



Liquid Crystal Display Television Service Manual

Chassis : MST6E16GS

Product Type : LCD26V88AM

LCD32V88AM

Ver 1.0

Hisense Electric Co. , Ltd.

April, 2009

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Contents

Contents.....	2
Service Manual.....	3
1. Precautions and notices.....	3
 1.1 WARNING.....	3
 1.2 NOTES.....	5
2. Product Function Specifications.....	6
 2.1 Product Function.....	6
 2.2 Specifications	8
4. Chassis Layout and Overall Wiring Diagrams	10
5. Factory/Service OSD Menu and Adjustment.....	11
 5.1 To enter the Factory OSD Menu	11
 5.2 Factory OSD Menu	12
6. Software Upgrading.....	16
 6.1 Get ready for upgrading.....	17
 6.2 Upgrading with the ISP TOOL4.0.9.....	26
7. Troubleshooting.....	32
 7.1 Troubleshooting for Remote Control.....	32
 7.2 Troubleshooting for Function Key	33
 7.3 TV won't Power On.....	34
 7.4 Troubleshooting for Audio.....	35
 7.5 Troubleshooting for TV/VGA/HDMI input.....	36
 7.6 Troubleshooting for YPbPr input.....	37
 7.7 Troubleshooting for Video/S-Video input.....	38
8. Explode View.....	39
9. Schematic circuit diagram.....	39

Service Manual

1. Precautions and notices

BEFORE SERVICING THE LCD TV, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

WHEN REPLACEMENT PARTS ARE REQUIRED, BE SURE TO USE REPLACEMENT PARTS SPECIFIED BY THE MANUFACTURER.

Proper service and repair is important to the safe, reliable operation of all Hisense Electric Co., Ltd Equipment. The service procedures recommended by Hisense and described in this Service Guide are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Hisense could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Hisense has not undertaken any such broad evaluation. Accordingly, a serviceman that uses a service procedure or tools, which are not recommended by Hisense, must first satisfy himself thoroughly that neither his safety nor the safe of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, Hisense Electric Co., Ltd will be referred to as Hisense.

1.1 WARNING

1.1.1

Critical components having special safety characteristics are identified with a ▲ by the Ref. No. in the parts list. Use of substitute replacement parts, which do not have the same specified safety characteristics, may create shock, fire, or other hazards. Under no circumstances should the original design be modified or altered without written permission from Hisense. ~~Hisense assumes no liability, express or implied, arising out of any unauthorized modification of design. Serviceman assumes all~~

liability.

DANGERCAUTION CAUTION

1.1.2.

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.

1. Never replace modules or other components while the unit is switched on.

2. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

1.1.3

To prevent electrical shock, do not use this polarized ac plug with an extension cord, receptacle, or the outlet unless the blades can be fully inserted to prevent blade exposure.

To prevent electrical shock, match wide blade or plug to wide slot, fully insert.

1.1.4

When replacement parts are required, be sure to use replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

1.1.5

Safety regulations require that after a repair the set must be returned in its original condition. In particular attention should be paid to the following points.

- Note: The wire trees should be routed correctly and fixed with the mounted cable clamps.

- The insulation of the mains lead should be checked for external damage.

1.1.6

- (1) Do not touch Signal and Power Connector while this product operates. Do not touch EMI ground part and Heat Sink of Film Filter.

- (2) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.

- (3) Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it. Do not install or use the product in a location that does not satisfy the specified environmental conditions. This may damage the product and may cause a fire.

- (4) If a foreign substance (such as water, metal, or liquid) gets inside the panel module, immediately turn off the power. Continuing to use the product may cause fire or electric shock.

- (5) If the product emits smoke, and abnormal smell, or makes an abnormal sound,

immediately turn off the power. Continuing to use the product, it may cause fire or electric shock.

(6) Do not disconnect or connect the connector while power to the product is on. It takes some time for the voltage to drop to a sufficiently low level after the power has been turned off. Confirm that the voltage has dropped to a safe level before disconnecting or connecting the connector.

(7) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.

(8) Do not damage or modify the power cable. It may cause fire or electric shock.

(9) If the power cable is damaged, or if the connector is loose, do not use the product: otherwise, this can lead to fire or electric shock.

(10) If the power connector or the connector of the power cable becomes dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to fire.

(11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

1.2 NOTES

Notes on Safe Handling of the LCD panel and during service

The work procedures shown with the Note indication are important for ensuring the safety of the product and the servicing work. Be sure to follow these instructions.

- Before starting the work, secure a sufficient working space.
- At all times other than when adjusting and checking the product, be sure to turn OFF the POWER Button and disconnect the power cable from the power source of the TV during servicing.
- To prevent electric shock and breakage of PC board, start the servicing work at least 30 seconds after the main power has been turned off. Especially when installing and removing the power board, start servicing at least 2 minutes after the main power has been turned off.
- While the main power is on, do not touch any parts or circuits other than the ones specified. If any connection other than the one specified is made between the measuring equipment and the high voltage power supply block, it can result in electric shock or activation of the leakage-detection circuit breaker.
- When installing the LCD module in, and removing it from the packing carton, be sure to have at least two persons perform the work.
- When the surface of the panel comes into contact with the cushioning materials, be sure to confirm that there is no foreign matter on top of the cushioning materials before the surface of the panel comes into contact with the cushioning materials. Failure to observe this precaution may result in, the surface of the panel being scratched by foreign matter.

- When handling the circuit board, be sure to remove static electricity from your body before handling the circuit board.
- Be sure to handle the circuit board by holding the large parts as the heat sink or transformer. Failure to observe this precaution may result in the occurrence of an abnormality in the soldered areas.
- Do not stack the circuit boards. Failure to observe this precaution may result in problems resulting from scratches on the parts, the deformation of parts, and short-circuits due to residual electric charge.
- Routing of the wires and fixing them in position must be done in accordance with the original routing and fixing configuration when servicing is completed. All the wires are routed far away from the areas that become hot (such as the heat sink). These wires are fixed in position with the wire clamps so that the wires do not move, thereby ensuring that they are not damaged and their materials do not deteriorate over long periods of time. Therefore, route the cables and fix the cables to the original position and states using the wire clamps.
- Perform a safety check when servicing is completed. Verify that the peripherals of the serviced points have not undergone any deterioration during servicing. Also verify that the screws, parts and cables removed for servicing purposes have all been returned to their proper locations in accordance with the original setup.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the products enclosure that may be of

sufficient magnitude to constitute a risk of electric shock.

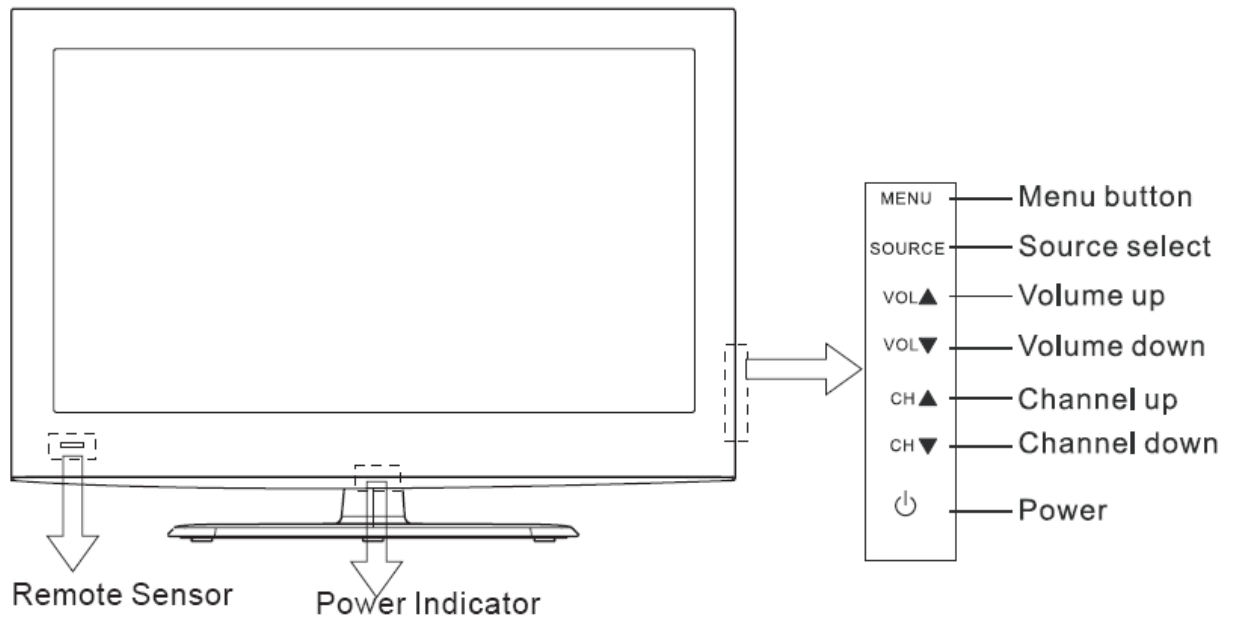


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the set.

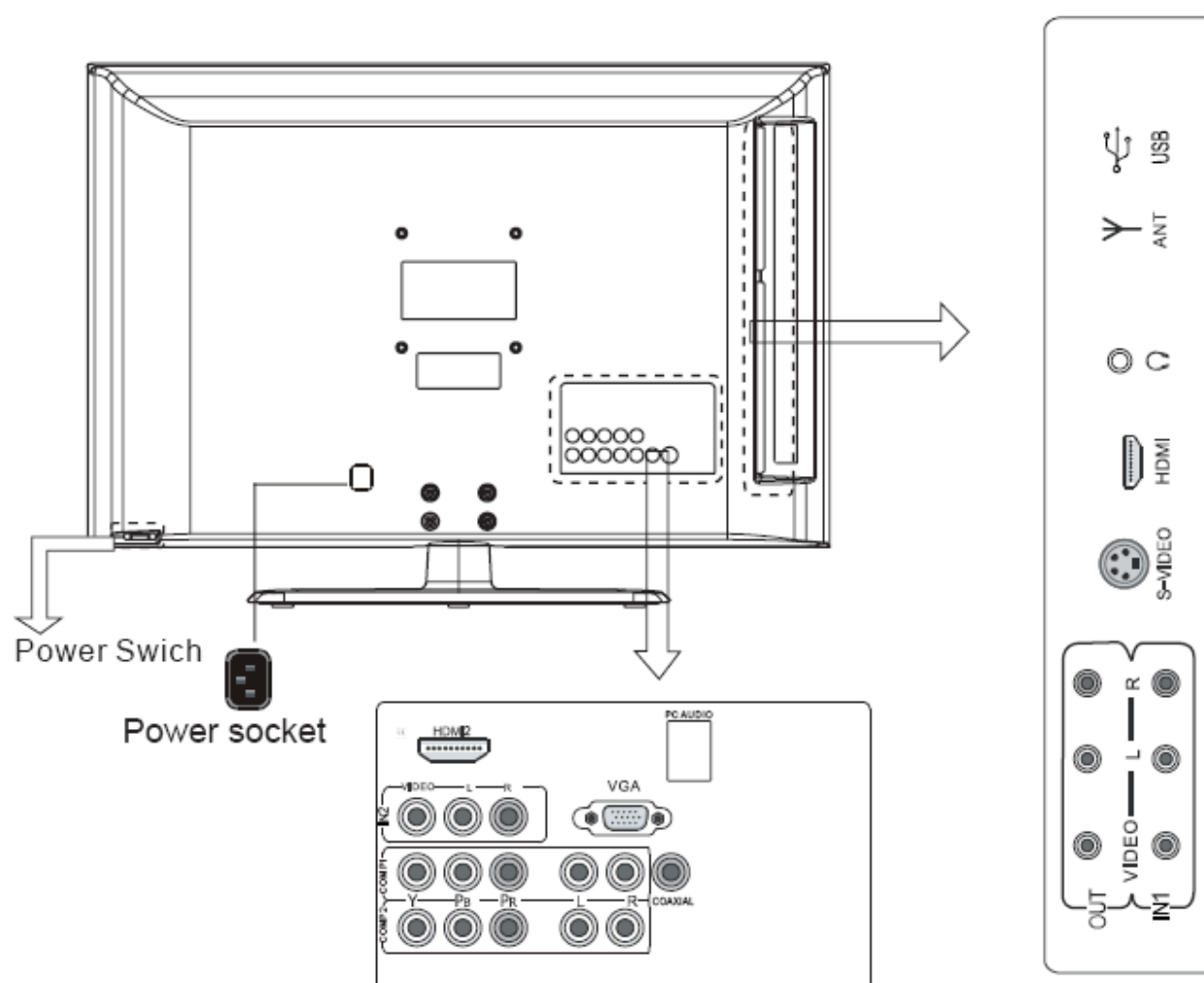
2. Product Function Specifications

2.1 Product Function

TV Front



TV Rear



2.2 Specifications

3. LCD Panel Spec

3.1 LCD26V88AM

Model : V260B2-L03\JK\ROH SN : 1056993

3.1.1 General Description

1.1 OVERVIEW

V260B2- L03 is a TFT Liquid Crystal Display module with 4U-CCFL Backlight unit and 1ch-LVDS interface. The display diagonal is 26". This module supports 1366 x 768 WXGA format and can display 16.2M colors (6-bit+FRC colors).

1.2 FEATURES

- Optimized Brightness 450nits
- Contrast Ratio (800:1)
- Fast Response Time (5ms)
- Color Saturation NTSC 72%
- WXGA (1366 x 768 pixels) Resolution
- DE (Data Enable) Only Mode
- LVDS (Low Voltage Differential Signaling) Interface
- Viewing Angle: 160(H)/150(V) (CR>10) TN Technology
- Color Reproduction (Nature Color)

3.1.2 General Features

Item	Specification	Unit
Active Area	575.769 (H) x 323.712 (V) (26" Diagonal)	mm
Bezel Opening Area	580.8 (H) x 328.8 (V)	mm
Driver Element	a-si TFT Active Matrix	—
Pixel Number	1366 x R.G.B. x 768	pixel
Pixel Pitch (Sub Pixel)	0.1405 (H) x 0.4215 (V)	mm
Pixel Arrangement	RGB Vertical Stripe	—
Display Colors	16.2M	color
Display Operation Mode	Transmissive Mode / Normally White	—
Surface Treatment	Anti-Glare Coating (Haze 25%) Hard Coating (3H)	—

3.2、LCD32V88AM

Model : T315XW02VS\JK\ROH SN : 1057962

3.2.1 General Description

LCD TV Service Manual

This specification applies to the 31.51 inch Color TFT-LCD Module T315XW02 VS. This LCD module has a TFT active matrix type liquid crystal panel 1366x768 pixels, and diagonal size of 31.51 inch. This module supports 1366x768 XGA-WIDE mode (Non-interlace).

Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8-bit gray scale signal for each dot.

The T315XW02 VS has been designed to apply the 8-bit 1 channel LVDS interface method. It is intended to support displays where high brightness, wide viewing angle, high color saturation, and high color depth are very important.

The T315XW02 VS model is RoHS verified which can be distinguished on panel label.

3.2.2 General Features

Items	Specification	Unit	Note
Active Screen Size	31.51 inches		
Display Area	697.685 (H) x 392.256(V)	mm	
Outline Dimension	760.0(H) x 450.0(V) x 45(D)	mm	With Inverter
Driver Element	a-Si TFT active matrix		
Display Colors	16.7M	Colors	
Number of Pixels	1366 x 768	Pixel	
Pixel Pitch	0.51075	mm	
Pixel Arrangement	RGB vertical stripe		
Display Mode	Normally Black		
Surface Treatment	Anti-Glare, 3H		Haze =11 %

4. Chassis Layout and Overall Wiring Diagrams

Chassis Layout

LCD26V88AM

No	Description	Part No.	Type/Model	PCB/ Model

LCD TV Service Manual

(1)	Main Board	121044	RSAG2.908.1525-1\ROH	RSAG7.820.1702\VER.D\ROH
(2)	Power Board	118984	RSAG2.908.1498\ROH	RSAG7.820.1646\VER.C\ROH
(3)	Keypad PCA	121048	RSAG2.908.1573-4\ROH	RSAG7.820.1755\VER.A\ROH
(4)	IR Board	120680	RSAG2.908.1551-2\ROH	RSAG7.820.1733\VER.B\ROH
(5)	Led Board	119914	RSAG2.908.1552\ROH	RSAG7.820.1732\VER.A\ROH

LCD32V88AM

No	Description	Part No.	Type/Model	PCB/ Model
(1)	Main board	121044	RSAG2.908.1525-1\ROH	RSAG7.820.1702\VER.D\ROH
(2)	Power board	117562	RSAG2.908.1285-1\ROH	RSAG7.820.1377\VER.B\ROH
(3)	Keypad	121048	RSAG2.908.1573-4\ROH	RSAG7.820.1755\VER.A\ROH
(4)	IR board	121225	RSAG2.908.1566-3\ROH	RSAG7.820.1725\VER.C\ROH
(5)	Led Board	120110	RSAG2.908.1534-2\ROH	RSAG7.820.1699\VER.B\ROH

5. Factory/Service OSD Menu and Adjustment

5.1 To enter the Factory OSD Menu

a. With factory RC (remote control)

1. Press “M” button and enter factory mode.
2. Press “Menu” button and enter factory OSD menu.
3. Press “CH+”/“CH-” button select the function menu, press “VOL+”/“VOL-” enter the selected function menu. Press “VOL+”/“VOL-” button adjust values in the menu.
4. Press “M” button exit factory mode in the factory OSD menu.

LCD TV Service Manual

When TV outgoing factory, user can not enter factory OSD menu with Factory Remote

b. With user's RC

1. Power TV On
2. Press Menu button and call up User OSD Menu
3. Select Sound-> Balance
4. When Balance value is "0", Enter 0->5->3 ->2 in sequence.
Note: If necessary, re-do number keys.
5. Factory OSD appears.
6. Press the standby button then AC turn off and restart the TV, which can exit factory OSD menu.

5.2 Factory OSD Menu

The Factory OSD Menu comprises Factory Menu and Design Menu .

5.2.1、 Factory Menu

Factory Menu
White Balance
ADC Adjust
LOGO
OSD Language
Country
Options
Factory Init
Test Pattern
Version:

White Balance
Col Temp standard
R DRV 126
G DRV 128
B DRV 128
R CUT 32
G CUT 32
B CUT 32

LCD TV Service Manual

ADC Adjust

Only in component and VGA

SOURCE ,The 擋 DC
Adjust ◆ Can be chosen.

LOGO

NULL
HISENSE
WELCOME
CUSTOMER

Option

SOURCE TV
TOFAC M
AGC TOP 5
AGC CURVE 80
ATS 1
Star TUP Menu 1
MACHINE TYPE 0
HIDEF 1

Factory Init

QingDao
HuangDao
Hungary
France
Australia
CLEAR PROTECTLY
CLEAR UNPROTECTLY

LCD TV Service Manual

Test Pattern

Test pattern NULL

Version

Version:
Panel Type:
FLASH :

5.2.2、 Design Menu

Design Menu

Picture Mode
Sound Mode
Picture Curve
Audio Curve
SSC Setting
Saving MODE

LCD TV Service Manual

Picture Mode

Mode	Standard
Brightness	50
Contrast	50
Colour	50

Sound Mode

Mode	User
120Hz	10
500Hz	10
1.5KHz	10
5KHz	10
10KHz	10

Picture Curve

Mode	Brightness
Curve 0	97
Curve 25	105
Curve 50	120
Curve 75	130
Curve 100	141

Audio Curve

Mode	Volume
Curve 0	0
Curve 25	18
Curve 50	22
Curve 75	28
Curve 100	36

SSC Setting

DDR SSC	2
DDR MCM	60
LVDS SSC	2
LVDS PCM	60

Saving MODE

255

Note :

The above "Factory/Service OSD Menu" are reference only, please refer to the actual units to

determine the appearances.

6. Software Upgrading

The software is upgraded by a burning tool- ISP_TOOL4.0.9, which can burn the program file“* . bin” to the main board of the unit

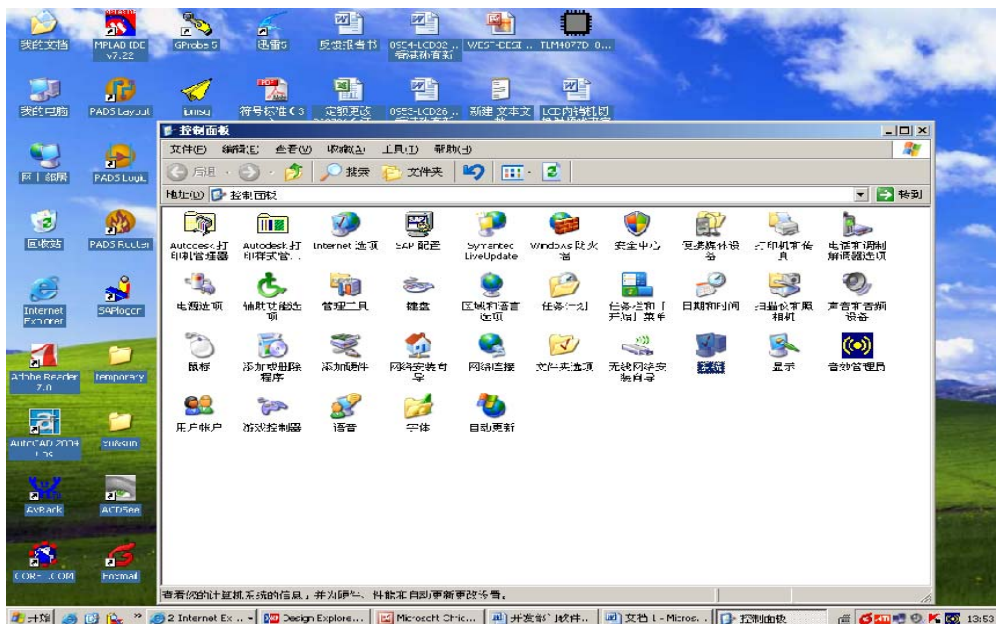
6.1 Get ready for upgrading

6.1.1 Install the ISP_TOOL4.0.9-----only for the first time update.

1、 Port Setting :

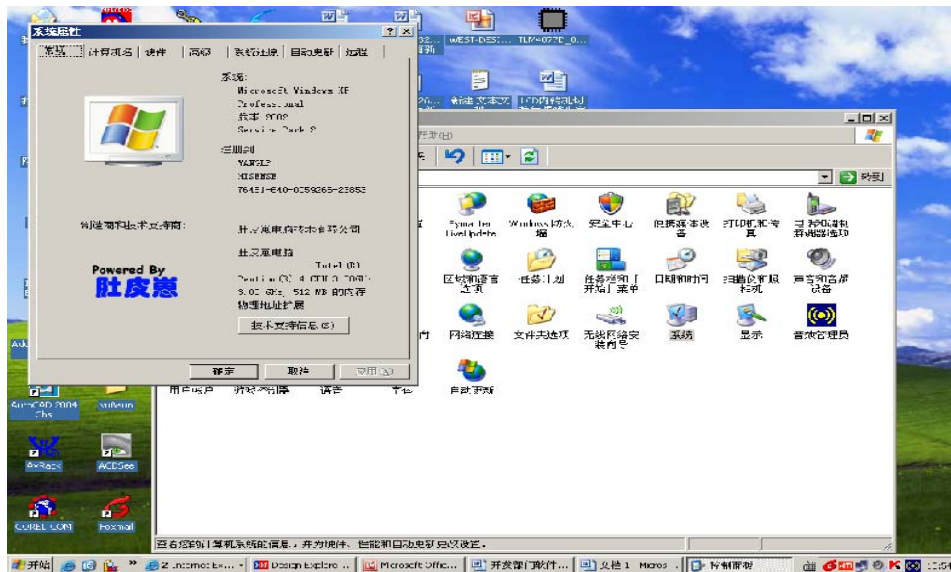


Choose “system” option from the “control panel”



Click the “system” icon as the following

LCD TV Service Manual

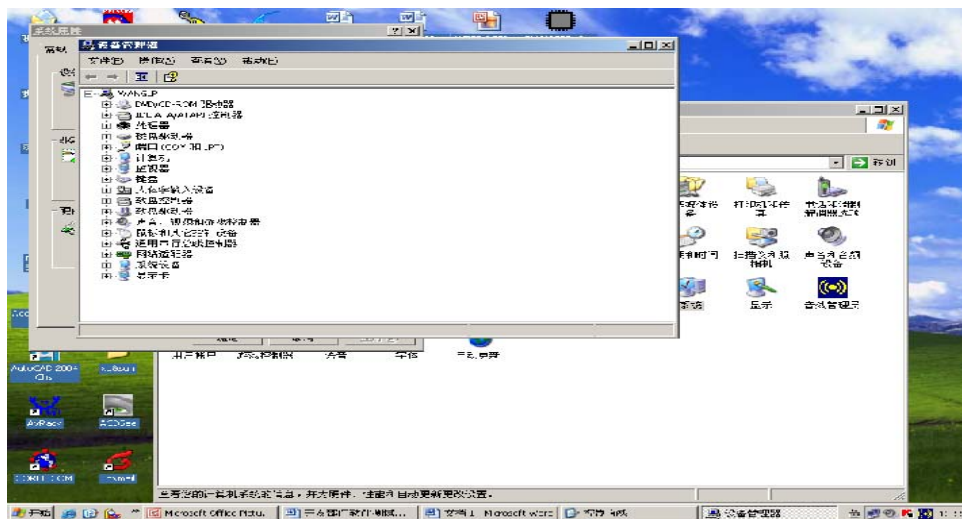


Choose the “hardware” option from the dialog window

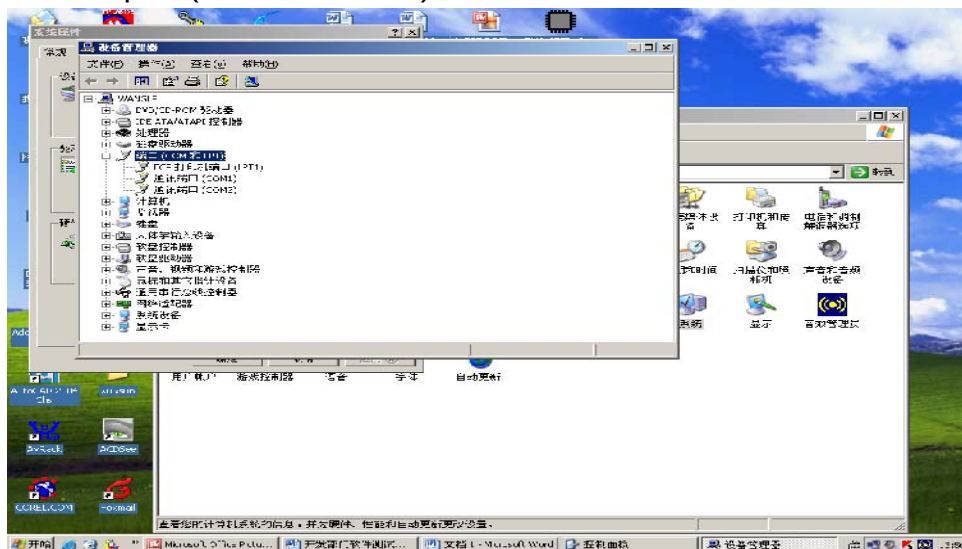


Click “device management” icon as the following

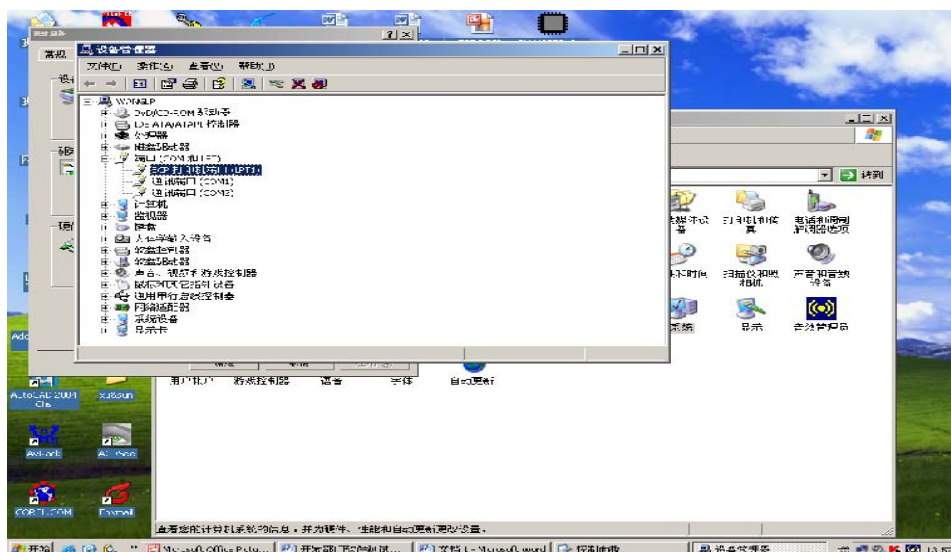
LCD TV Service Manual



Choose the port (COM and LPT1)

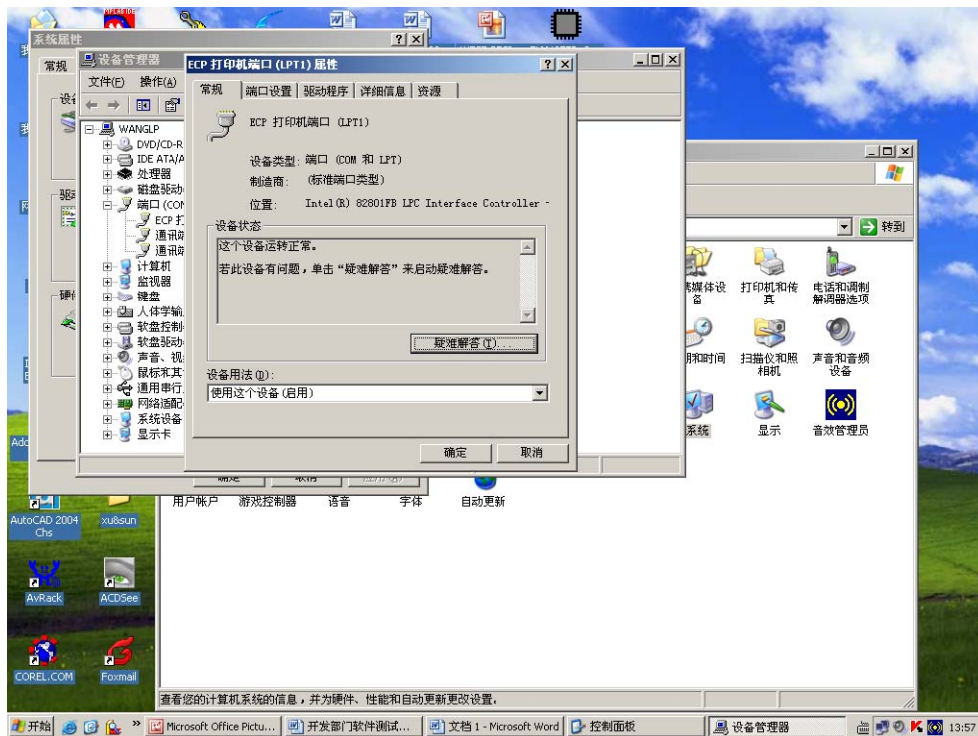


Choose the ECP print port (LPT1)

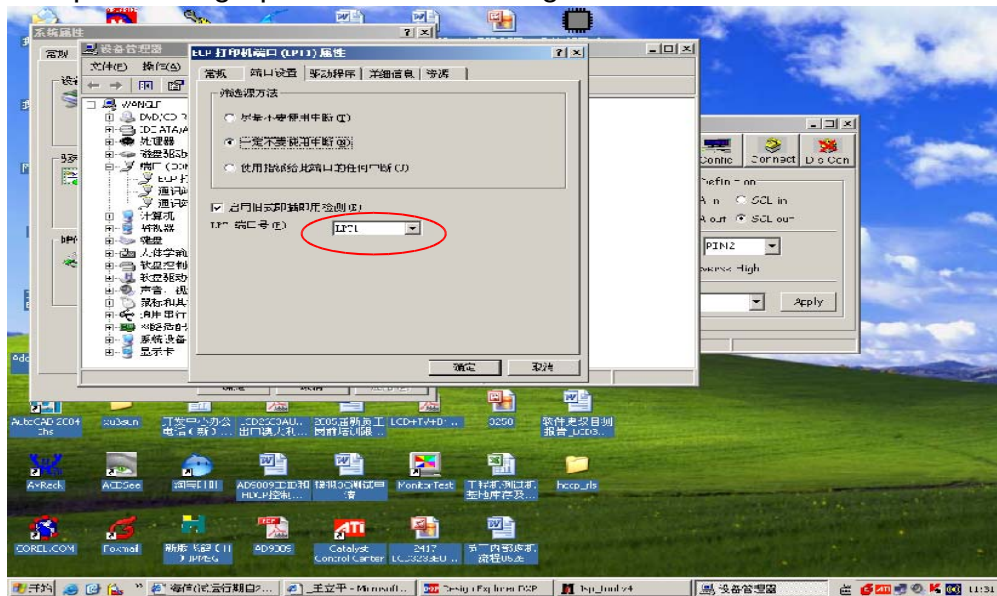


LCD TV Service Manual

Click the port of print (LPT1) as the following

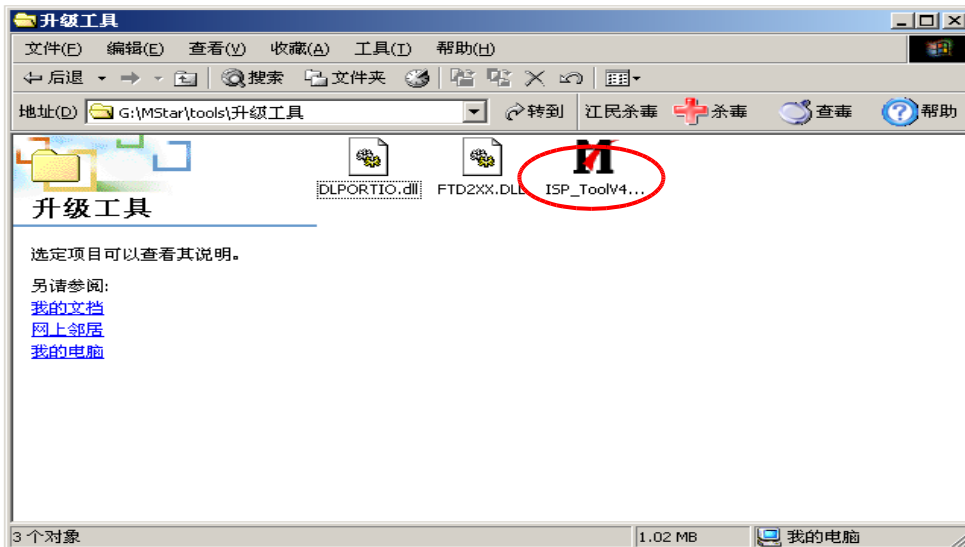


Choose “port setting” option as the following

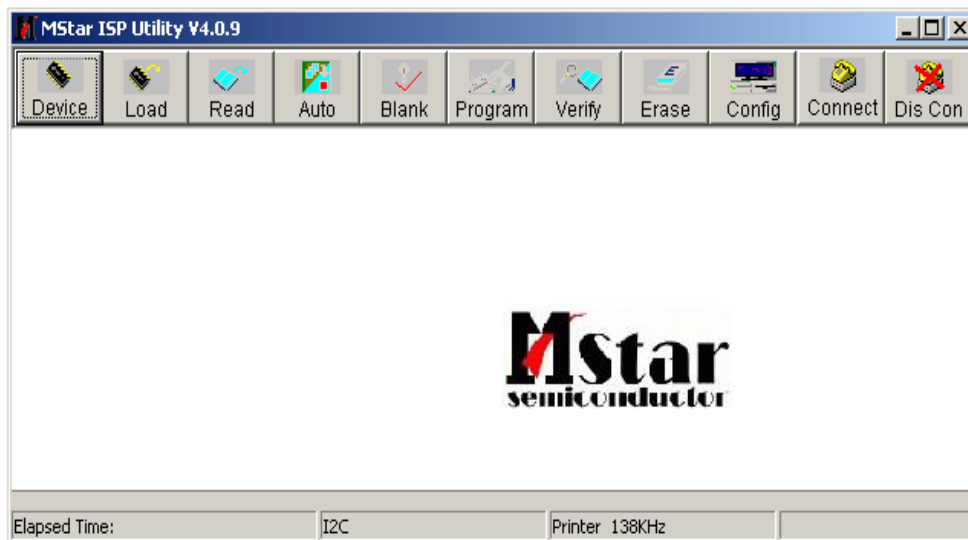


LCD TV Service Manual

- 2、 Find the folder where the ISP_TOOL4.0.9 lies in.
There are three folders/files in this folder together.
DLPORTIO.dll and FTD2XX.DLL must be in the same folder



Double click the ISP_TOOL4.0.9 icon, and then a dialog window will show as below.



LCD TV Service Manual

Click the **Config** button. And then a dialog window will show as below.

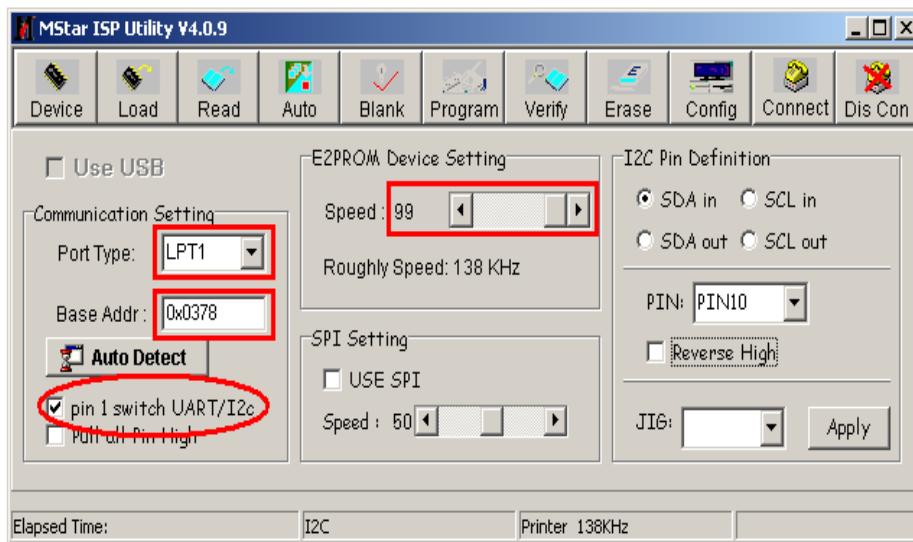
Port Type setting is LPT1

Base Addr setting is 0x378

Draw ☒ on the front of “pin 1 switch UART/I2c”

Speed setting is 99

As following

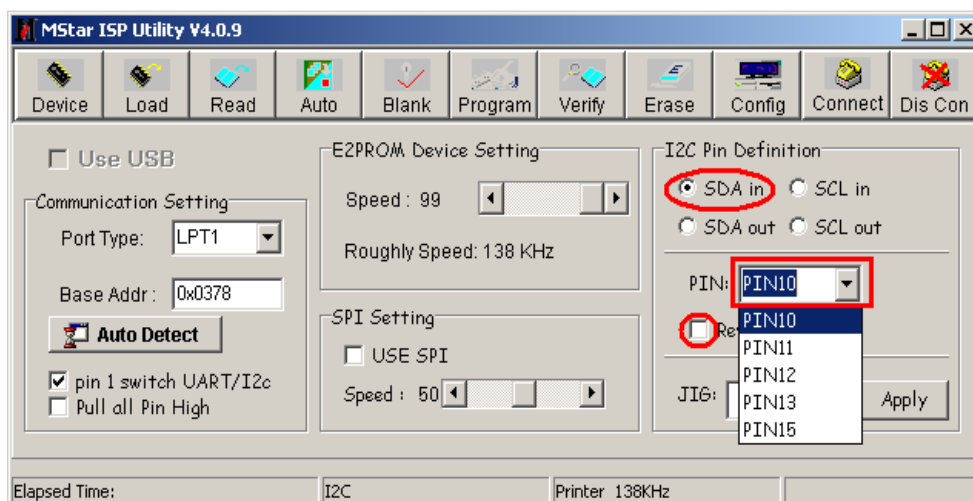


Choose “SDA in” and setting “PIN” is “PIN10”.

Notes:

Do not draw ☒ on the front of “Reverse High”.

As following

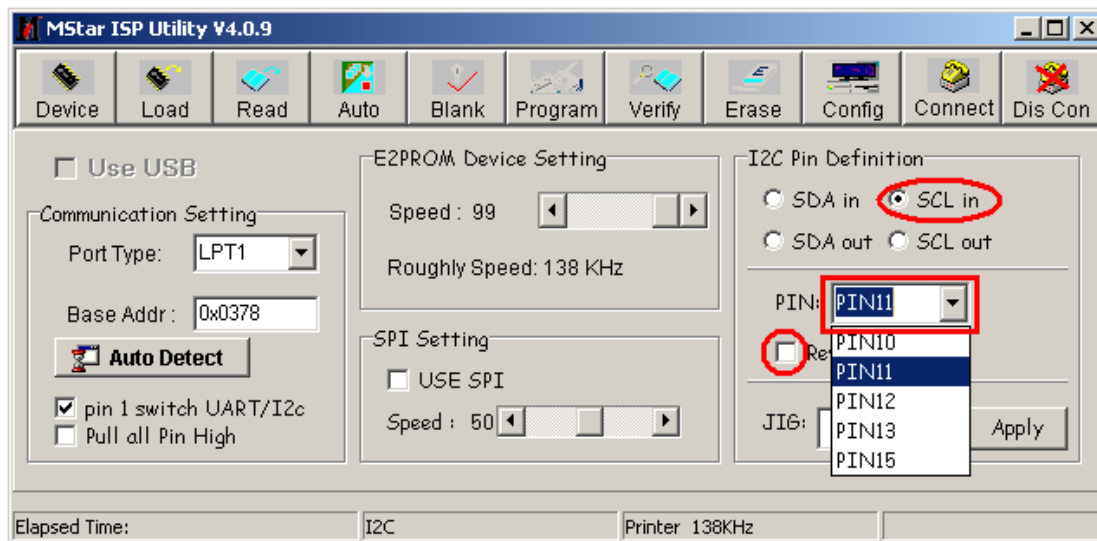


Choose “SCL in” and setting “PIN” is “PIN11”。

Notes:

Do not draw ☒ on the front of “Reverse High”。

As following



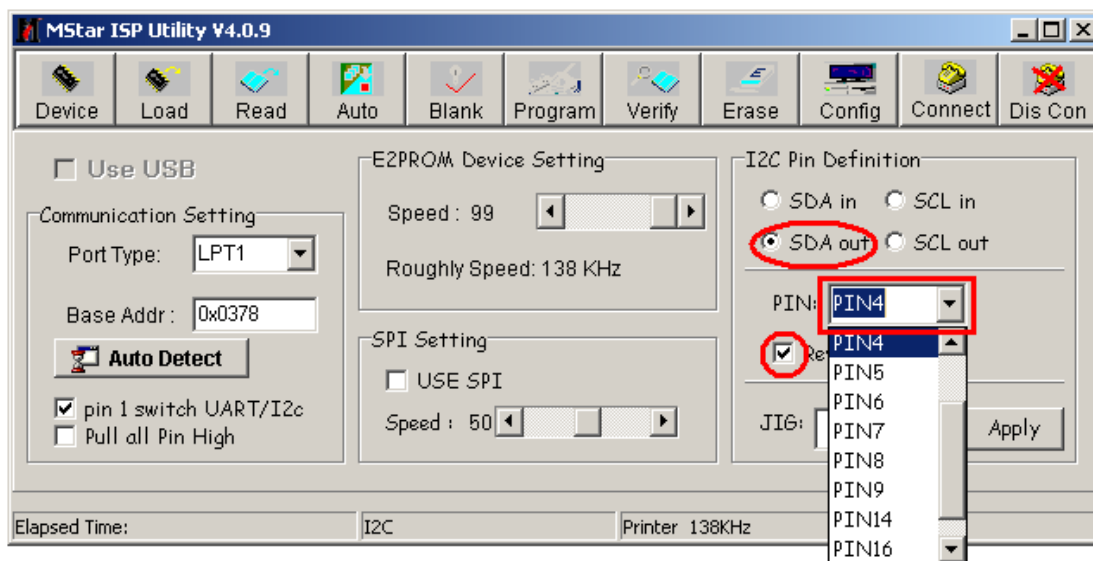
Choose “SDA out” and setting “PIN” is “PIN4”

Notes:

Draw ☒ on the front of “Reverse High”。

As following。

LCD TV Service Manual

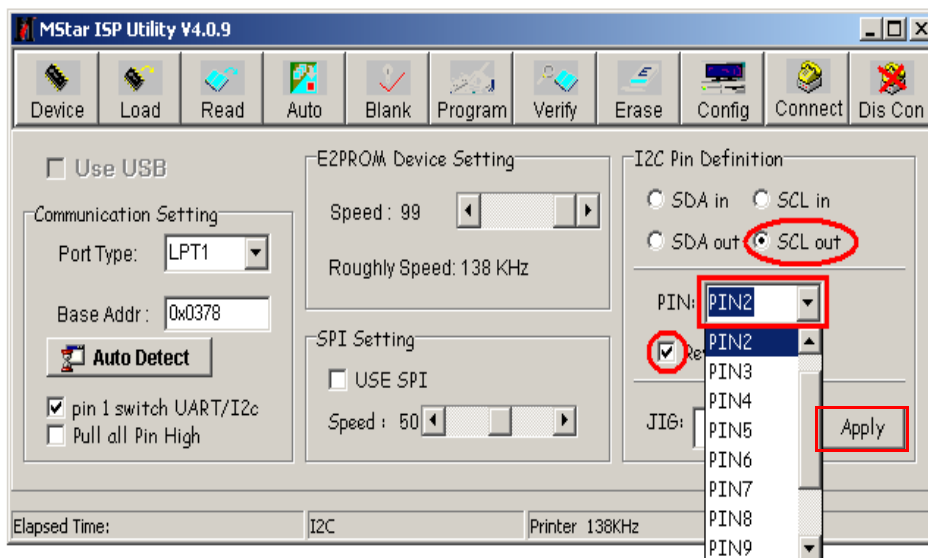


Choose “SCL out” and setting “PIN” is “PIN2”

Notes:

Draw ☒ on the front of “Reverse High”

As following

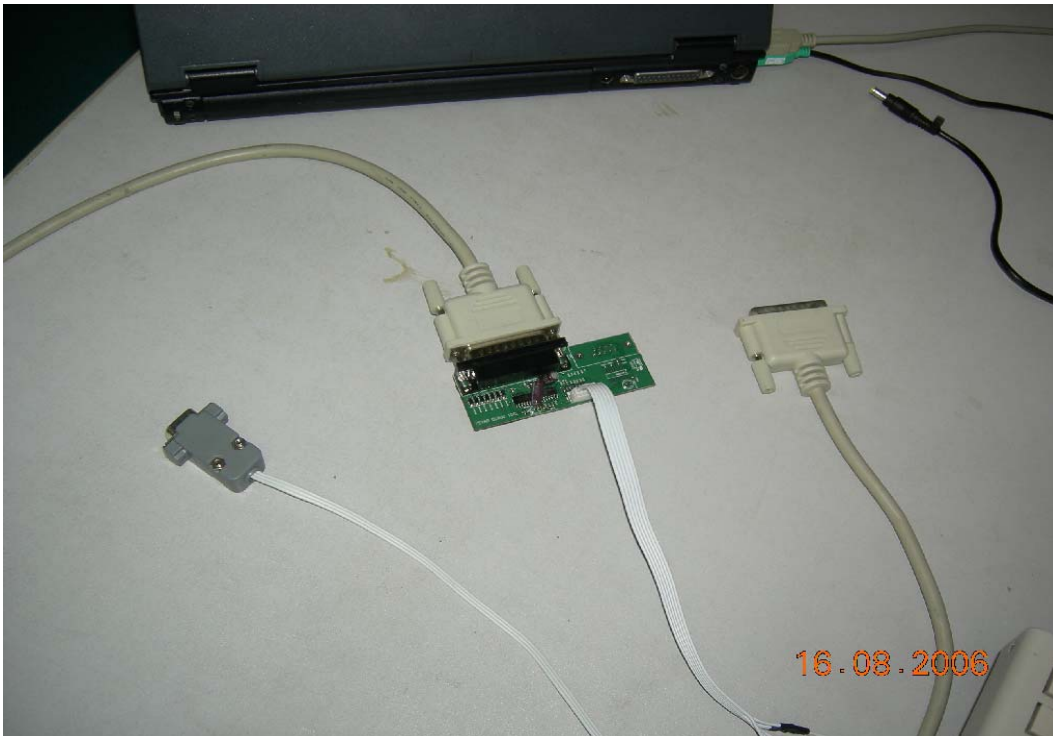


After having finished all above, clicking the “Apply ”button to complete the configuration.

6.1.2 Hardware connecting

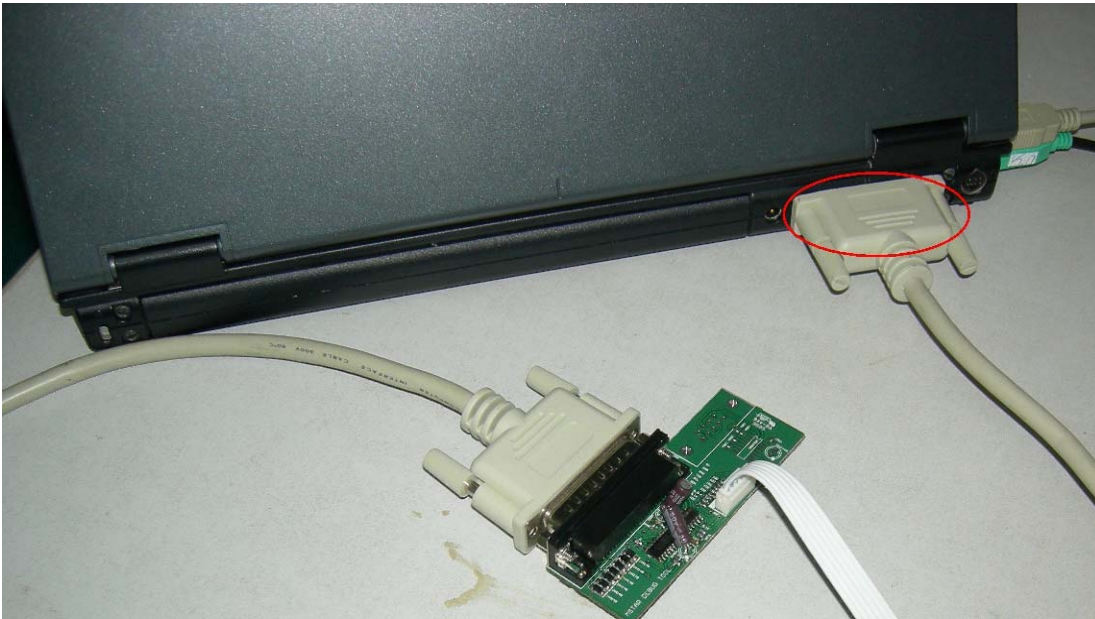
You can update the software through a special tool (as following)

LCD TV Service Manual



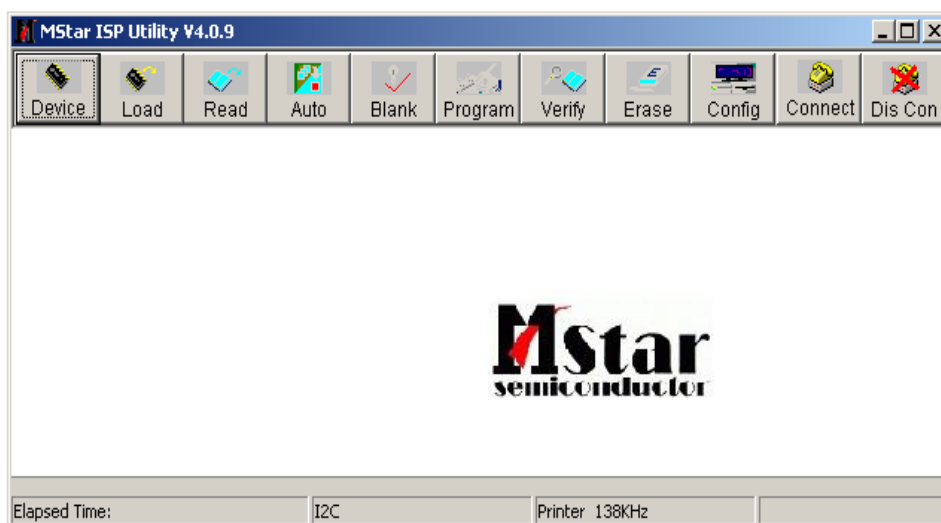
Connect the Debug board to the TV use VGA interface, the other parallel port to the computer, just as the following.





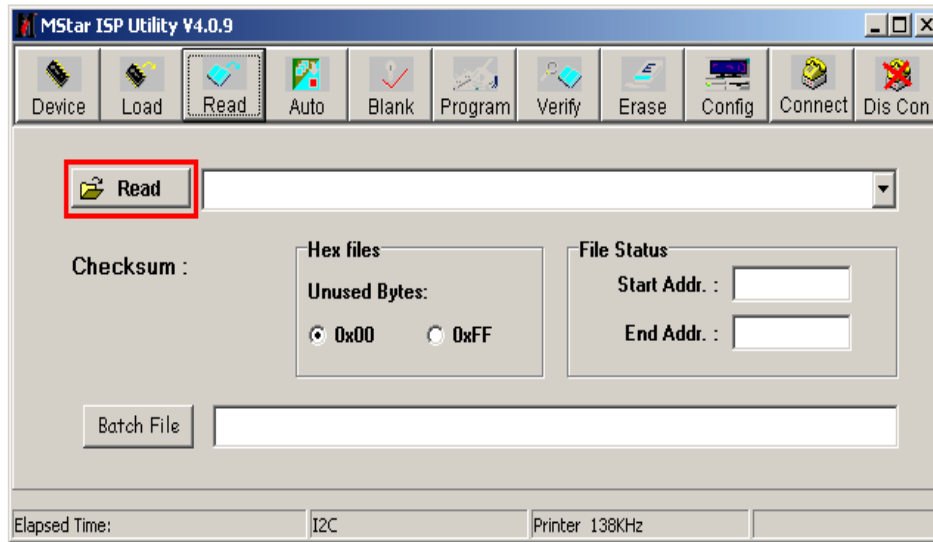
6.2 Upgrading with the ISP_TOOL4.0.9

6.2.1 Double click the ISP_TOOL4.0.9 icon and a dialog window will show as following.

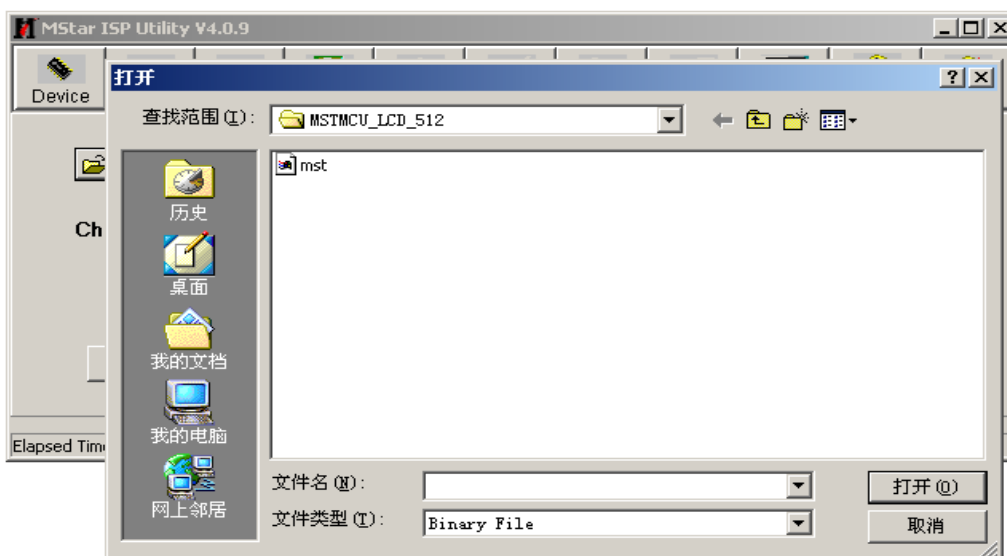


LCD TV Service Manual

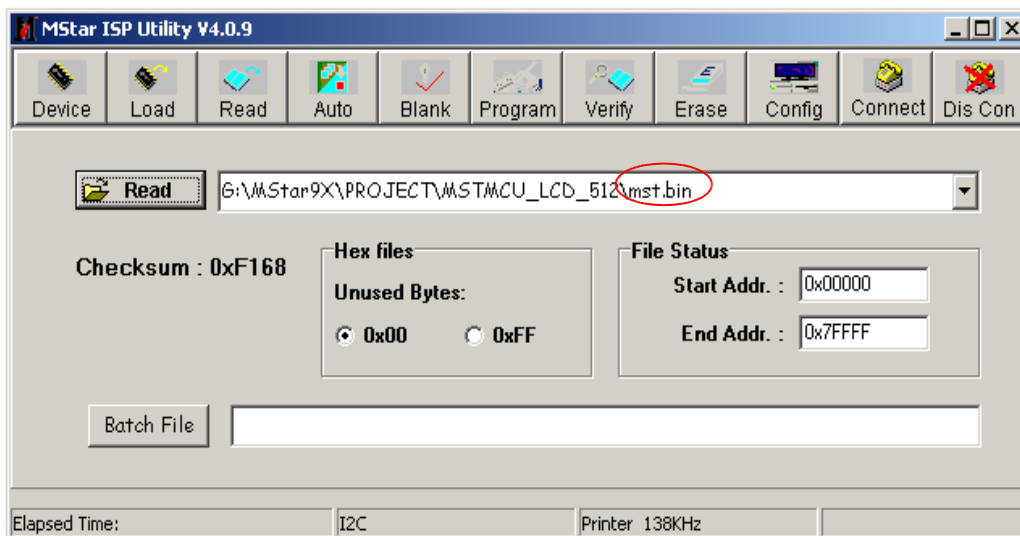
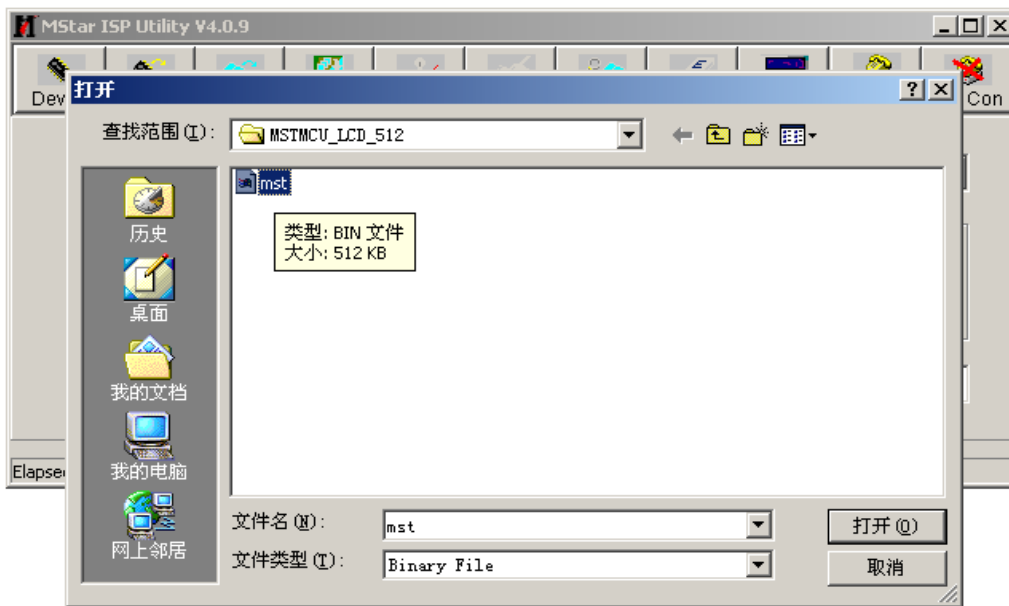
Click the “Read ”button.



Choose the update file from the folder.



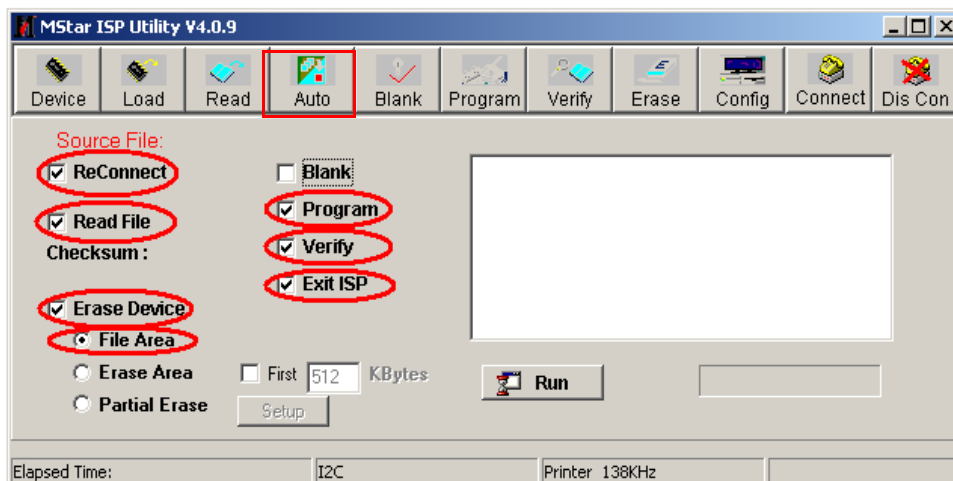
LCD TV Service Manual



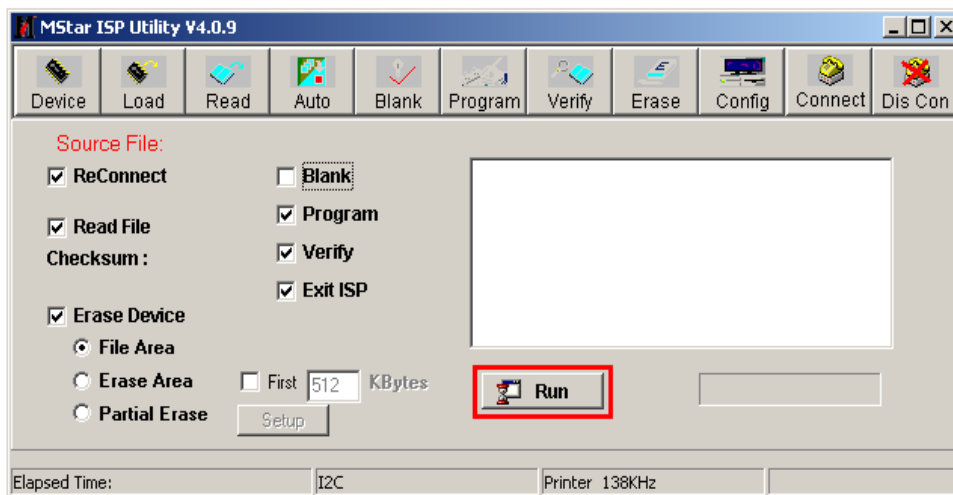
The update file has been chosen successfully。

Click the“Auto”button and choose parameters as following。

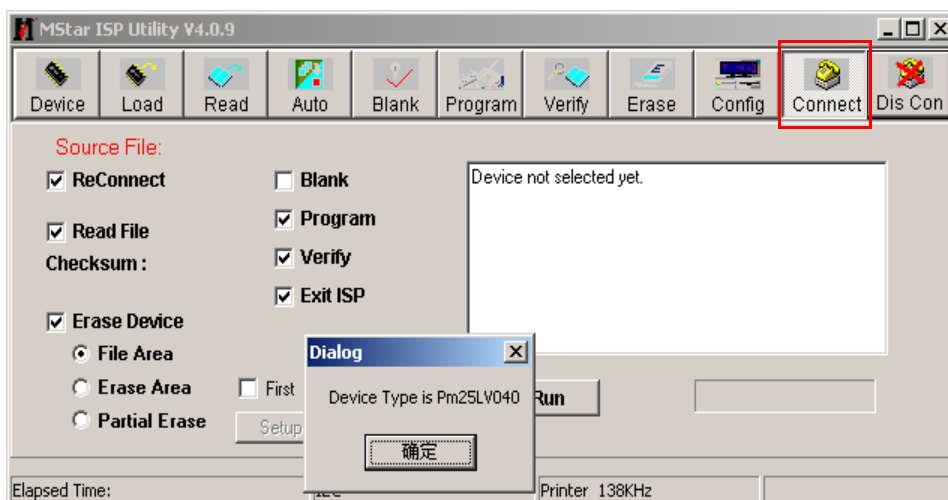
LCD TV Service Manual



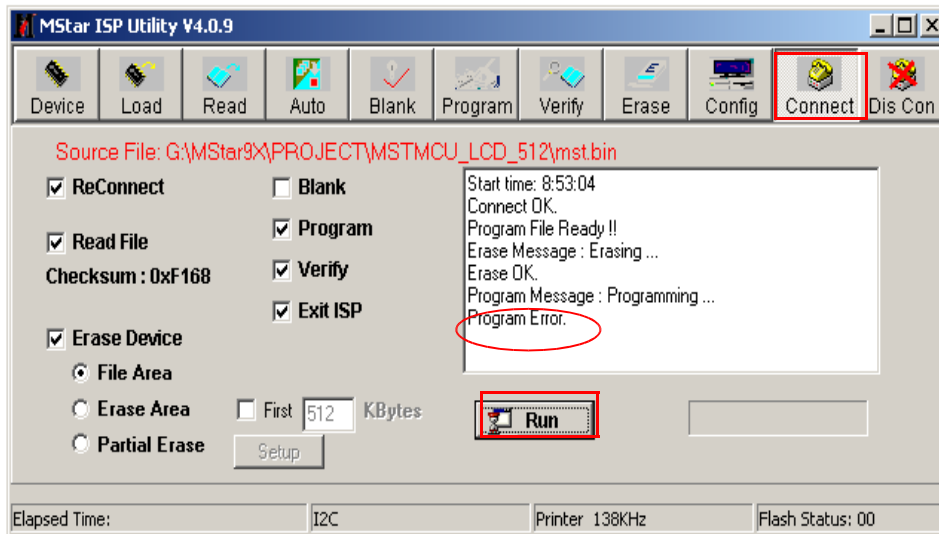
Click the“Run”button



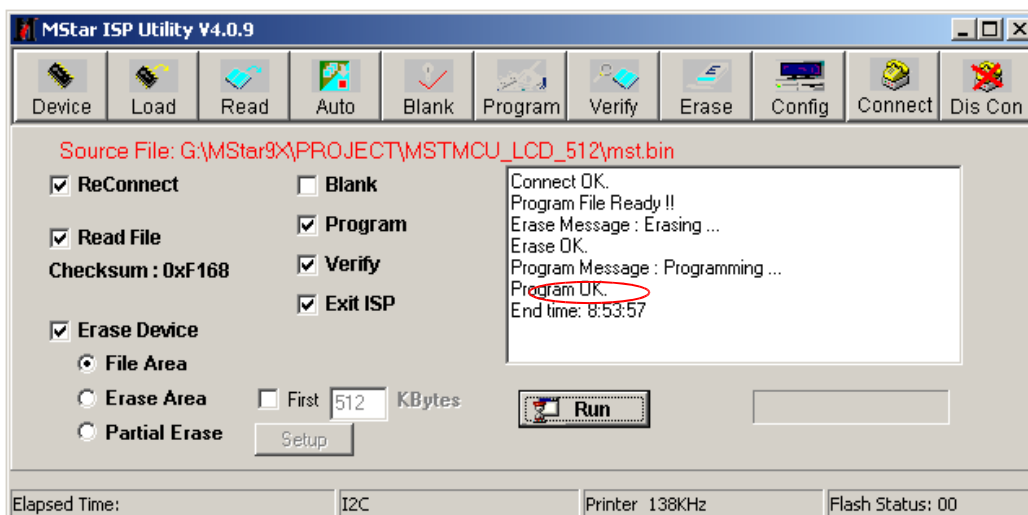
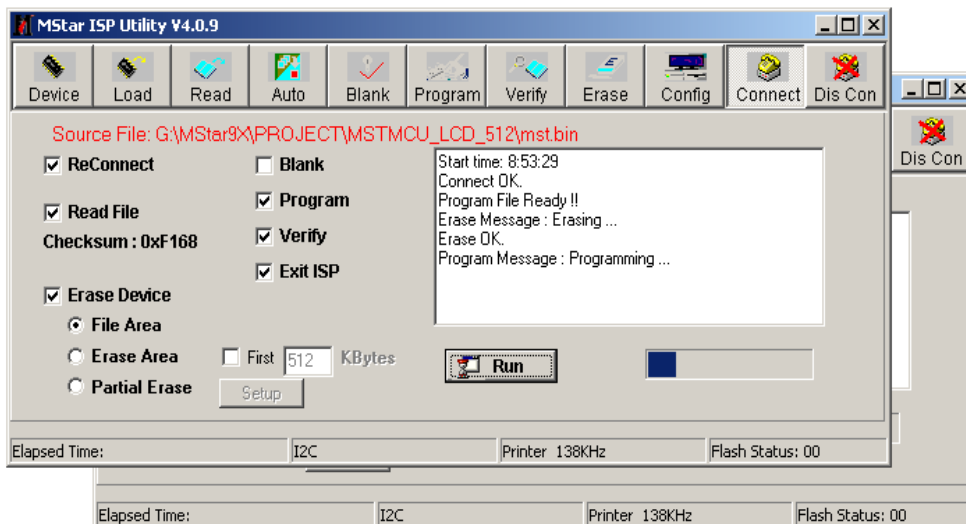
Click the“connect”button,then show a dialog box as following.



LCD TV Service Manual



If show above then click the“Run”button again and again , till show the following dialog window.



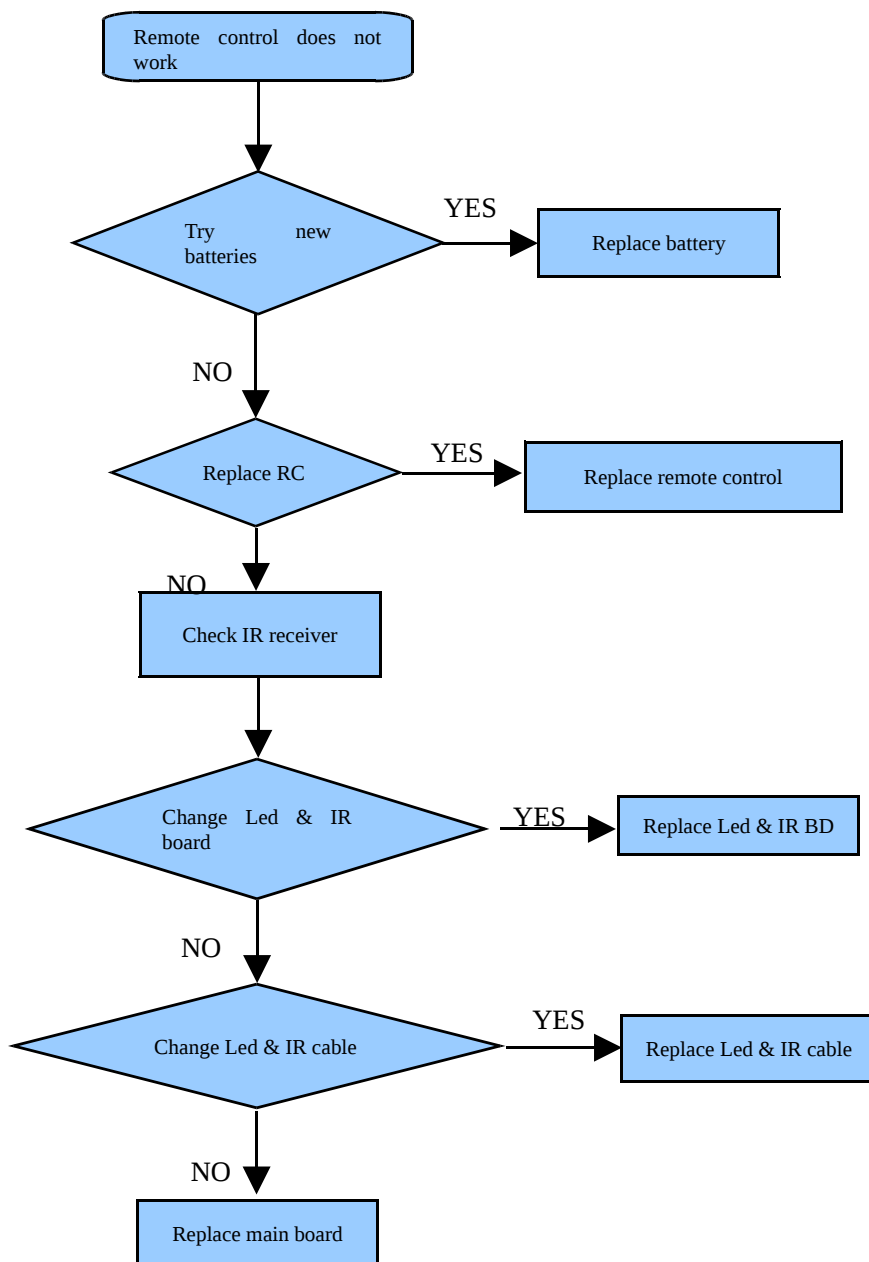
The above appears on the screen-the word "program ok"shows in the information displaying window,indicating upgrading is over.

6.2.2 After the update is over. Must Confirm the software Version in the Version Menu. If the update is successful, enter Factory Init Menu and select "Clear Unprotectly"

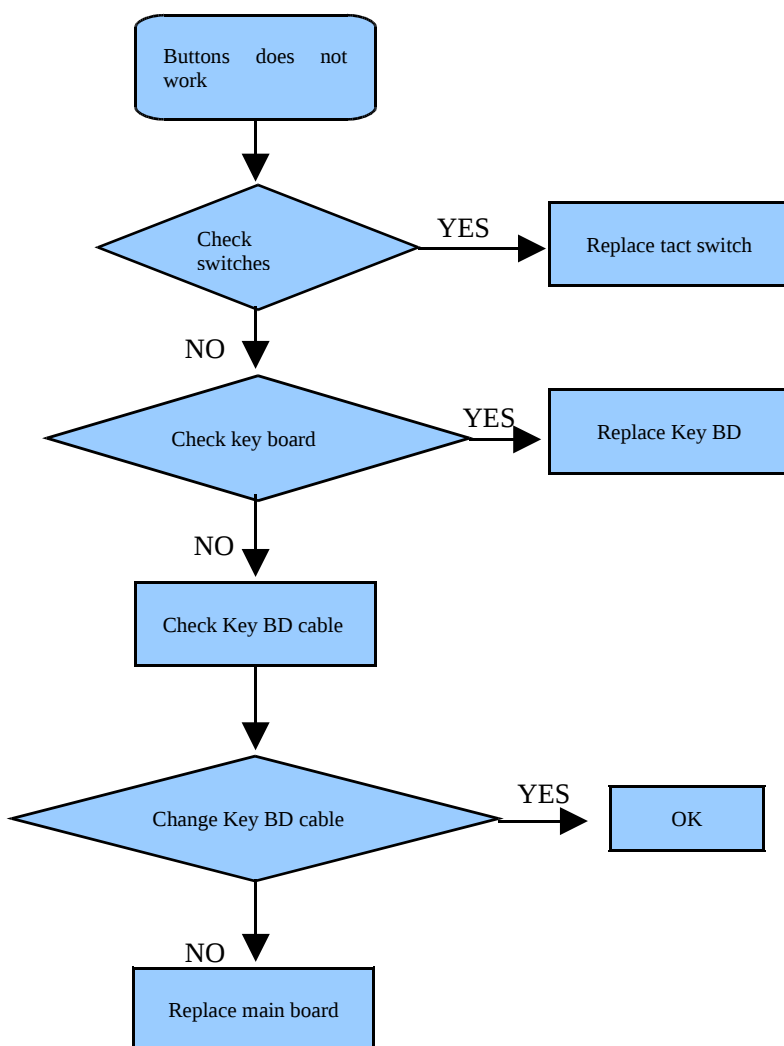
- a. Press VOL+ button to clear the EEPROM data.
- b. When the "Clear Unprotectly " button becomes white, turn off the power.
- c. Restart the TV.

7. Troubleshooting

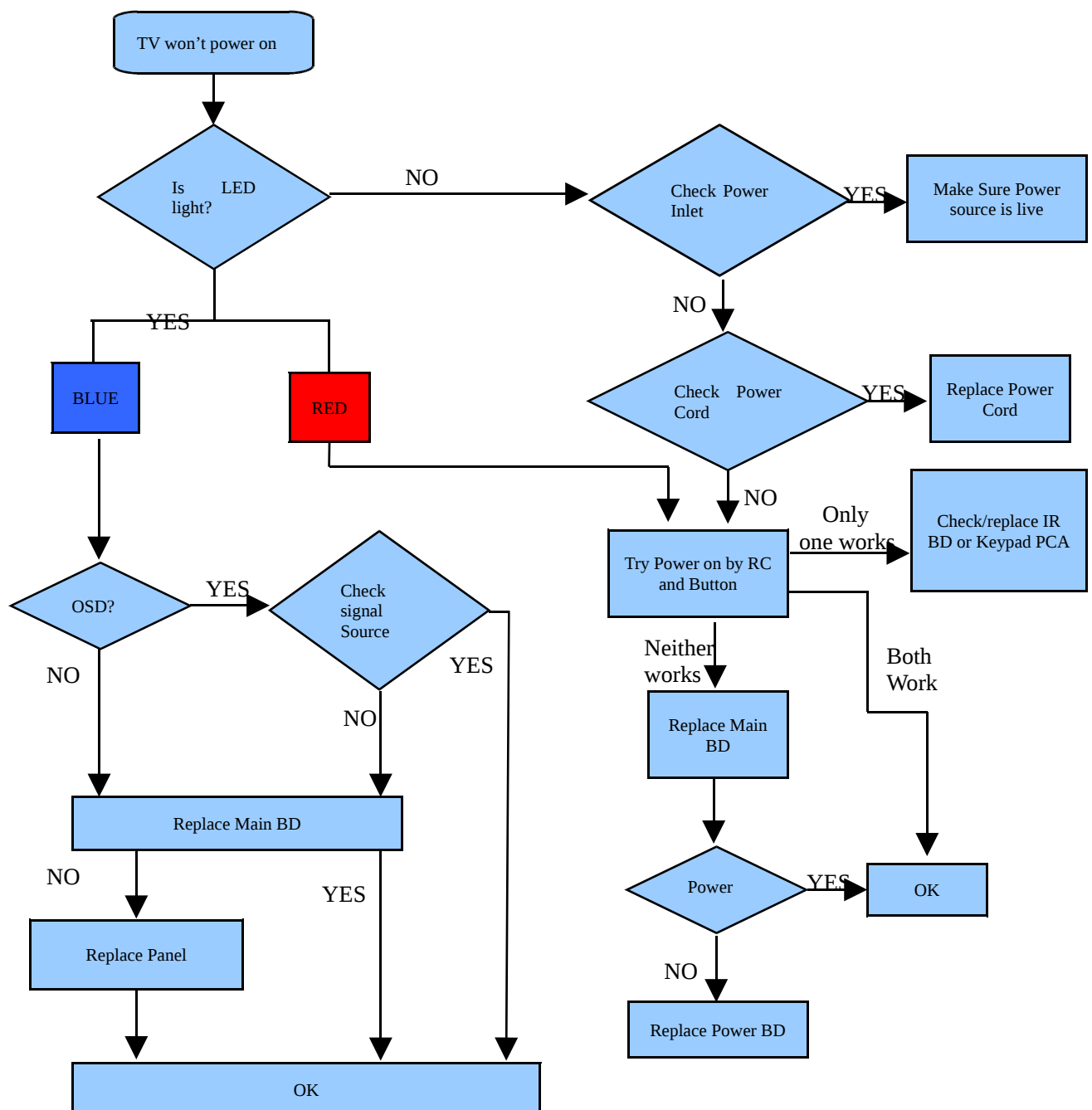
7.1 Troubleshooting for Remote Control



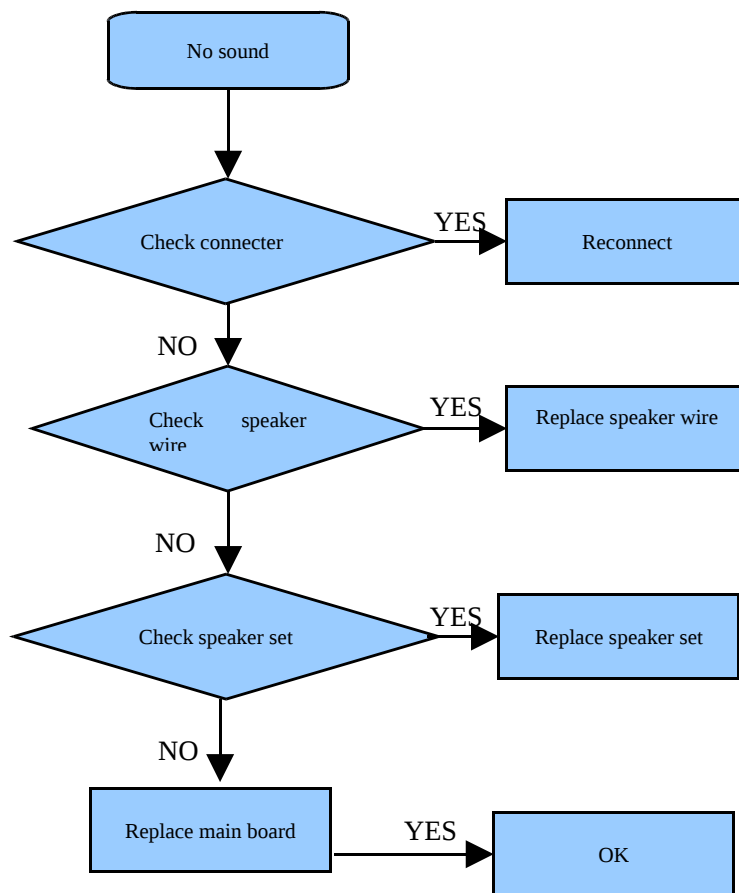
7.2 Troubleshooting for Function Key



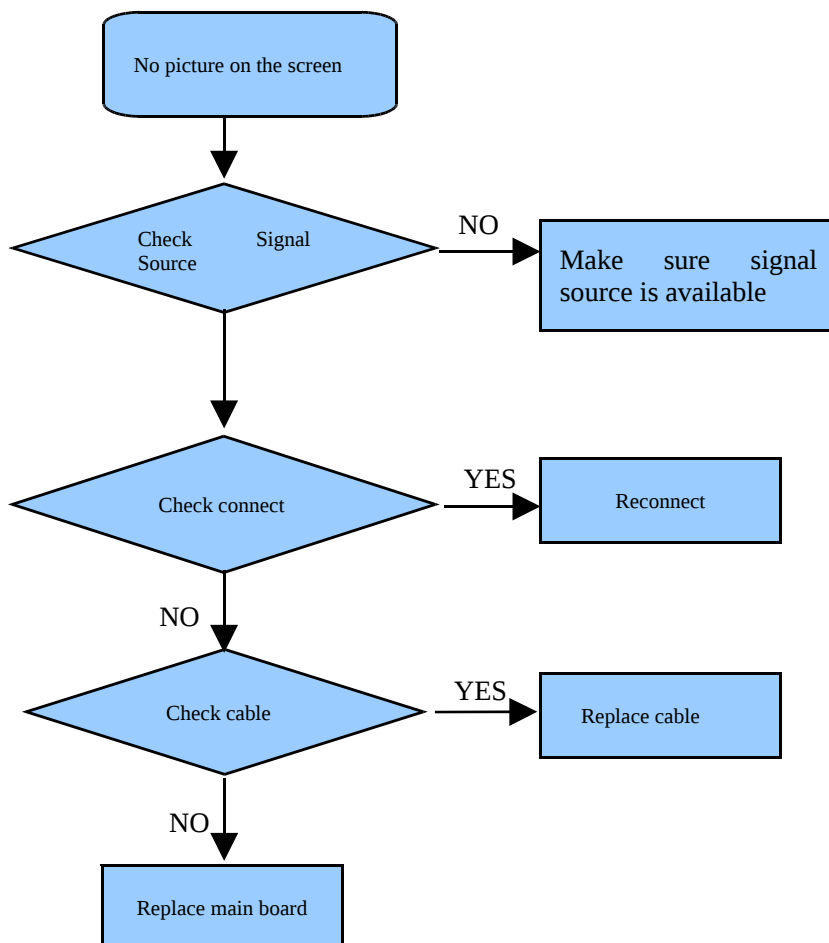
7.3 TV won't Power On



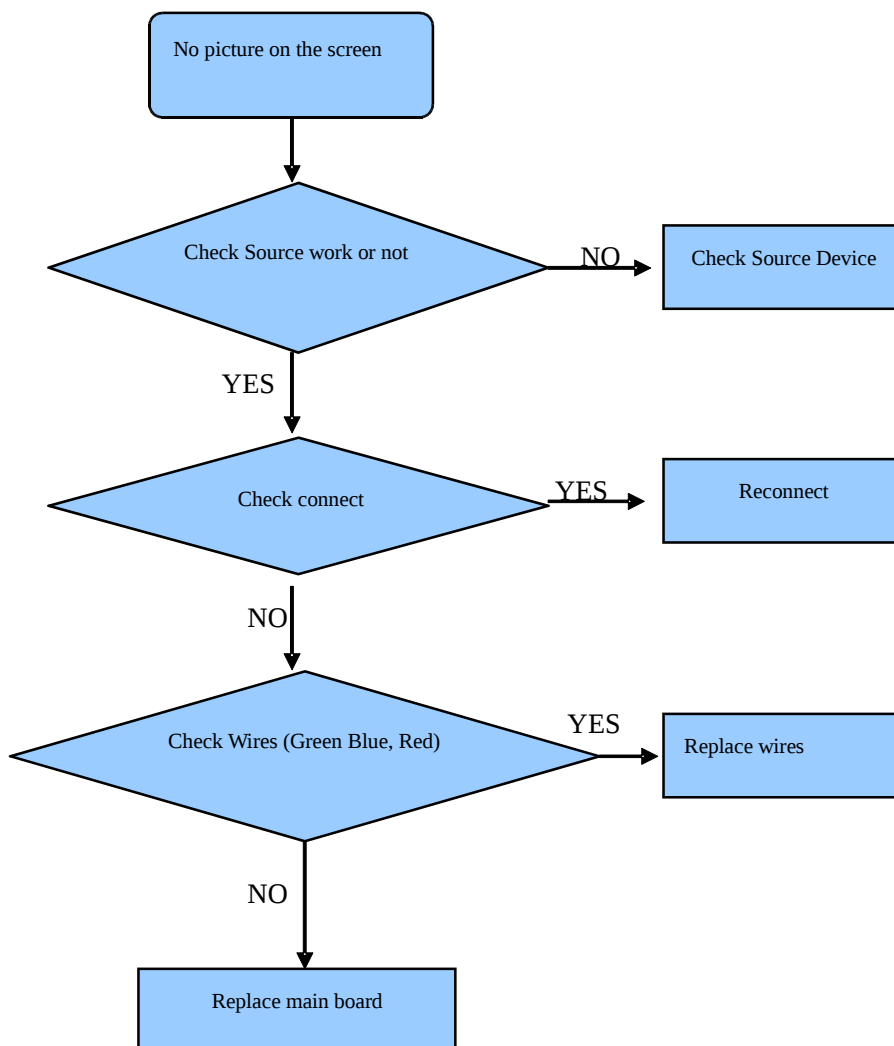
7.4 Troubleshooting for Audio



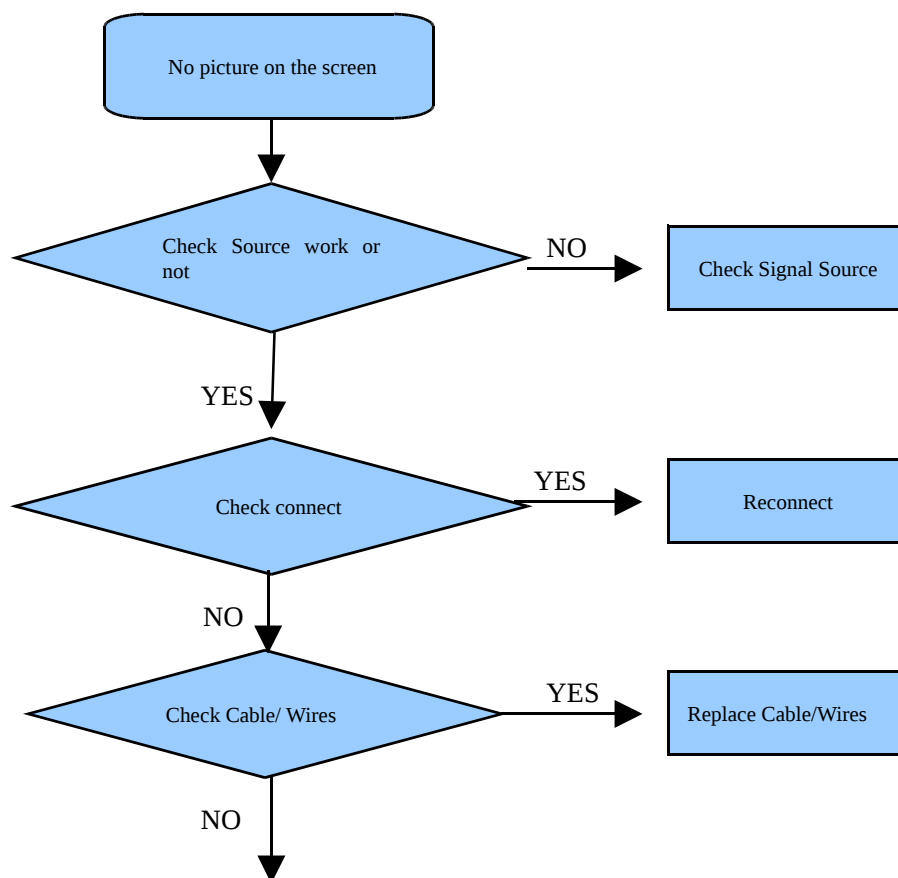
7.5 Troubleshooting for TV/VGA/HDMI input



7.6 Troubleshooting for YPbPr input



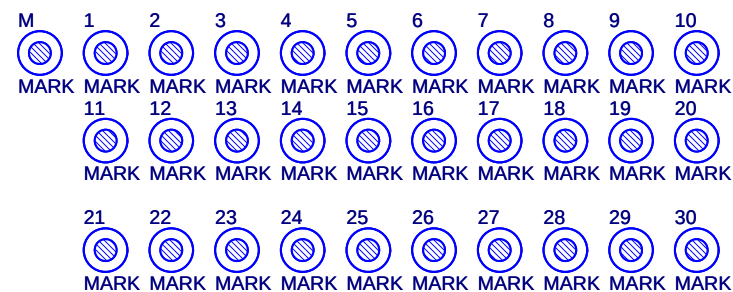
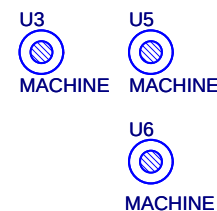
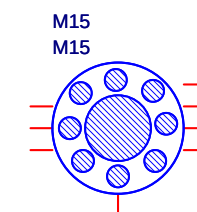
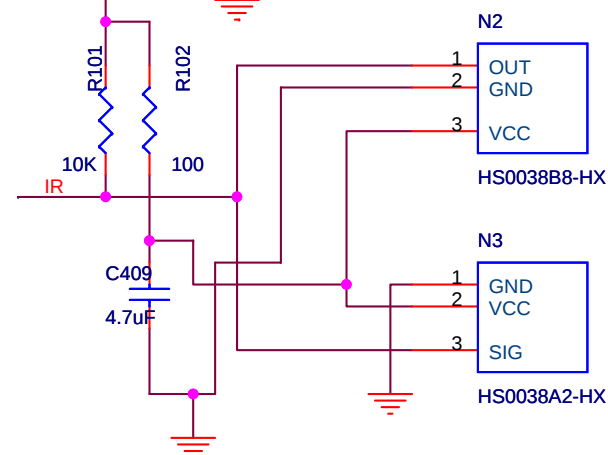
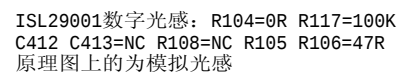
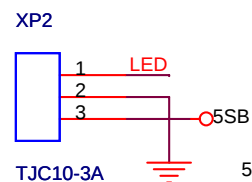
7.7 Troubleshooting for Video/S-Video input



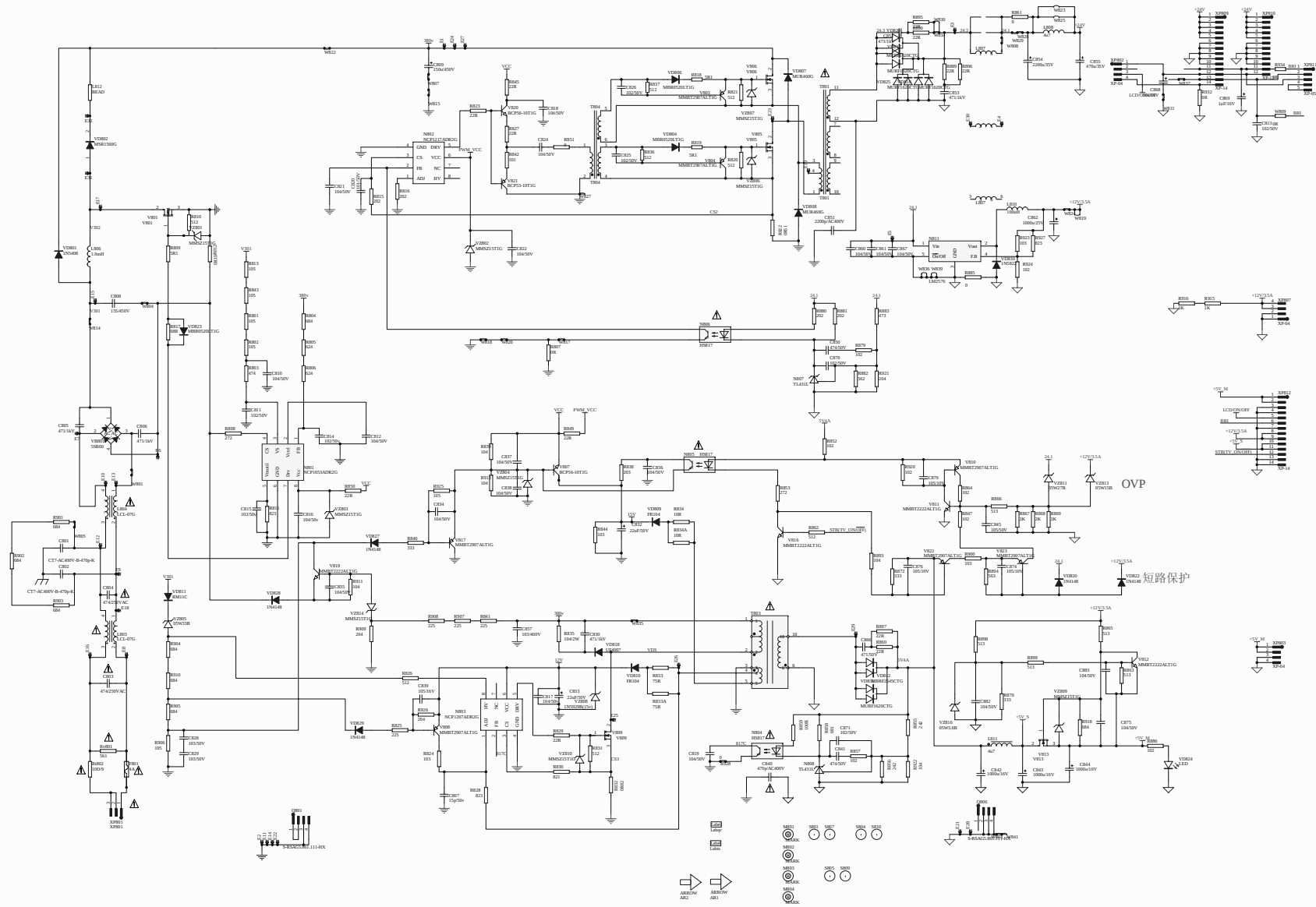
Replace main board

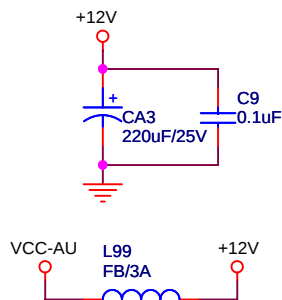
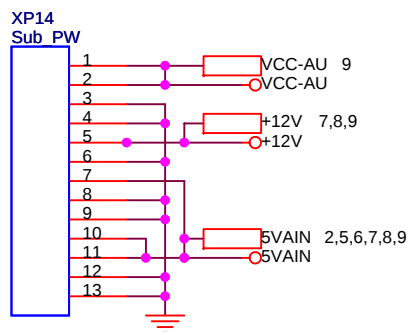
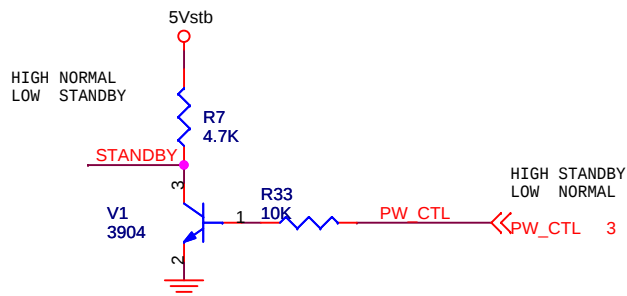
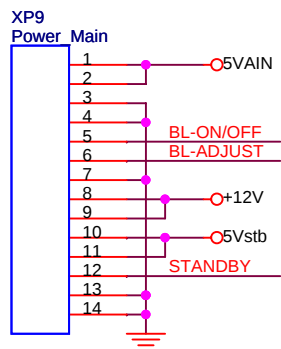
8. Explode View

9. Schematic circuit diagram

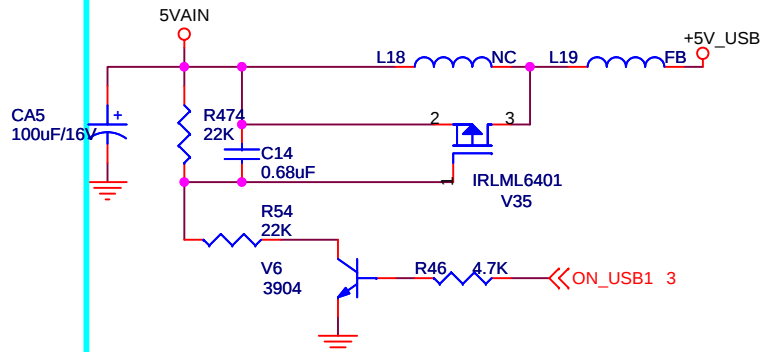


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Date: Tuesday, February 03, 2009	Sheet 1 of 1		

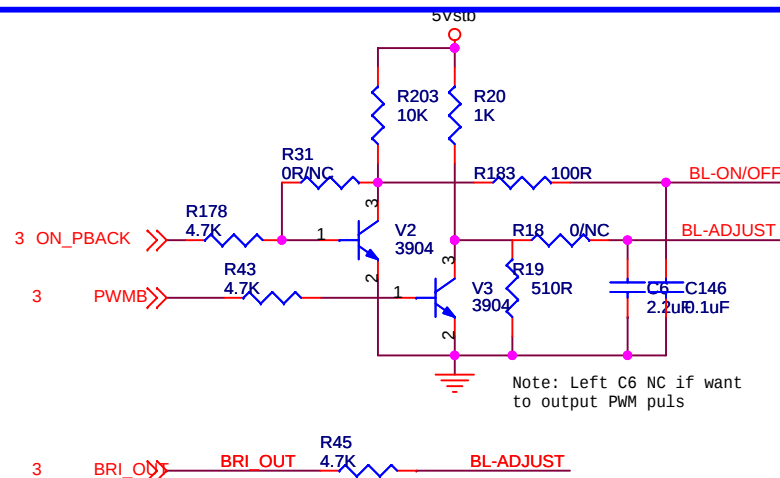




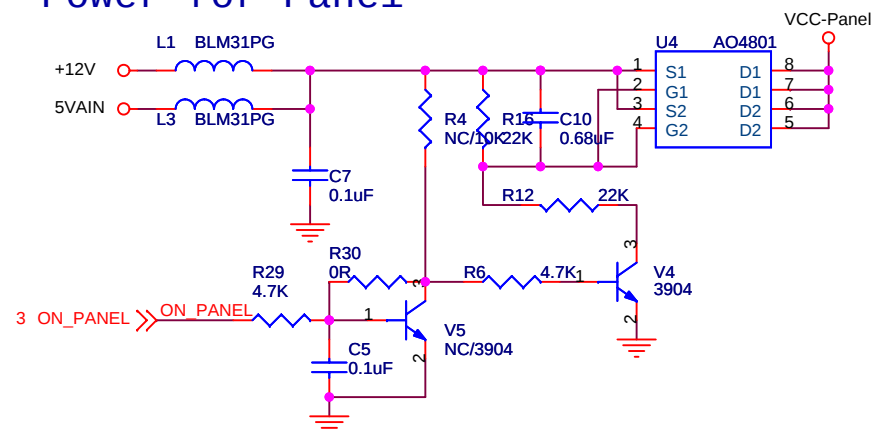
USB Power



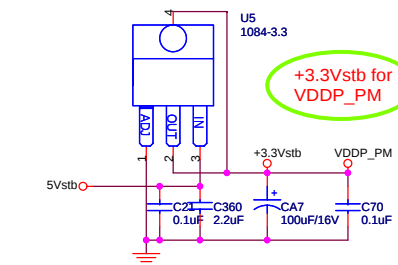
T0 Inverter Board



Power for Panel

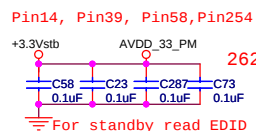


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A4	MST6M16	<RevC>
Date:	Friday, April 10, 2009	Sheet 1 of 10

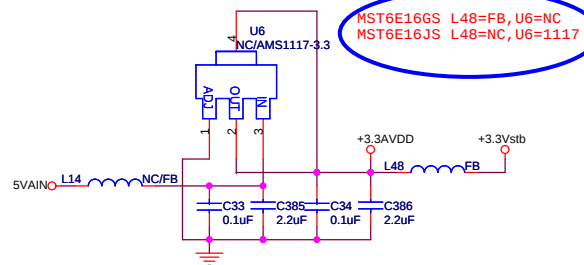
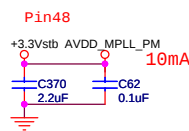


+3.3Vstb for VDDP_PM

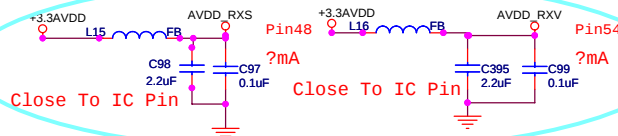
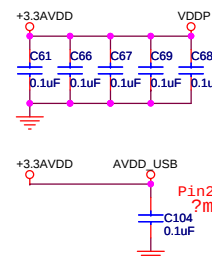
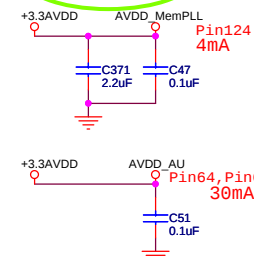
+3.3Vstb for AVDD_33



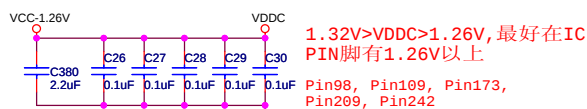
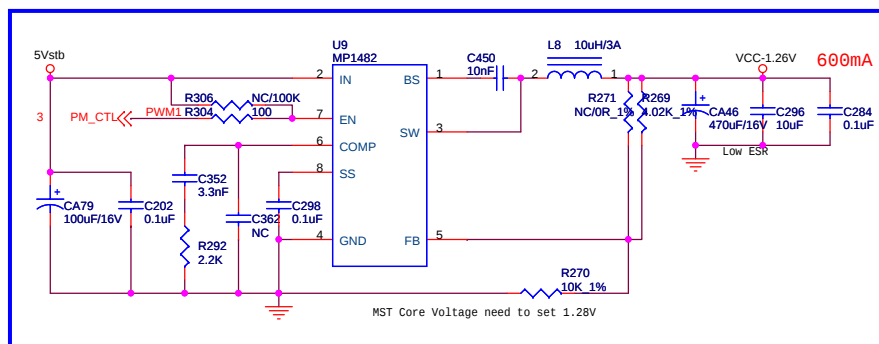
+3.3Vstb for VDD_MPLL



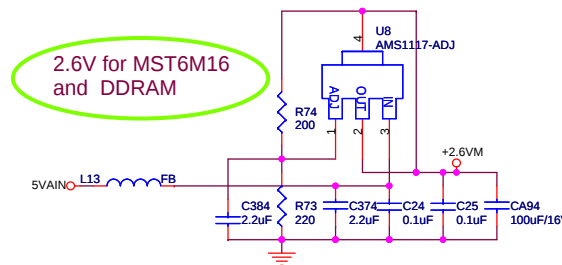
Pin96, Pin166, Pin186, Pin195, Pin202, Pin222, Pin236,



Vcc 1.26V for MST6M16 Core power



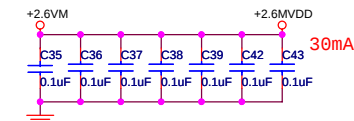
注意: L7电流要大, 直流电阻要小, 保证VDDC到MST6M19GL的电压在1.26V



FOR use DDR, +2.6VM must be 2.6V
FOR use SDRAM, +2.6VM must be 3.3V

+2.6V for MST6M16

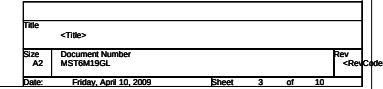
Pin111, Pin127, Pin132, Pin138, Pin143, Pin149, Pin154

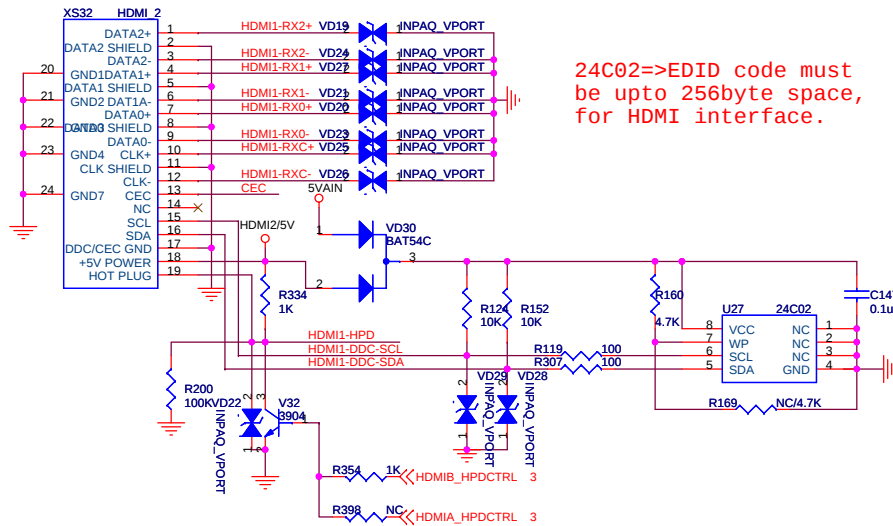
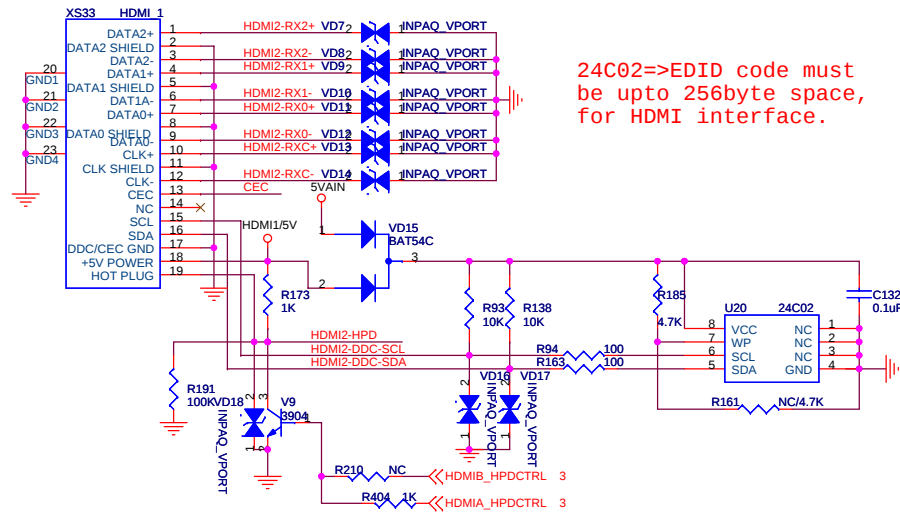


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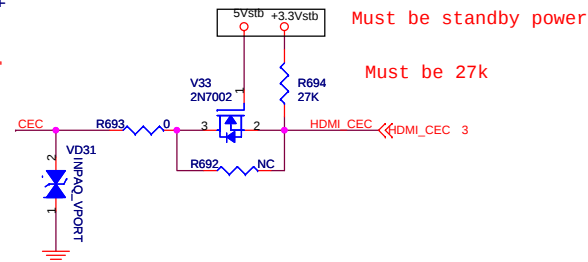
TEL:0755-26996895 FAX:0755-26996830

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Size	Document Number	Rev
A3	MST6M19GL	01A
Date:	Friday, April 10, 2009	Sheet 2 of 10

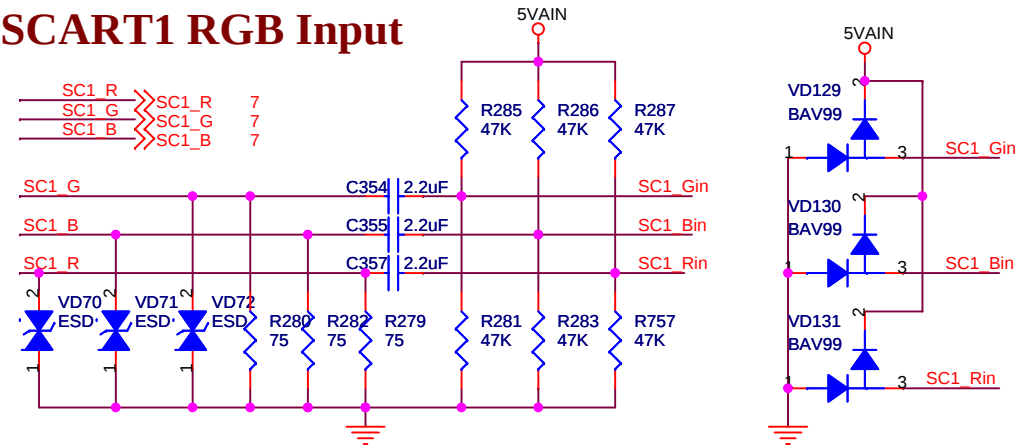




For CEC Leakage Protect



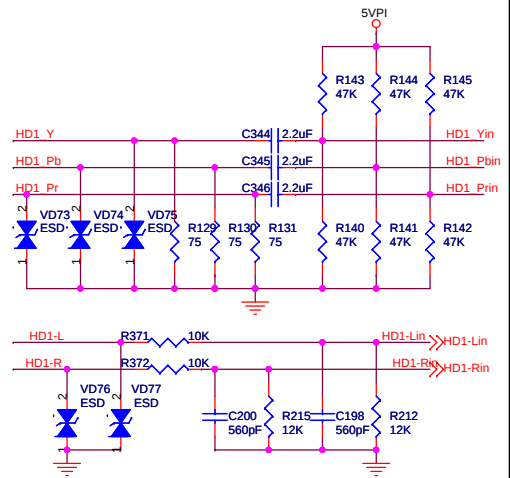
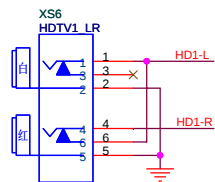
SCART1 RGB Input



SC1_Gin SC1_Gin 6

SC1_Bin SC1_Bin 6

SC1_Rin SC1_Rin 6



XS8
HDTV2

左
綠

中
藍

右
紅

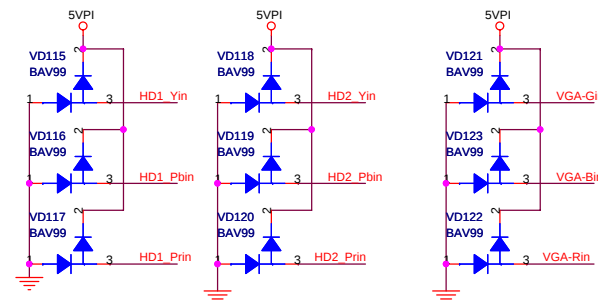
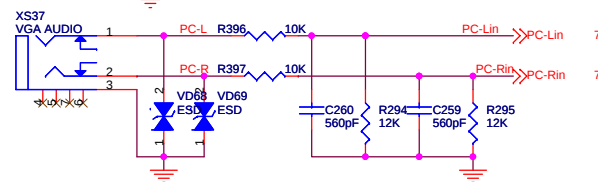
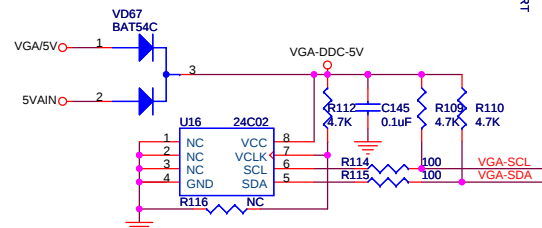
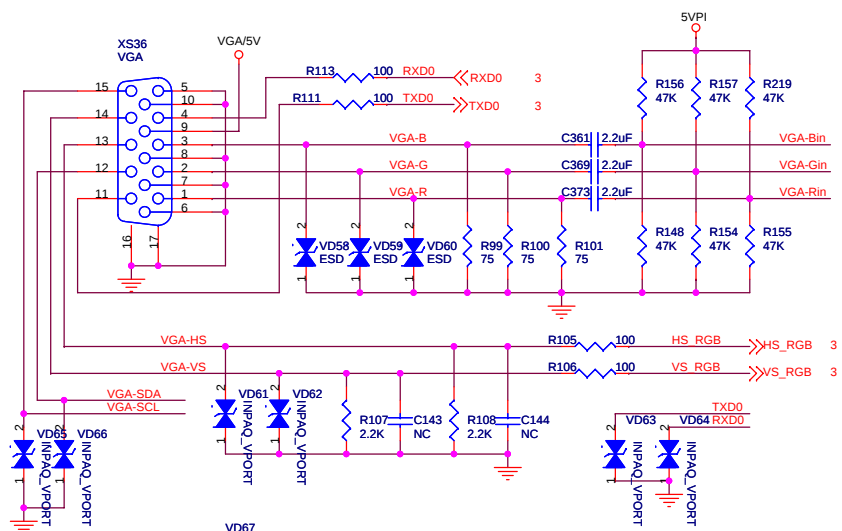
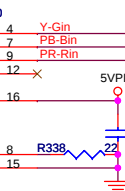
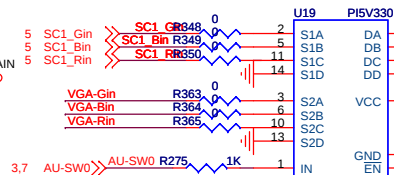
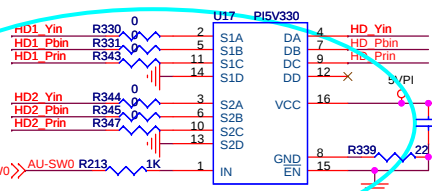
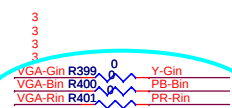
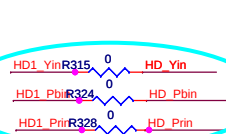
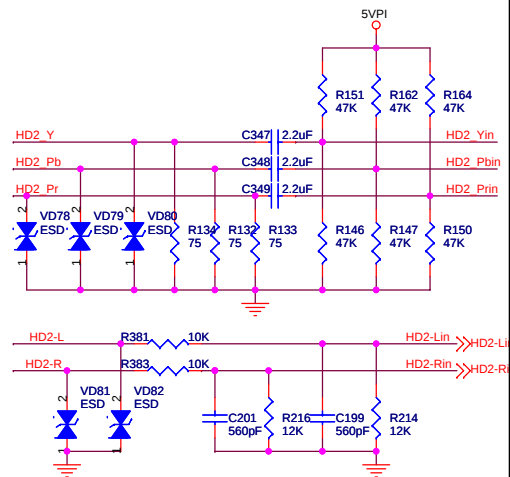
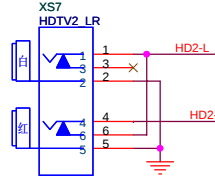
1 2 3 4 5 6 7 8 9 10

HD2_Y

HD2_Pb

HD2_Pr

Ground



AU-SW1	AU-SW0	Output
0	0	HD1_YpBp
0	1	HD2_YpBp
1	0	SC1
1	1	VGA



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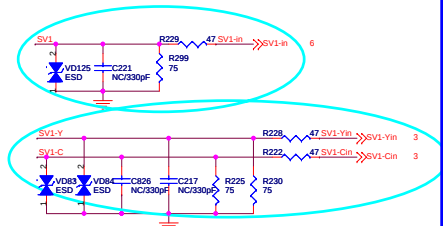
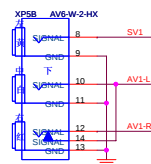
TEL:0755-26996895 FAX:0755-26996830

Title	Y,Pb,Pr Input
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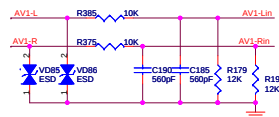
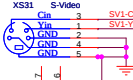
Size	Document Number	Rev
A3	MST6M16	01A

Date: Friday, April 10, 2009 Sheet 6 of 10

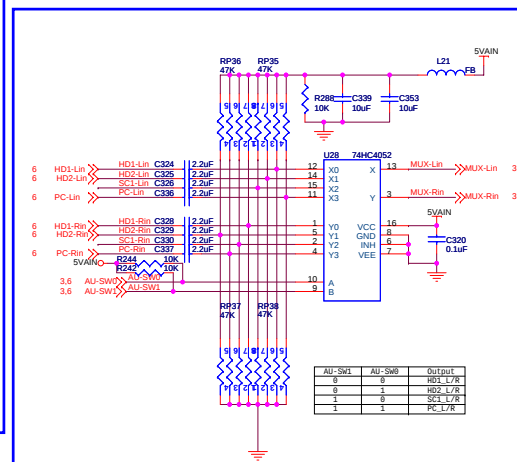
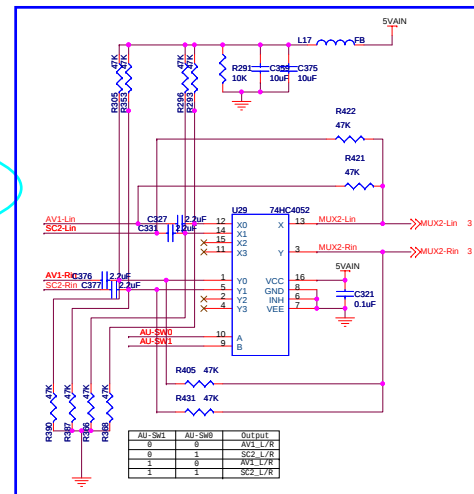
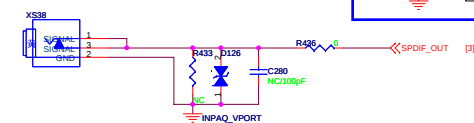
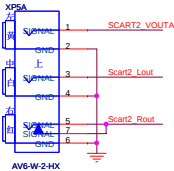
AV1 Input



S-Video1 Input



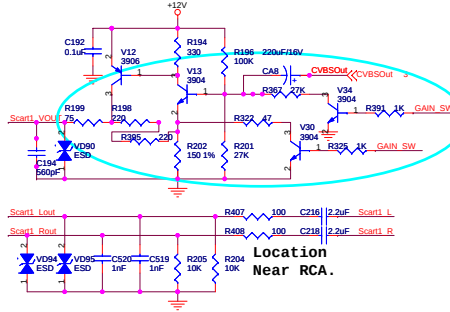
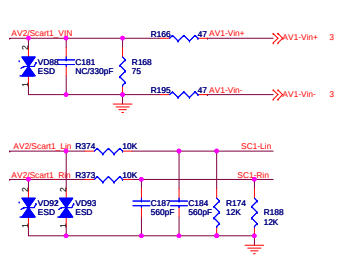
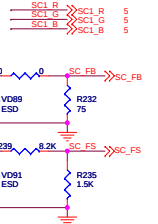
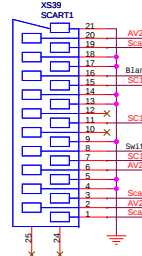
AV Output



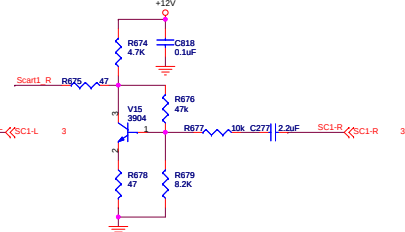
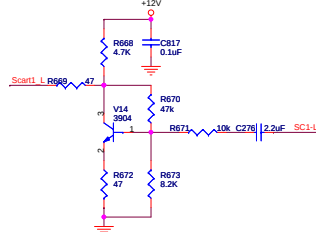
AU-SW1	AU-SW8	Output
0	0	AV1-L/R
0	1	SC2-L/R
1	0	AV1-L/R
1	1	SC2-L/R

AU-SW1	AU-SW8	Output
0	0	HD1-L/R
0	1	HD2-L/R
1	0	SC1-L/R
1	1	PC-L/R

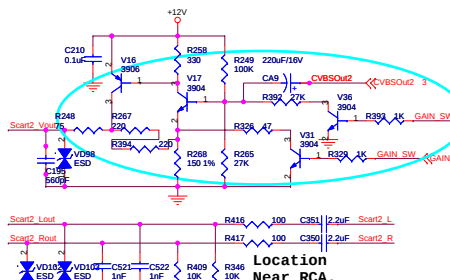
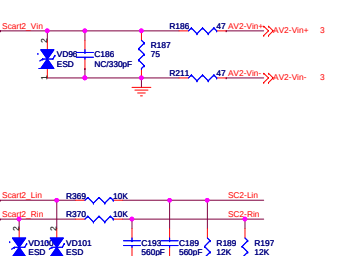
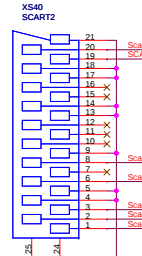
SCART1 Input



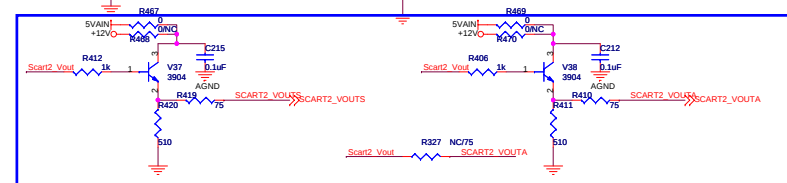
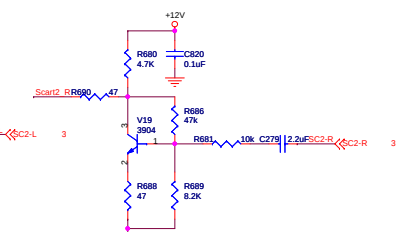
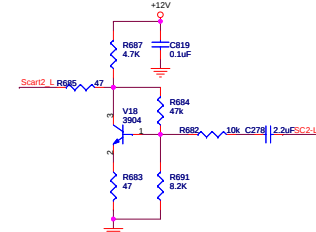
Location
Near RCA.



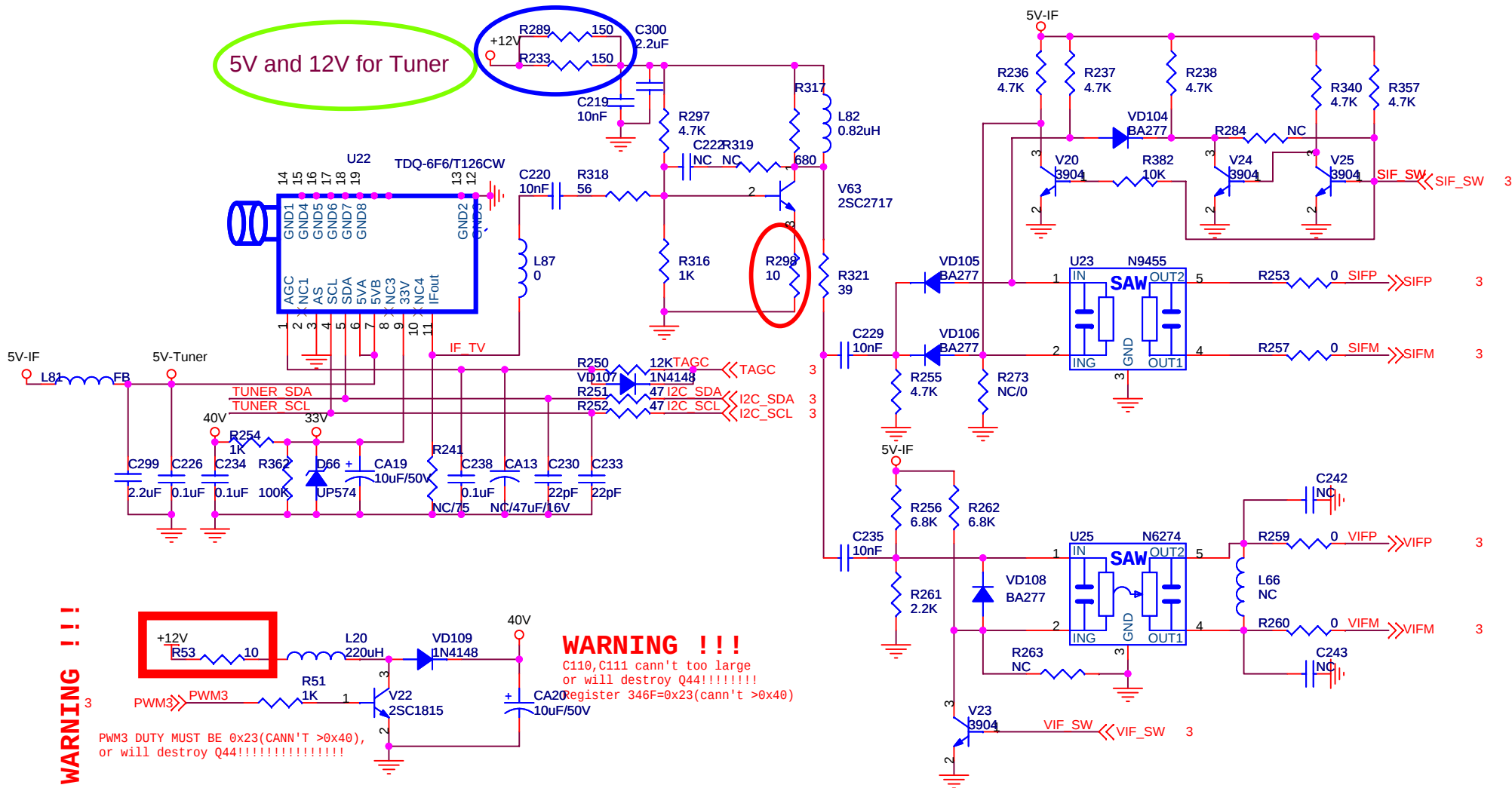
SCART2 Input

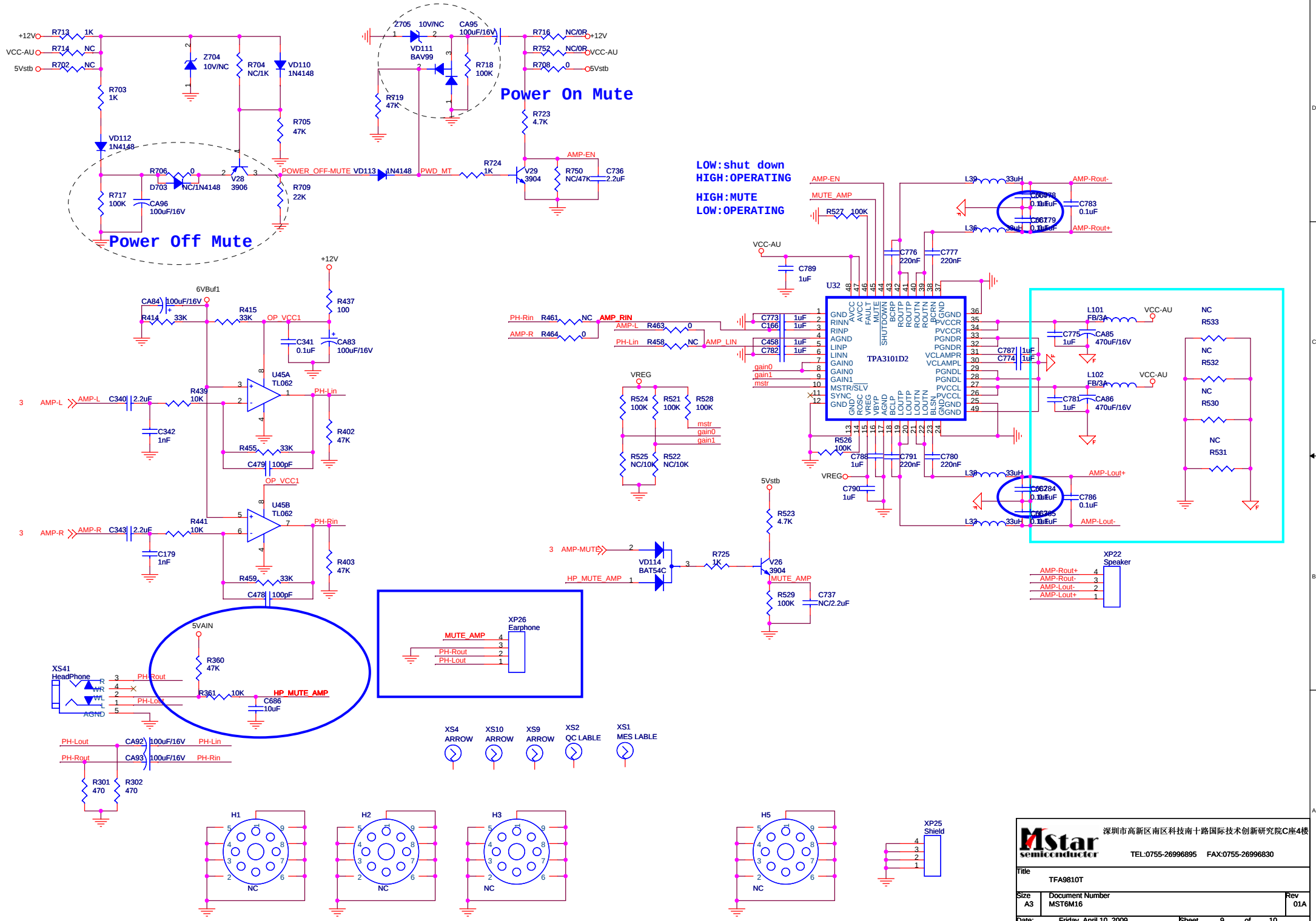


Location
Near RCA.



5V and 12V for Tuner





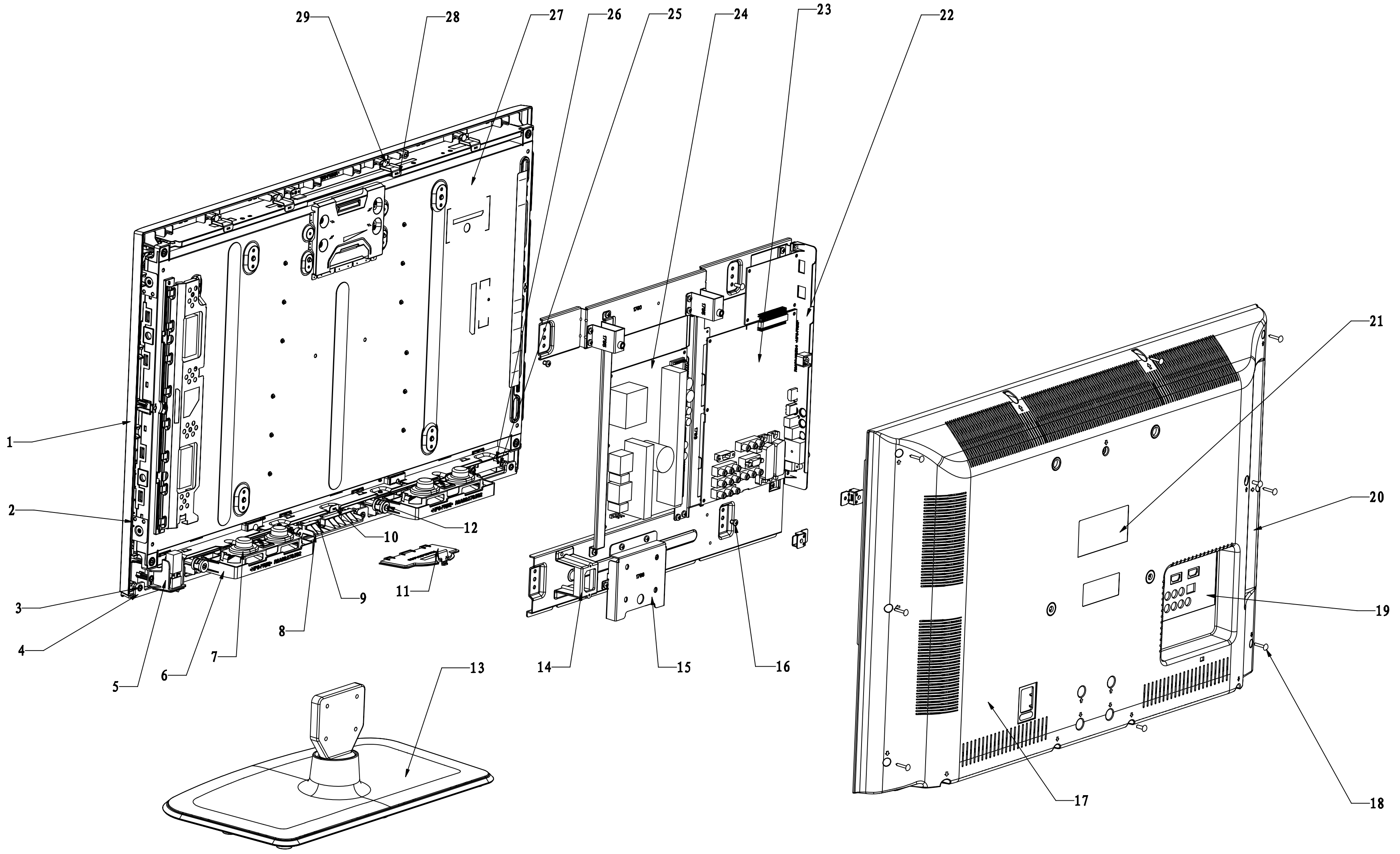


B



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A																						
B																						
C																						
D																						
E																						
F																						
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H																						
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M																						
N																						
O																						
旧底图总号																						
底图总号																						
签 名																						
格式(1)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

29	SCREW	7	SJ2824-87 ST4X10F镀锌银白	
28	BRACKET	4	RSAG8. 038. 1845	
27	LCD PANEL	1	LTA320AP02\JK	
26	LENS LED	1	RSAG8. 640. 077	
25	IR BOARD UNIT	1	RSAG2. 908. 1566-3	
24	MAIN BOARD UNIT	1	RSAG2.908.1525-1	
23	POWER BOARD UNIT	1	RSAG2.908.1285	
22	TERMINAL BRACKET	1	RSAG8. 081. 516	
21	RATING LABEL	1		
20	SCUTCHEON	1	RSAG8.804.3456	
19	SCUTCHEON	1	RSAG8.804.3455	
18	SCREW	8	SJ2824-87 ST4X20C黑色	
17	BACK COVER	1	RSAG8. 074. 700	
16	SCREW	10	GB/T 818-2000 M4X6镀锌银白	
15	BRACKET UNIT	1	RSAG4. 114. 099	
14	BRACKET	1	RSAG8. 078. 514	
13	BASE UNIT	1	WG6. 121. 082	
12	SCREW	4	SJ2838-87 ST4X12F. II镀锌银白	
11	COVER BOARD	1	RSAG8. 634. 090	
10	BRACKET	1	RSAG8. 038. 1493	
9	RSAG2.908.1534-2	1	RSAG2. 908. 1534-2	
8	BRACKET	1	RSAG8. 078. 593	
7	SPEAKER	2	YDT4215NE-10W8R-B	
6	BRACKET	1	RSAG8. 078. 592	
5	SWITCH BRACKET	1	RSAG8. 078. 591	
4	ornament bracket	1	RSAG8. 647. 312	
3	SCREW	16	SJ2825-87 ST3X12C	
2	KEY BOARD UNITS	1	RSAG2.908.1625-4	
1	FRONT CABINET	1	RSAG8. 074. 658	
NO.	NAME.	NO.	CODE.	
LCD32V88AM				



29	SCREW	7	SJ2824-87 ST4X10F镀锌银白	
28	BRACKET	4	RSAG8. 038. 1845	
27	LCD PANEL	1	LTA320AP02\JK	
26	LENS LED	1	RSAG8. 640. 077	
25	IR BOARD UNIT	1	RSAG2. 908. 1566-3	
24	MAIN BOARD UNIT	1	RSAG2.908.1525-1	
23	POWER BOARD UNIT	1	RSAG2.908.1285	
22	TERMINAL BRACKET	1	RSAG8. 081. 516	
21	RATING LABEL	1		
20	SCUTCHEON	1	RSAG8.804.3456	
19	SCUTCHEON	1	RSAG8.804.3455	
18	SCREW	8	SJ2824-87 ST4X20C黑色	
17	BACK COVER	1	RSAG8. 074. 700	
16	SCREW	10	GB/T 818-2000 M4X6镀锌银白	
15	BRACKET UNIT	1	RSAG4. 114. 099	
14	BRACKET	1	RSAG8. 078. 514	
13	BASE UNIT	1	WG6. 121. 082	
12	SCREW	4	SJ2838-87 ST4X12F. II镀锌银白	
11	COVER BOARD	1	RSAG8. 634. 090	
10	BRACKET	1	RSAG8. 038. 1493	
9	RSAG2.908.1534-2	1	RSAG2. 908. 1534-2	
8	BRACKET	1	RSAG8. 078. 593	
7	SPEAKER	2	YDT4215NE-10W8R-B	
6	BRACKET	1	RSAG8. 078. 592	
5	SWITCH BRACKET	1	RSAG8. 078. 591	
4	ornament bracket	1	RSAG8. 647. 312	
3	SCREW	16	SJ2825-87 ST3X12C	
2	KEY BOARD UNITS	1	RSAG2.908.1625-4	
1	FRONT CABINET	1	RSAG8. 074. 658	
NO.	NAME.	NO.	CODE.	
LCD32V88AM				