1
L706	6200J00005N	HH-1M2012-121JT(H:1mm) 120OHM 2X1
L707	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L707	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400N
L708	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L708	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400N
L709	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25X1MM S
L709	EAM33010401	MEM2012P25R0 EMI 25MHZ 100pF 400N
L711	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH
L712	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH
L714	EAM33010402	MEM2012P101R EMI 100MHZ 15pF 45NH
L800	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L801	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L802	6210TCE001B	HH-1H3216-500JT 50OHM 3.2X1.6X1.3
L803	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L806	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L807	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
L808	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6X1.
X300	6202TST001H	Crystal, SX-1 27MHZ 30PPM 27MHZ 30PPM 20pF
X500	6202VDT002P	Crystal, HC-49/SM 20.25000MHZ 20.25MHZ 30P
L100	0LC1032101A	Inductor, FI-C3216-103KJT 10UH 10% - 50MA 0
L600	0LCML00020C	Inductor, MLI-201212-100K 10UH 10% - 15MA 1
L601	0LCML00020C	Inductor, MLI-201212-100K 10UH 10% - 15MA 1
L605	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.
L606	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.
L613	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.
L614	EAP32842807	Inductor, NR8040T330M 33UH 20% 250V 1.7A 0.
L810	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.
TRANSISTORS & FETs		
IC301	0TFFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +-
IC305	0TFFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +-
IC306	0TFFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +-
IC400	0TFFTH80001A	FET, SSM6N15FU N-CHANNEL MOSFET 30V +-
Q100	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q101	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q103	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q104	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q105	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q106	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q107	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q108	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q109	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q110	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q200	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q204	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q205	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q206	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q400	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q401	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q403	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q404	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q411	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q500	0TR102009AM	KRA102S PNP -30V 0V -50V -0.1A -0
Q501	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q502	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q503	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q504	0TR1H80002A	2SA1530A-T112-1R PNP -6V -60V -50
Q600	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q601	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q602	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q603	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q800	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q801	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q803	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N
Q804	0TR1Y80001A	2SC3052 NPN 6V 50V 50V 200MA 100N

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
RESISTORS					
L402	0RJ0000G676	MCR18EZHJ000_00HM 5% 1/4W 3216 R	R140	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
L710	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R141	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R153	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R154	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R100	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R155	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R100	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R156	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R100	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W 2012 R	R157	0RJ9101D677	MCR03EZPJ912 9.1KOHM 5% 1/10W 160
R101	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R158	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R101	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R159	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R101	0RJ9101D677	MCR03EZPJ912 9.1KOHM 5% 1/10W 160	R160	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R101	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W 2012 R	R161	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 160
R102	0RH1101D622	MCR10EZHJ112 1.1KOHM 5% 1/8W 2012	R162	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R102	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 2012	R163	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R102	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R164	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R102	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 2012	R165	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R103	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 2012	R166	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R103	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R167	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R103	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R168	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R103	0RH2203D622	MCR10EZHJ224 220KOHM 5% 1/8W 2012	R169	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R104	0RH9101D622	MCR10EZHJ912 9.1KOHM 5% 1/8W 2012	R170	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R104	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 2012	R171	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R104	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R172	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R104	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 2012	R173	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R174	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R2	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R105	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R200	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R105	0RH2203D622	MCR10EZHJ224 220KOHM 5% 1/8W 2012	R201	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R106	0RH1101D622	MCR10EZHJ112 1.1KOHM 5% 1/8W 2012	R202	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R203	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 160	R204	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R106	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W 2012 R	R205	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R107	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 2012	R206	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R107	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R207	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R107	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W 2012 R	R208	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R108	0RH9101D622	MCR10EZHJ912 9.1KOHM 5% 1/8W 2012	R209	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R108	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160	R211	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R108	0RH0332D622	MCR10EZHJ330 33OHM 5% 1/8W 2012 R	R212	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R109	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160	R213	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R109	0RH0752D622	MCR10EZHJ750 75OHM 5% 1/8W 2012 R	R216	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R110	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W 1608	R219	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R110	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R220	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R111	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R221	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R112	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R222	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608
R114	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R223	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R115	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R227	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R116	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R233	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608
R117	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R234	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R119	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R235	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 160
R120	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R237	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R121	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R239	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R122	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R244	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R132	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R245	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R133	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R246	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
			R247	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R248	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R337	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R249	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R338	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R250	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R338	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
R251	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R339	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R252	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R339	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
R253	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R340	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R254	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R340	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
R255	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R341	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R265	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608	R342	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R266	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 160	R344	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R267	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 160	R345	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R268	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608	R346	0RJ1004D677	MCR03EZPJ105 1MOHM 5% 1/10W 1608
R269	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 160	R347	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608
R270	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 160	R349	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R271	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1608	R350	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R272	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 160	R352	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R273	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 160	R353	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R3	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R354	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R3	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R355	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R300	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R356	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R301	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R358	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R302	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608	R359	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608
R303	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608	R361	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R304	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R362	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R305	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R363	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R306	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R364	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R307	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R365	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R308	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608	R366	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R310	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608	R367	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R311	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608	R368	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R312	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R369	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R313	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R370	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R314	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R371	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R315	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R316	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R4	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R317	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R401	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608
R318	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R402	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608
R319	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R404	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 160
R320	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R405	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R321	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R407	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R322	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R408	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608
R323	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R410	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R324	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R411	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R325	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R412	0RJ0822D677	MCR03EZPJ820 82OHM 5% 1/10W 1608
R326	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R413	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608
R327	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608	R421	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R328	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R422	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1608
R329	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R423	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608
R330	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R423	0RJ1800D677	MCR03EZPJ181 180OHM 5% 1/10W 1608
R331	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R424	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R332	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R333	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R5	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R334	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R503	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10W 1608
R335	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R504	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608
R336	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R505	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R506	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608	R570	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R508	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R573	0RJ2702D677	MCR03EZPJ273 27KOHM 5% 1/10W 1608
R509	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10W 1608	R575	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R510	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R6	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R511	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R6	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R512	0RJ1802D677	MCR03EZPJ183 18KOHM 5% 1/10W 1608	R600	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R513	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R601	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R514	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R602	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R515	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R603	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R516	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R605	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R517	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R606	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R518	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R607	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R519	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R608	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R520	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R609	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R521	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R610	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R522	0RJ6201D677	MCR03EZPJ622 6.2KOHM 5% 1/10W 160	R611	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R523	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R	R612	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R524	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R	R613	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 160
R527	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R614	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 160
R528	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R615	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R529	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R616	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R530	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R617	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R531	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R618	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R532	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R619	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R533	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R621	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R534	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R622	0RJ1000D477	MCR03EZPJ101 100OHM 1% 1/10W 1608
R535	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R623	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R536	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R624	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R537	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R625	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R538	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R626	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R540	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R627	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608
R541	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R628	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608
R542	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R629	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R543	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R631	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R544	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R633	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R545	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R634	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 160
R546	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R635	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R547	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160	R636	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R548	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R7	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R549	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R7	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R550	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R700	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005 R
R551	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R701	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005 R
R552	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R	R702	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R554	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R703	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R555	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1608	R704	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R556	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R720	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R557	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R720	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R558	0RJ8201D677	MCR03EZPJ822 8.2KOHM 5% 1/10W 160	R722	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 160
R559	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R723	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 160
R560	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R725	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R561	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608	R726	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608
R563	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608	R8	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R564	0RJ3001D677	MCR03EZPJ302 3KOHM 5% 1/10W 1608	R8	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012 R/
R565	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608	R801	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R567	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R806	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R807	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R808	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W 1608
R809	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 160
R810	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R
R811	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R812	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R814	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R815	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R817	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R818	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R821	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R823	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R825	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R826	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R827	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608
R828	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W 160
R833	0RJ6802D677	MCR03EZPJ683 68KOHM 5% 1/10W 1608
R834	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608
R835	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 160

HARNESSES & CONNECTORS

C1	6631900010N	Harness,Single 12P 2.0MM 900MM SMH200 SMH200 900
C2	6631900012D	Harness,Single 6631900012D SMH250 SMH250 250mM
C3	6631900099A	Harness,Single SMH250 SMP250 300mM 2.50MM 3P UL1
C4	6631900108C	Harness,Single SMH200 SMH200 350mM 2.00MM 6P UL1
C5	6631T12006W	Harness,Single 12505HS-0400 12505HS-0400 550mM 1
C6	6631T25024N	Harness,Single 6631T25024N SMH250 35097_35098 26
C7	6631T25026B	Harness,Single 6631T25026B SMH250 35098 750mM 2.
C8	6631T39004D	Harness,Single 6631T39004D 1-1123722-9 1-1123722
C9	6631V39013N	Harness,Single 1-1123722-8 1-1123722-8 900mM 3.9
C10	EAD30301901	Harness,Single DMS 4P CONNECTOR ASSY
C11	EAD35682503	Harness,Single LVDS PDP STD_300MM FH12524-31(Foo
C12	EAD35862901	Harness,Single SMH250-13 SMH250-14 300MM 2.50MM
C13	EAD36774101	Harness,Single 8P 1533(SHIELD) 12505HS-8 12505HS
CN100	6602T12005G	Wafer, 12505WR-08A00 8P 1.25MM 1R ANGLE
CN101	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DI
CN200	6630VF00704	Wafer, 12505WS-04A00 4P 1.25MM 1R STRAIG
CN501	366-932B	Wafer, GIL-G-03P-S3T2-E(TYPOE) 3P 2.50MM
CN600	6602T25008B	Wafer, SMW250-03P 3P 2.50MM 1R STRAIGHT
CN601	6602T25008C	Wafer, SMW250-04P 4P 2.50MM 1R STRAIGHT
CN700	6630VF00530	Wafer, 12507WR-30A00 30P 1.25MM 1R ANGLE
CN702	6630VF01608	Wafer, 53398-0890 8P 1.25MM 1R STRAIGHT
CN703	6602T20009L	Wafer, SMAW200-12P 12P 2.00MM 1R ANGLE D
CN800	6602T25008N	Wafer, SMW250-14P 14P 2.50MM 1R STRAIGHT
CN801	6602T25008J	Wafer, SMW250-10P 10P 2.50MM 1R ANGLE DI
P100	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DI
P101	6602T20009L	Wafer, SMAW200-12P 12P 2.00MM 1R ANGLE D
JK201	6630G70016A	DSUB, A03-7071-094 D-SUB 15P 2.29MM STR

JACKS

JK100	6612J10033A	PMJ016-13 13P DIN/RCA 14MM ANGLE
JK100	6612M00010A	PSC003-01 21P 21P/1C 3.81MM STRAI
JK101	6612M00010A	PSC003-01 21P 21P/1C 3.81MM STRAI

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
JK200	6612J10031A	PPJ209-02 14.0MM 1RX5C STRAIGHT T
JK204	6612F00099A	PEJ024-01 1P 4P STRAIGHT TR 3.6MM
JK300	6612B00015C	DC1R019WDH. SOCKET 21P STRAIGHT S
JK301	6612B00015C	DC1R019WDH. SOCKET 21P STRAIGHT S
JK600	6612J10043A	PPJ200-07 15MM 1RX4C ANGLE BK 3P

SWITCHs

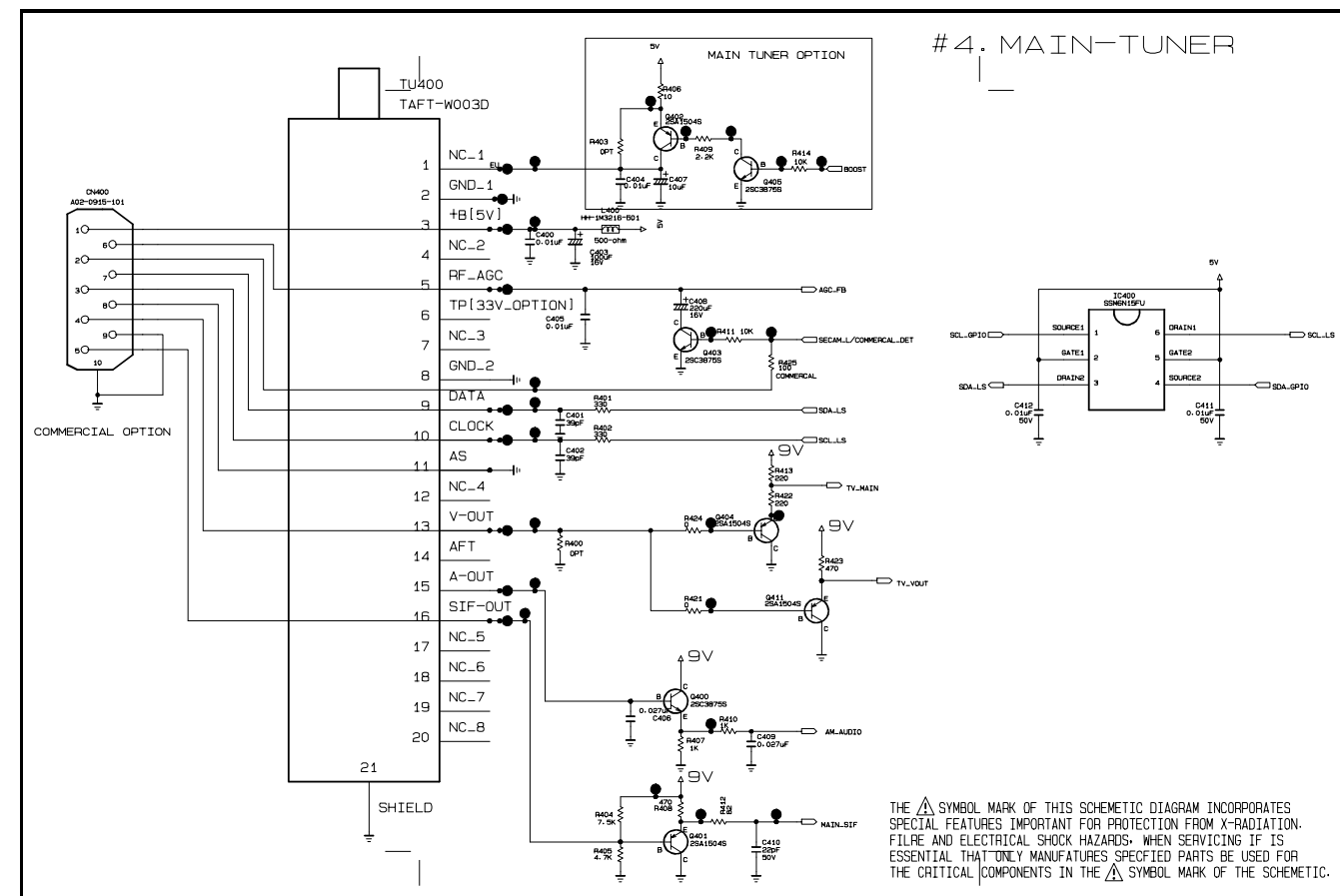
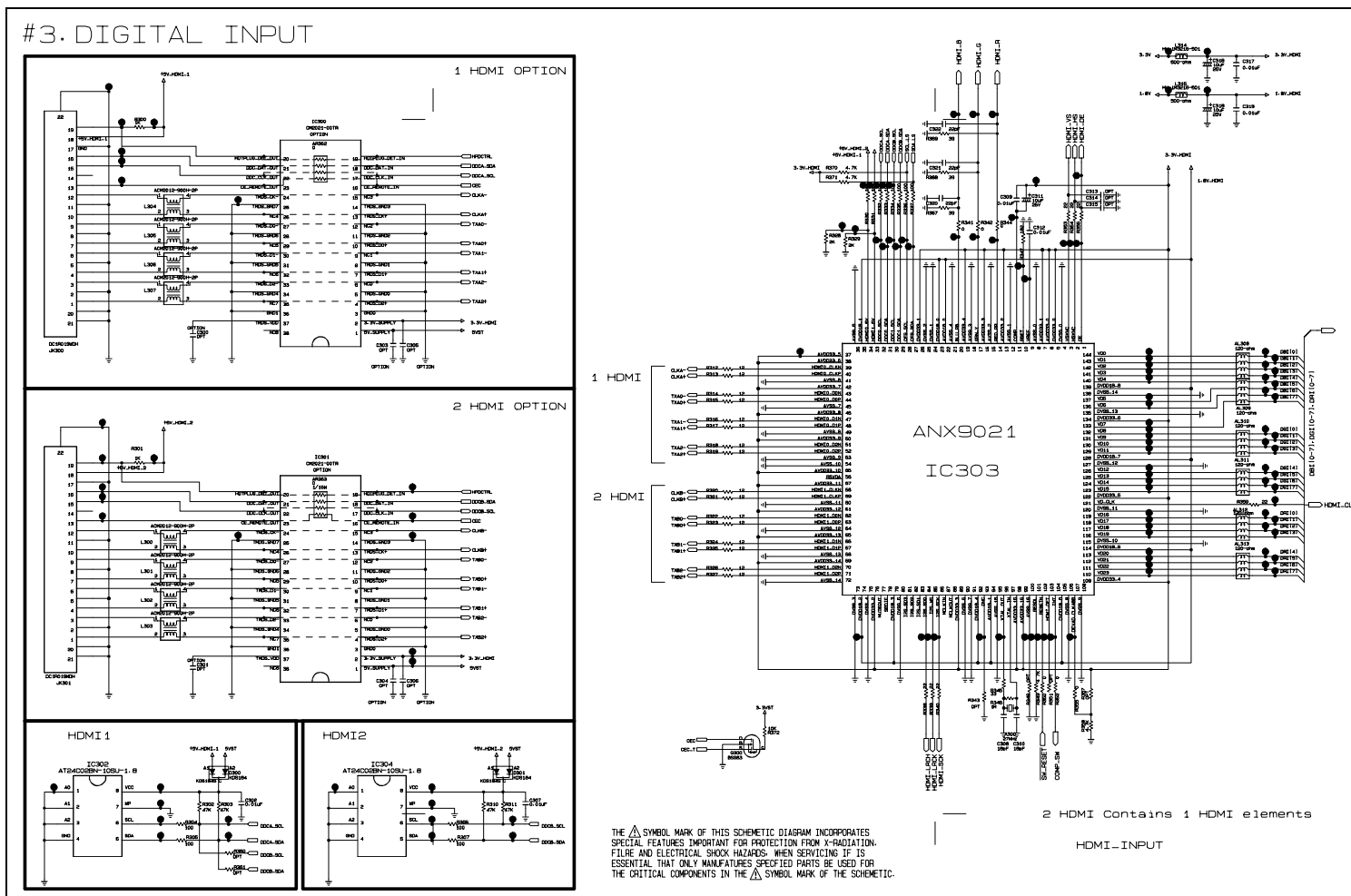
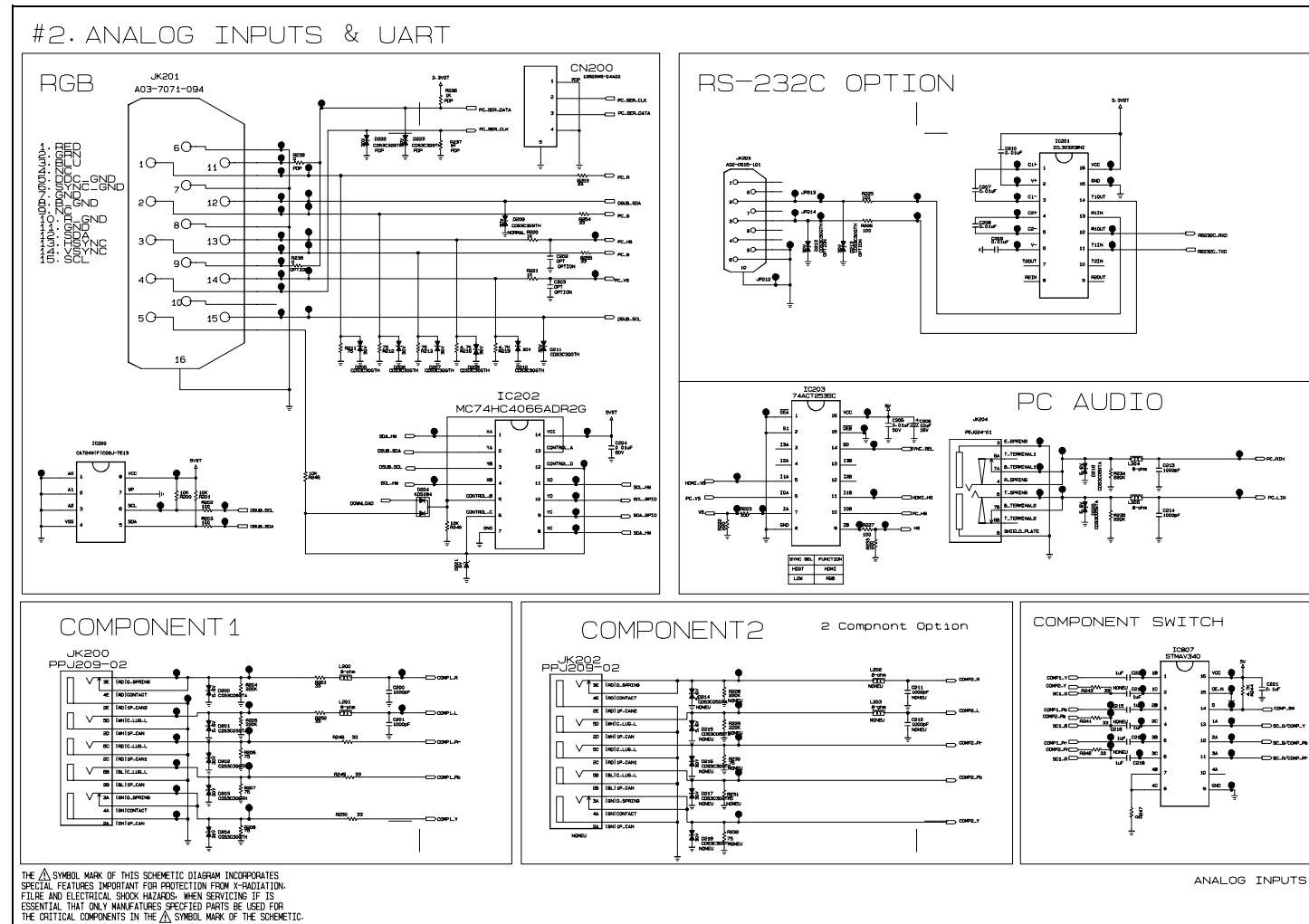
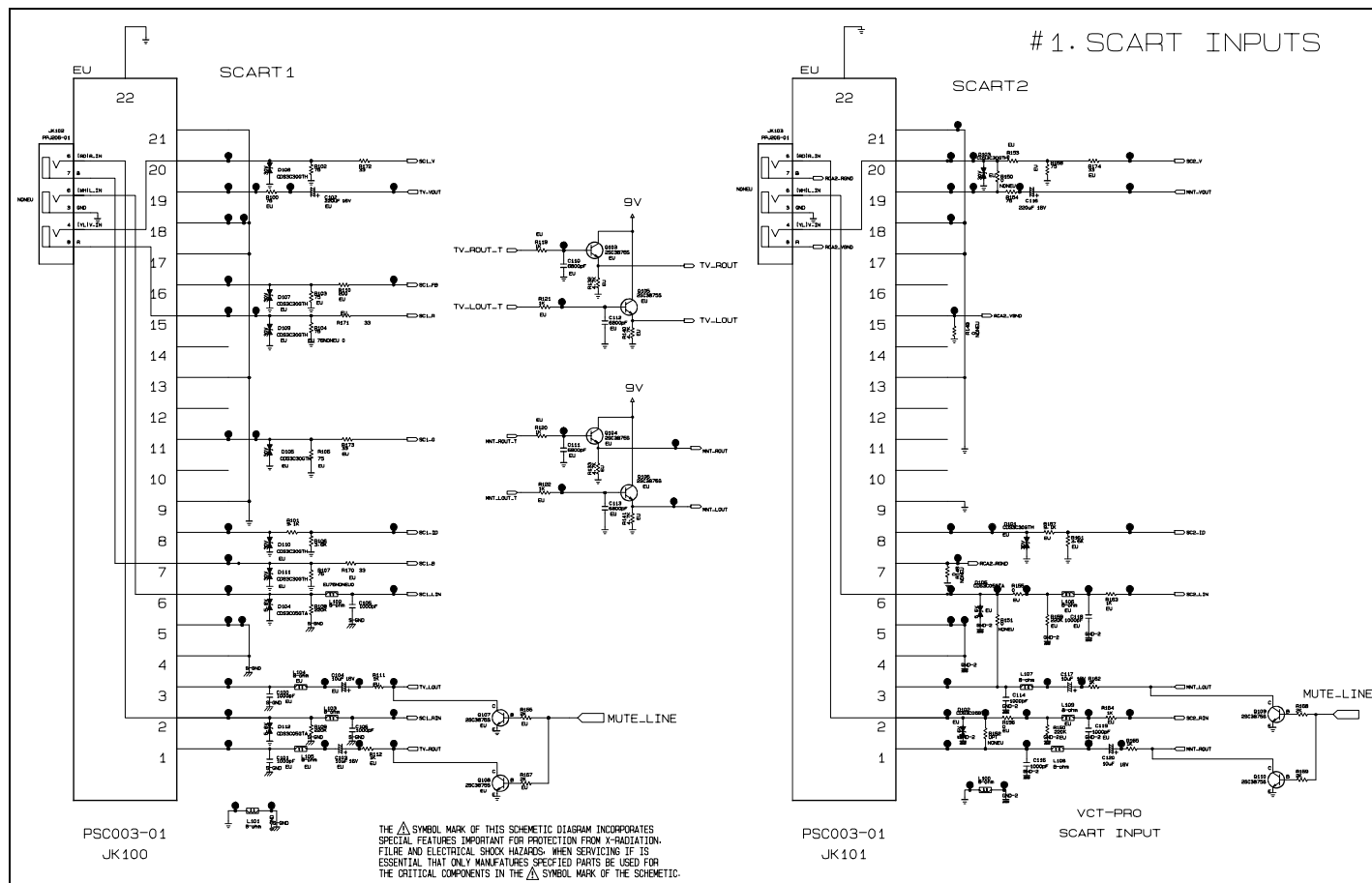
SW101	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW102	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW103	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW104	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW105	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW106	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW107	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW108	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW500	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A HORIZ

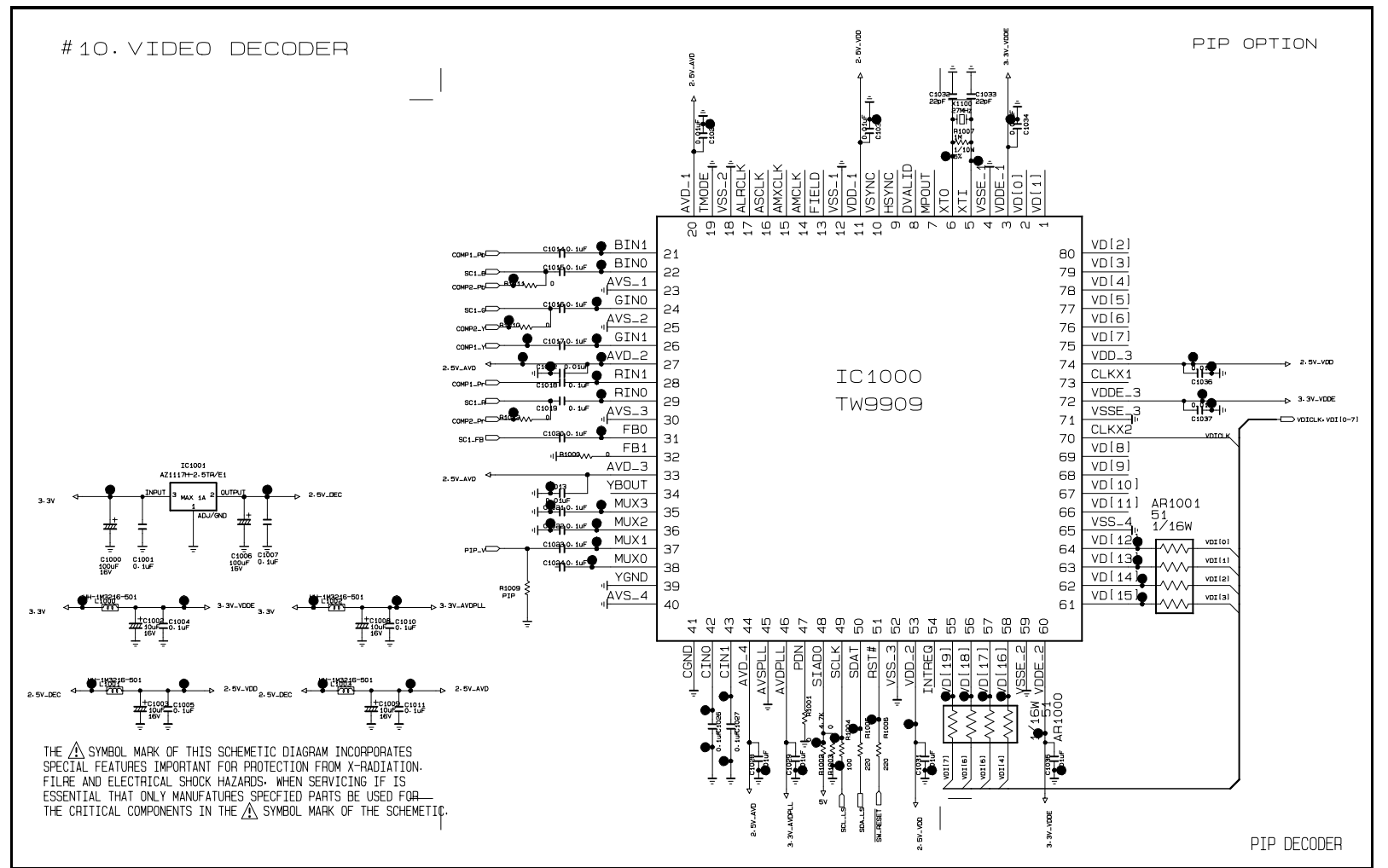
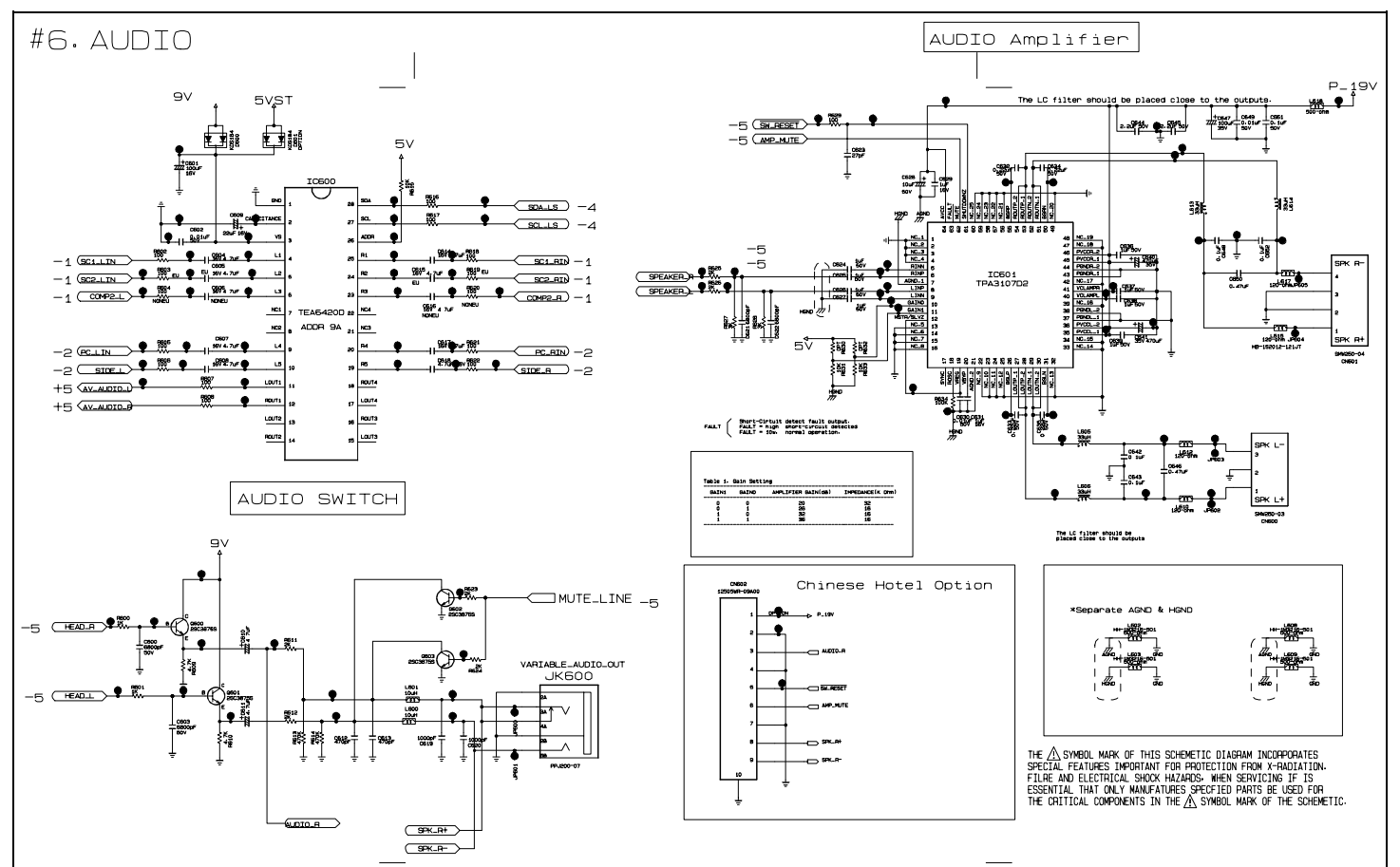
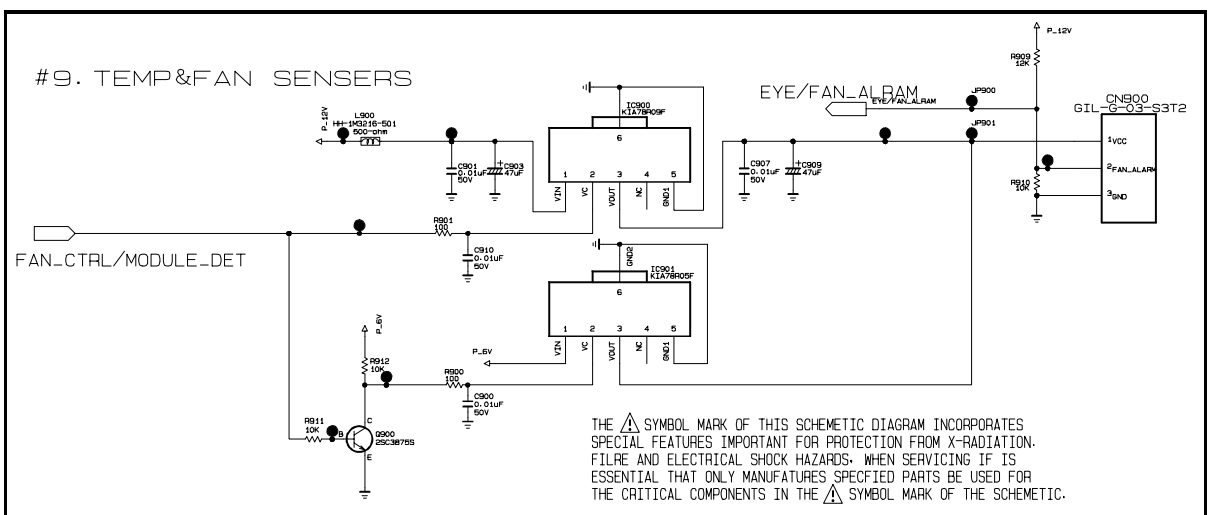
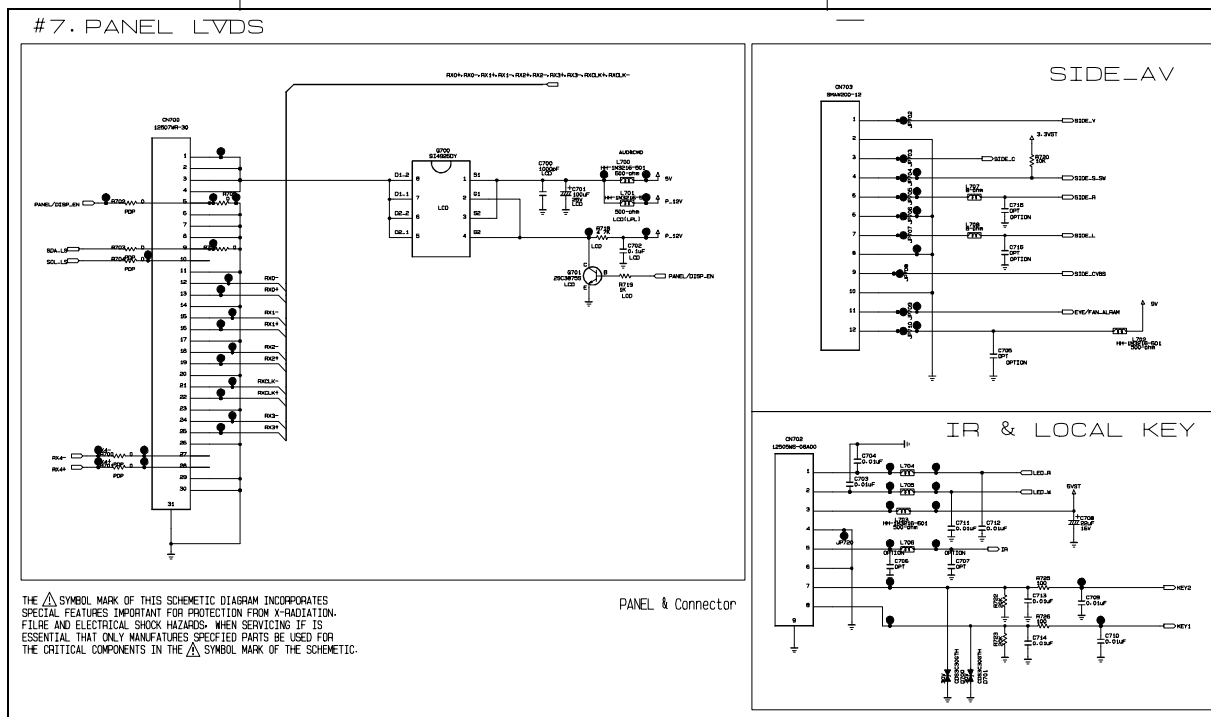
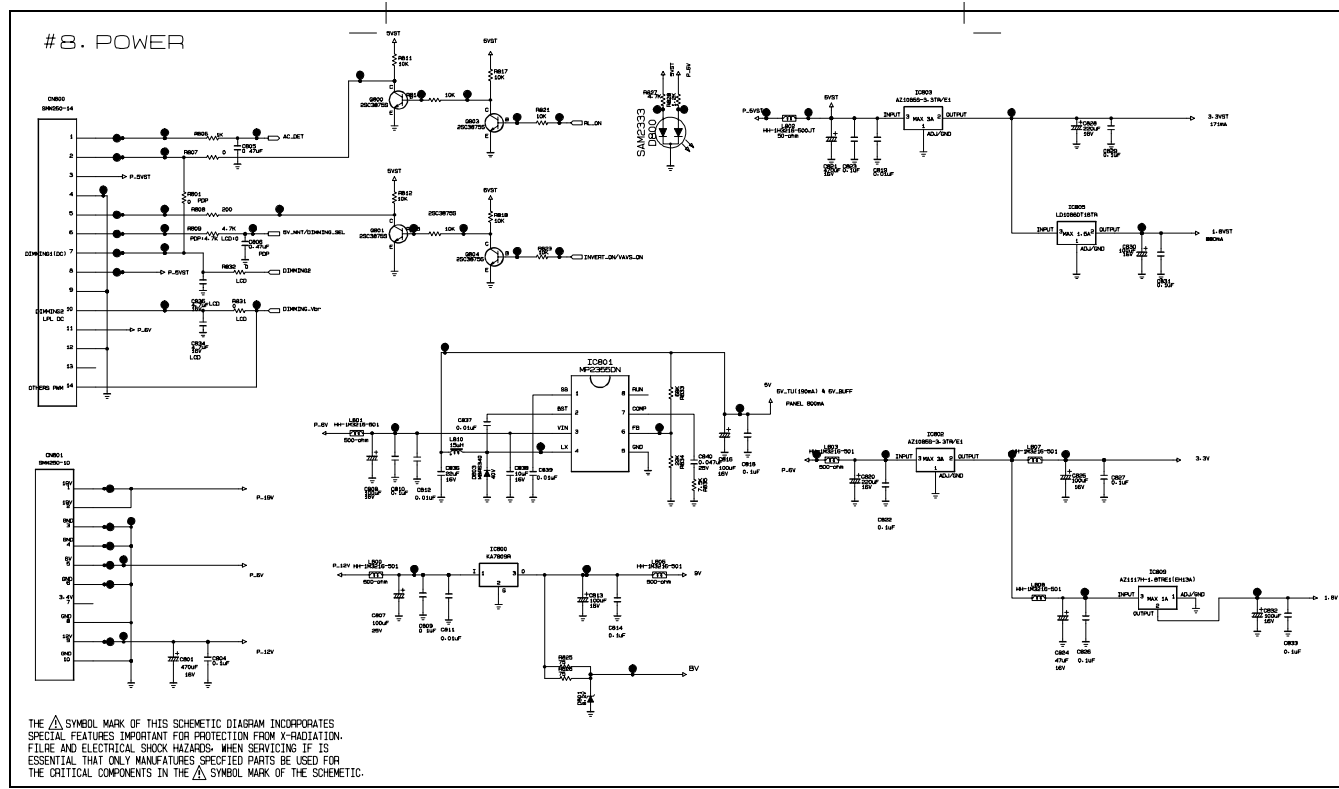
OTHERs

B1	3890TKD002P	Box, LB500J(PCB) BRAND 542*397*445
B2	MAY32943803	Box, BOX DW3 1088 150 350 NO PRINTING 42PC5
B3	MAY34392901	Box, BOX DW3 1104 850 370 2 COLOR 42PC5
IC100	6712000013A	Receiver Module, TSOP4438SO1 4.5TO5.5V 1.5MA
SA1	SAA30632015	S/W,Firmware V2.49 3C6B EUROPE FLASH
SA1	SAA30632003	S/W,Firmware V2.03 C2F2 EUROPE FLASH
SA1	SAA30632016	S/W,Firmware V3.06 2E7D WORLD WIDE FLASH
TU400	EBL35311207	Tuner,Tuner/Modulator TAFT-W005D PAL-B/G+I+D/K 38.9M

ACCESSORY

A1	SAC30653107	Title, H4 NEW MDL 26lan EU all CD MANUAL
A1	MFL37396705	Manual,Owners H4 NEW MDL EU all 26lan simple book
A1	MFL37396706	Manual,Owners H4 NEW MDL CIS 4lang H4 simple book
A2	MKJ32022825	Remote Controller, COMPLEX PA71A H4_NON PIP
A3	6410TEW010A	Power Cord, CEE,LP-34A&H05VV-FX3C 1.87M BLACK
A3	64109EP003A	Power Cord, 64109EP003A SP-023 IS-14 1.87M BLACK
A4	4972V00178A	Supporter, COMPLEX METAL ASSY PDP SET
A5	3880TKZ004D	Bag, COMPLEX VINYL 200*200 0.58 H&C MODEL
A6	4950TKA320A	Plate, PRESS SBHG T1.2 SUPPORT UPSET, 26INCH
A7	FAB30021701	Screw, Machine 1SZZVMR001A RING WALL 5MM 25MM





AUDIO Amplifier

The LC filter should be placed close to the outputs.

Table 1: Pin Setting

Pin	Setting	Function
1	NC	NC
2	NC	NC
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
10	NC	NC
11	NC	NC
12	NC	NC
13	NC	NC
14	NC	NC
15	NC	NC
16	NC	NC
17	NC	NC
18	NC	NC
19	NC	NC
20	NC	NC
21	NC	NC
22	NC	NC
23	NC	NC
24	NC	NC
25	NC	NC
26	NC	NC
27	NC	NC
28	NC	NC
29	NC	NC
30	NC	NC
31	NC	NC
32	NC	NC
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36	NC	NC
37	NC	NC
38	NC	NC
39	NC	NC
40	NC	NC

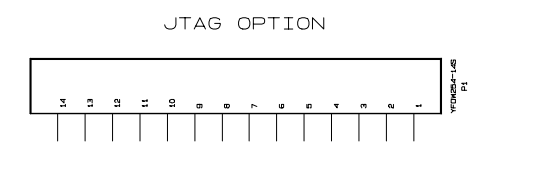
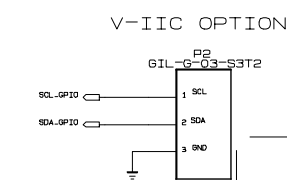
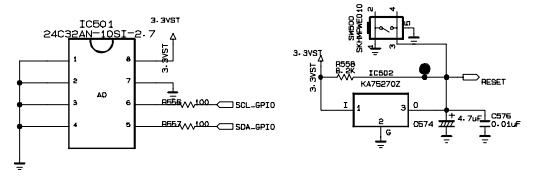
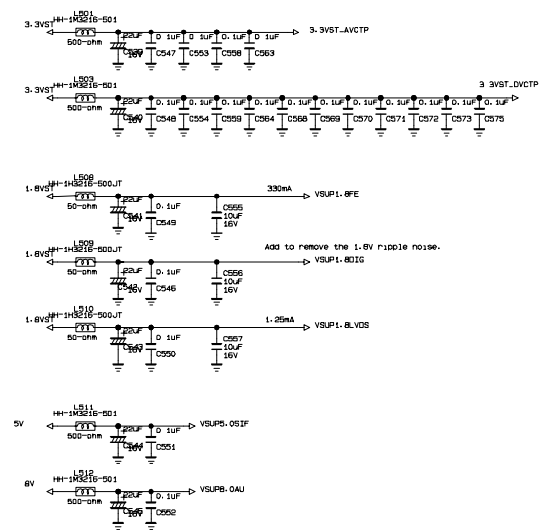
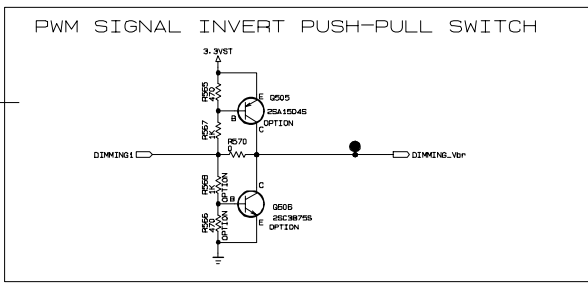
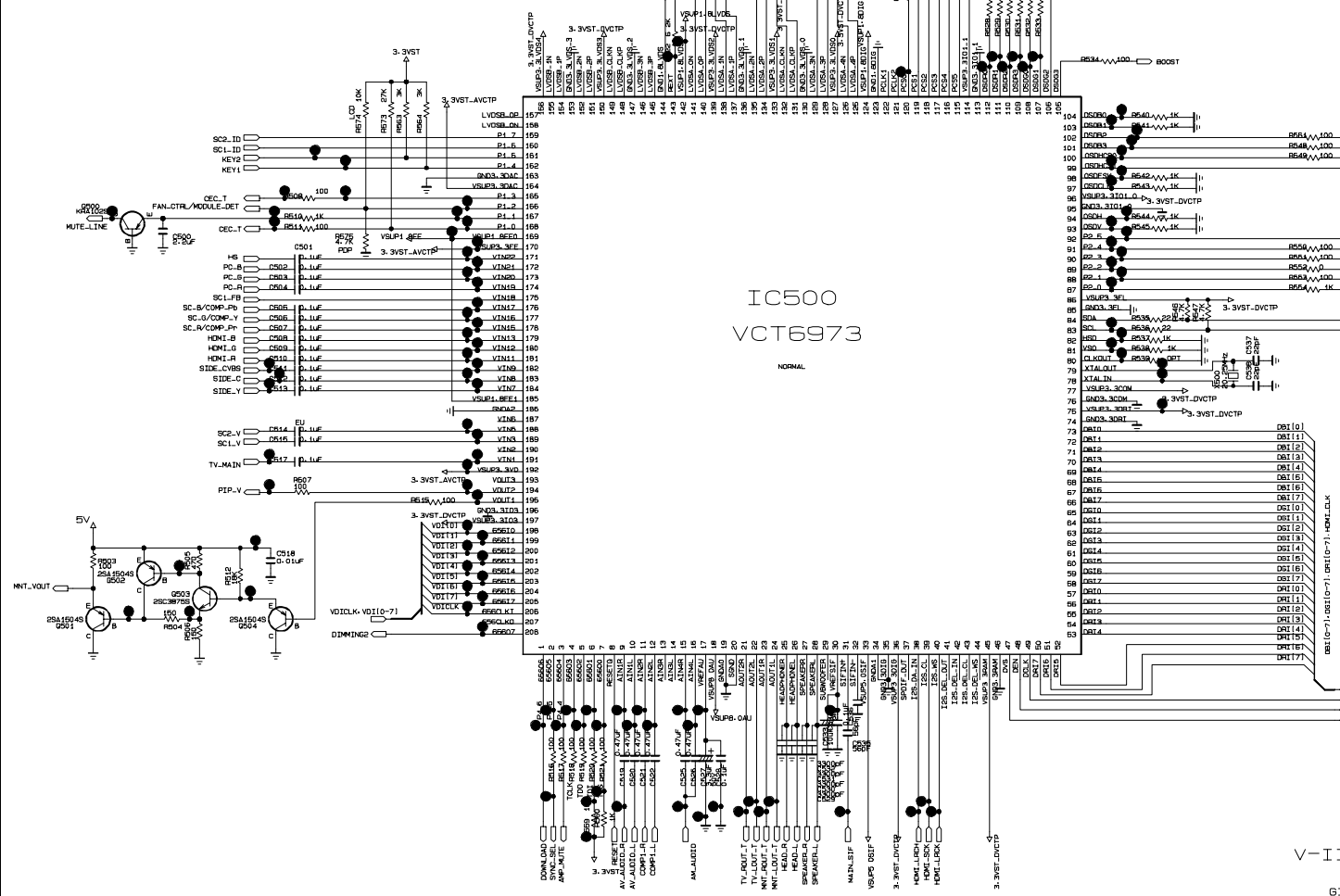
Chinese Hotel Option

*Separate AGND & HGND

PIP DECODER

#5. VCTP

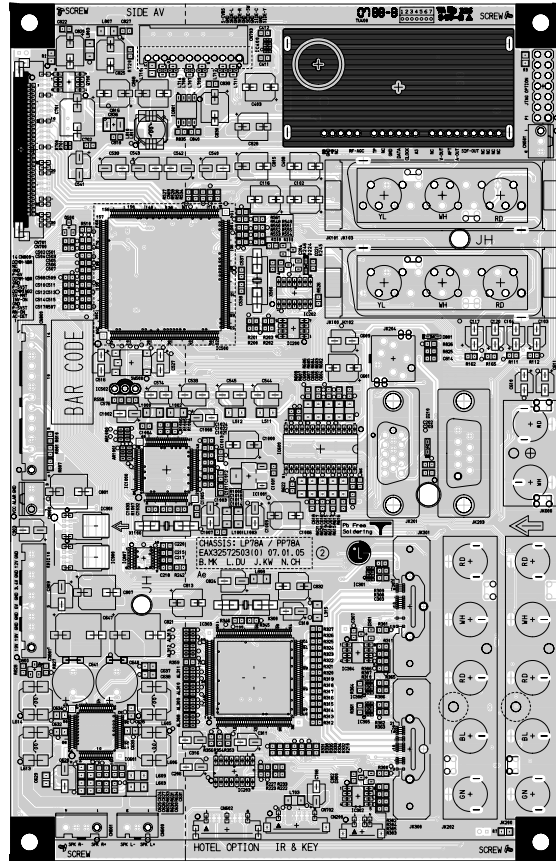
SCALER



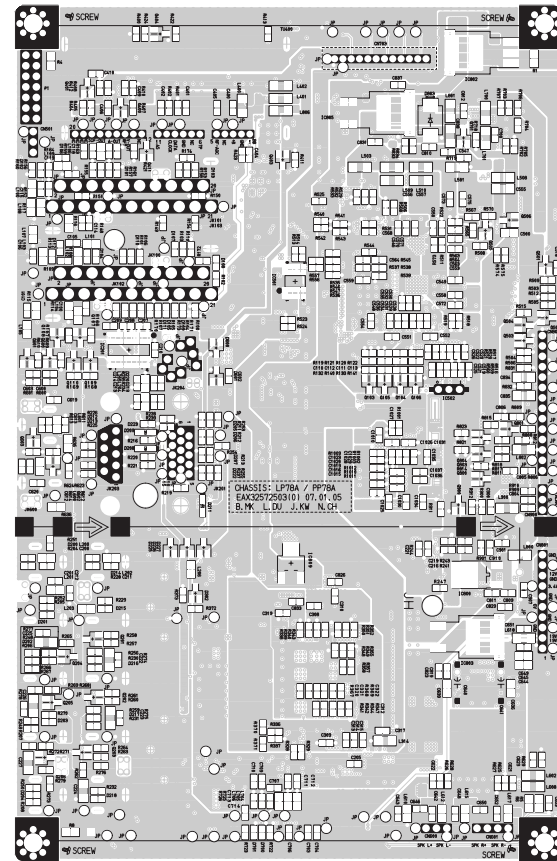
THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FILTRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.

PRINTED CIRCUIT BOARD

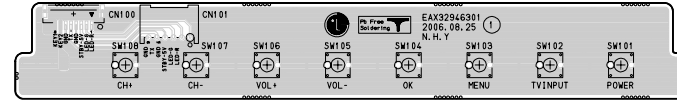
MAIN(TOP)



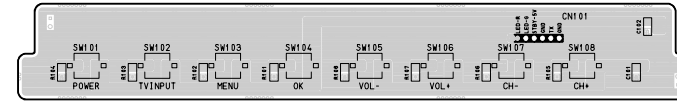
MAIN(BOTTOM)



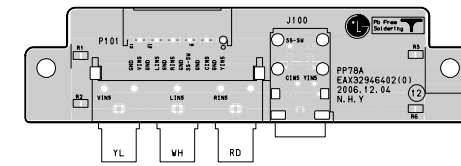
CONTROL(TOP)



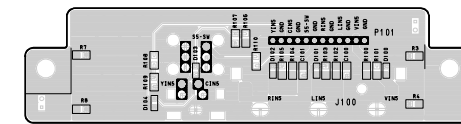
CONTROL(BOTTOM)



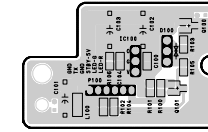
SIDE A/V(TOP)



SIDE A/V(BOTTOM)



IR/LED





P/NO : MFL38559902

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Printed in Korea

