

Service Manual

LT2619SU/LT2621SU

Contents

Contents	- 2 -
Service Manual	- 3 -
1. Precautions and notices.....	- 3 -
1.1 WARNING	- 4 -
1.2 NOTES	- 7 -
2. Product Function Specifications.....	- 10 -
2.1 Product Function.....	- 10 -
2.2 Specifications.....	- 12 -
3. LCD Panel Spec.....	- 13 -
3.1 General Description	- 13 -
3.2 General Features	- 13 -
4. Chassis Layout and Overall Wiring Diagrams	- 14 -
4.1 Chassis Layout.....	- 14 -
4.2 Wires and Cables Overall Wiring Diagrams	- 15 -
5. Factory/Service OSD Menu and Adjustment.....	- 16 -
5.1 To enter the Factory OSD Menu	- 16 -
5.2 Factory OSD Menu.....	- 16 -
6. Software Upgrading.....	- 20 -
6.1 Get ready for upgrading.....	- 20 -
6.2 Upgrading with the ISP_TOOL4.0.9	- 29 -
7. Troubleshooting.....	- 34 -
7.1 Troubleshooting for Remote Control	- 34 -
7.2 Troubleshooting for Function Key.....	- 35 -
7.3 TV won't Power On.....	- 36 -
7.4 Troubleshooting for Audio.....	- 37 -
7.5 Troubleshooting for TV/VGA/HDMI input.....	- 38 -
7.6 Troubleshooting for YPbPr input.....	- 39 -
7.7 Troubleshooting for Video/S-Video/ SCART input	- 40 -
8. Explode View.....	- 41 -
9. Schematic circuit diagram	- 41 -

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.

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.

1.1 WARNING

1.1.1

DANGERCAUTION CAUTION

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE GUIDE.

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.

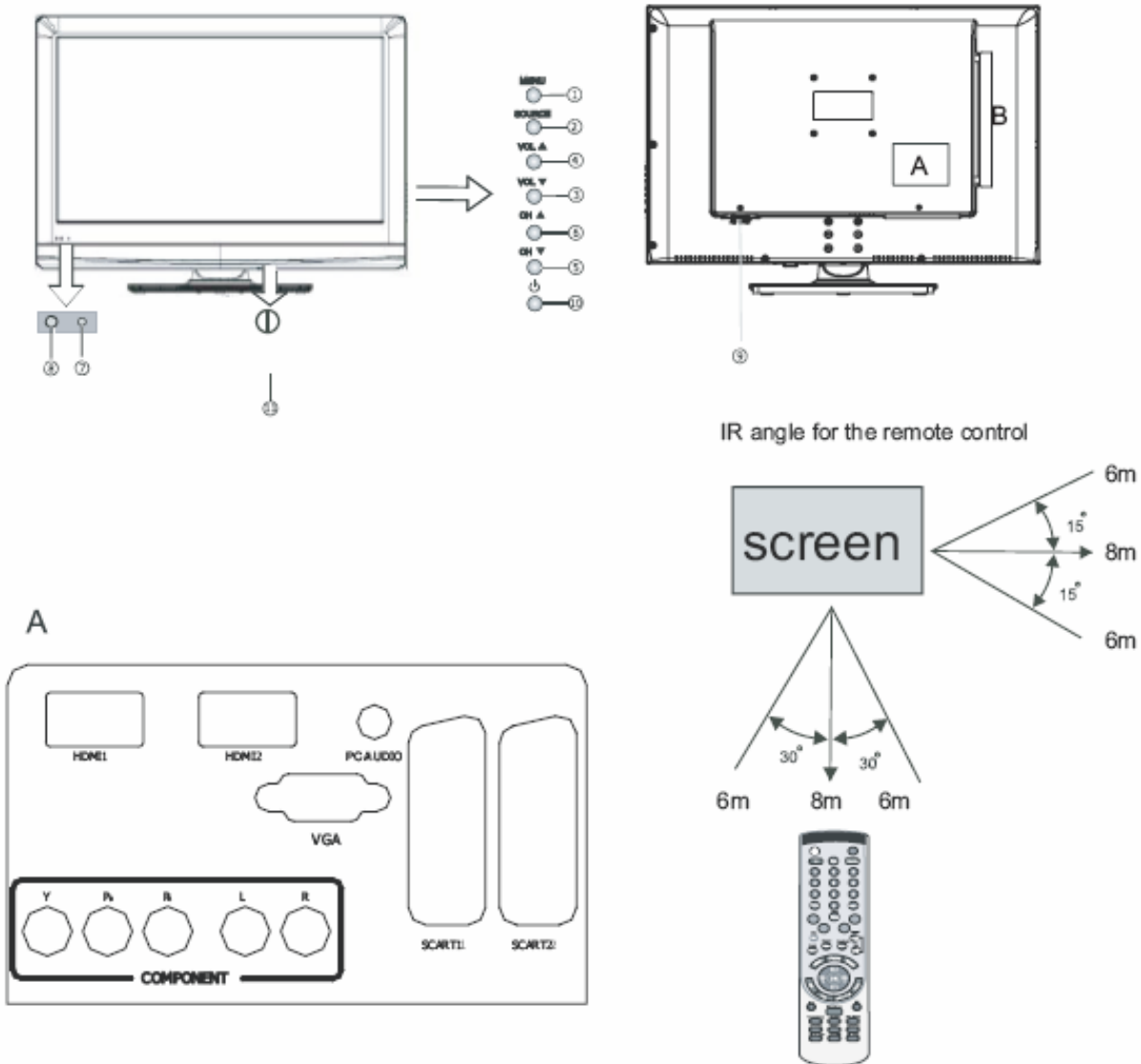


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance

(servicing) instructions in the literature accompanying the set.

2. Product Function Specifications

2.1 Product Function



LCD TV Service Manual

B



- | | | | |
|---|---|----|-----------------------|
| 1 | Menu button: Activate OSD menu | 7 | POWER indicator |
| 2 | Source button: Activate OSD source select | 8 | Remote sensing window |
| 3 | VOL ▼:Volume decrease/Left button | 9 | AC Power |
| 4 | VOL ▲:Volume increase/Right button | 10 | Power switch(standby) |
| 5 | CH ▼:Previous channel/Down button | 11 | Power switch(on/off) |
| 6 | CH ▲:Next channel/Up button | | |

Note: The above figures are for reference only, please refer to the actual units to determine the appearances.

2.2 Specifications

Native Resolution:	1366 x 768 Pixels
Colour System:	PAL/SECAM
Sound System:	B/G, D/K, I, L/L'
Tuner:	VHF/UHF: 48.25~863.25MHz
Antenna:	75Ω VHF/UHF input
Stereo:	NICAM/A2

VIDEO INPUT:

SCART1(Video and RGB)	Video:1 Vp-p, negative sync, 75 Ω input RGB: 0.7 Vp-p, 75Ω input
SCART2	Y/C in, CVBS out
Audio in	Stereo audio input for SCART
Video(CVBS)	1 Vp-p, 75Ω input
Audio in	RCA Stereo audio input
YPbPr (Component)	RCA, 0.7 Vp-p/75Ω input (480I/60Hz, 480P/60Hz, 576I/50Hz, 576P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)
Audio in	RCA Stereo audio input

PC INPUT:

VGA	15 Pin, Analog RGB signal, 0.7 Vp-p, 75 Ω input (VGA, SVGA, XGA)
Audio in	Ministik (3.5Ø)

MONITOR OUT

	26"	32"
Power Requirement	Refer to rating label	
Power Consumption	Refer to rating label	
Speaker Output	4W+4W	6 W+6W
Dimensions (L*H*D, mm)	762 x 587 x 288	902 x 770 x 215
Weight(net)	12kg	14kg

Allowable temperature of operation environment

.....0°C to 40°C

ACCESSORIES

Operating Instructions	1
Remote Control Unit	1
Power Lead	1 (only 32")
Dry Cell Battery	2

Note: Specifications and design are subject to possible modifications without notice due to improvements.

3. LCD Panel Spec

3.1 General Description

V260B1- L02 is a 25.5" TFT Liquid Crystal Display module with 8-CCFL

Backlight unit and RSDS interface.

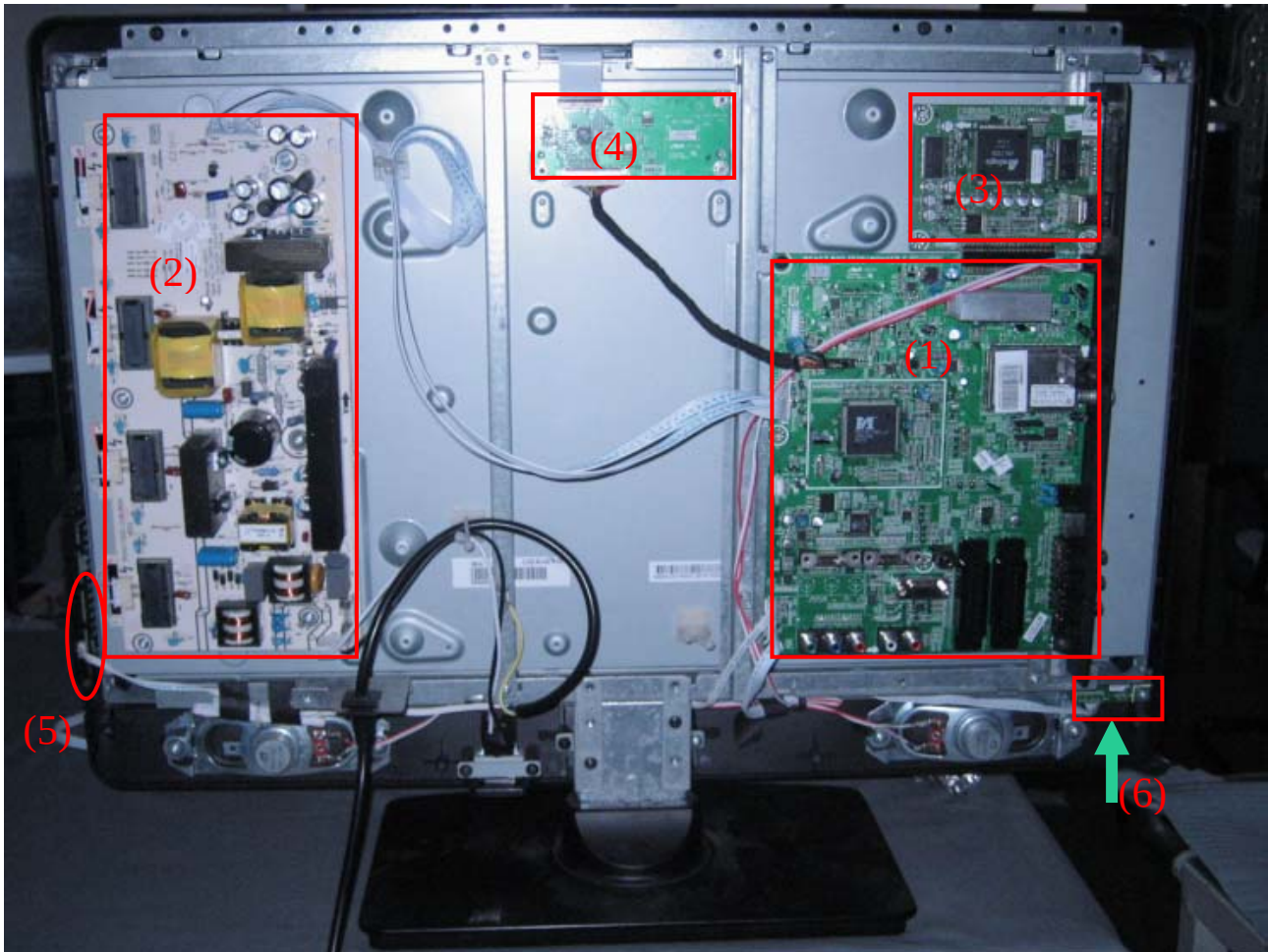
This module supports 1366 x 768 WXGA format and can display 16.2M colors (6-bits+FRC colors).

3.2 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)	-

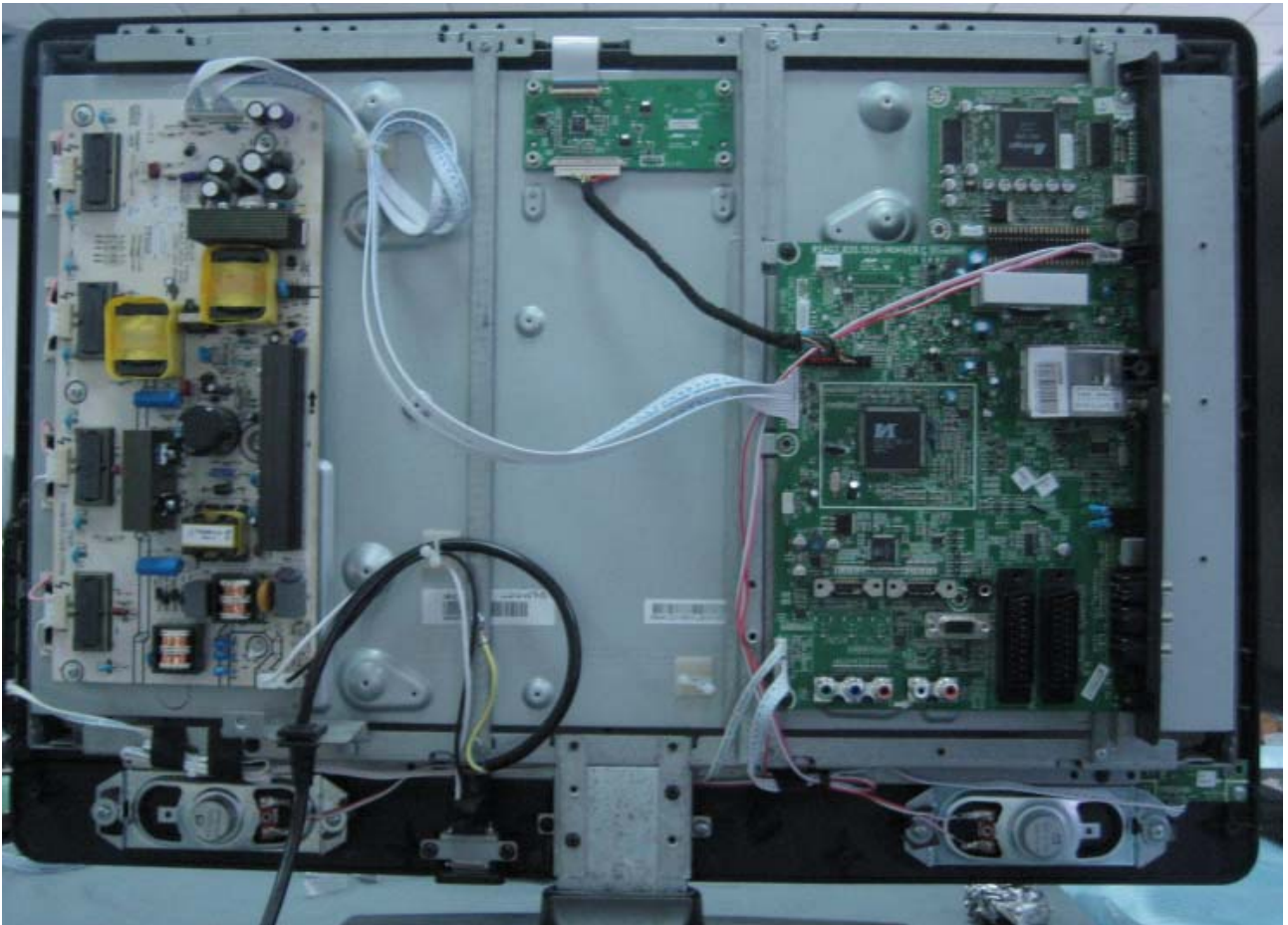
4. Chassis Layout and Overall Wiring Diagrams

4.1 Chassis Layout



No	Description	Part No	Type/Model	PCB/ Model
(1)	Main Board	117379	RSAG2.908.1395-1\ROH	RSAG7.820.1529\VERCROH
(2)	Power Board	115429	RSAG2.908.1251\ROH	RSAG7.820.1235\VER.C\ROH
(3)	RUSB Board	114583	RSAG2.908.1189\ROH	RSAG7.820.1272\VER.B\ROH
(4)	TCON Board	115643	RSAG2.908.1268TP\ROH	RSAG7.820.1330\VERC\ROH
(5)	Keypad PCA	117301	RSAG2.908.1088-1\ROH	RSAG7.820.1101\VER.B\ROH
(6)	IR&Led Board	116295	RSAG2.908.1260-2\ROH	RSAG7.820.1337\VER.B\ROH

4.2 Wires and Cables Overall Wiring Diagrams



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.

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
Auto Test
Auto Calibration
LOGO
OSD Language
Country
Option
Factory Init
Test Pattern
Version:

White Balance

R DRV	8
G DRV	10
B DRV	10
R CUT	136
G CUT	130
B CUT	121
BRIGHT_H	80
CONTRAST_H	80
BRIGHT_L	40
CONTRAST_L	40

Auto Calibration

Auto Color

Color Temp.	Standard
RED COLOR	136
GREEN COLOR	130
BLUE COLOR	121

LOGO

NULL

HISENSE

WELCOME

EGYPT OFF

Option

SOURCE	TV
BRIGHT 0	10
BRIGHT 50	100
BRIGHT 100	150
CONTRAST 0	60
CONTRAST 50	100
CONTRAST 100	150
TOFAC	M
HDMI Cable	Standard
DQS PHASE	3

Factory Init

QingDao

HuangDao

Guiyang

shunde

Hungary

France

Australia

CLEAR PROTECTLY

CLEAR UNPROTECTLY

Turkey

Test Pattern

BLUE

Version

Version:

Panel Type:

V260B1- L02 (1366*768)

FLASH :

5.2.2、 Design Menu

Design Menu

Picture Mode

Sound Mode

Sound Settings

Power Save

PIP Option

EMI

MOVESHARPNESS

LipSync

LCD TV Service Manual

Picture Mode

Standard	Brightness	50
	Contrast	50
	Colour	50
Bright	Brightness	60
	Contrast	60
	Colour	55
Soft	Brightness	45
	Contrast	45
	Colour	45

Sound Mode

Standard	120Hz	12
	500Hz	10
	1.5KHz	11
	5KHz	8
	10KHz	15
Music	120Hz	19
	500Hz	11
	1.5KHz	12
	5KHz	14
	10KHz	20
Speech	120Hz	4
	500Hz	10
	1.5KHz	12
	5KHz	7
	10KHz	5

Sound Settings

VOLUME 0	128
VOLUME 1	79
VOLUME 20	27
VOLUME 40	23
VOLUME 100	8
TVPRE SCALER	6
VOLUME SCALER	0

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

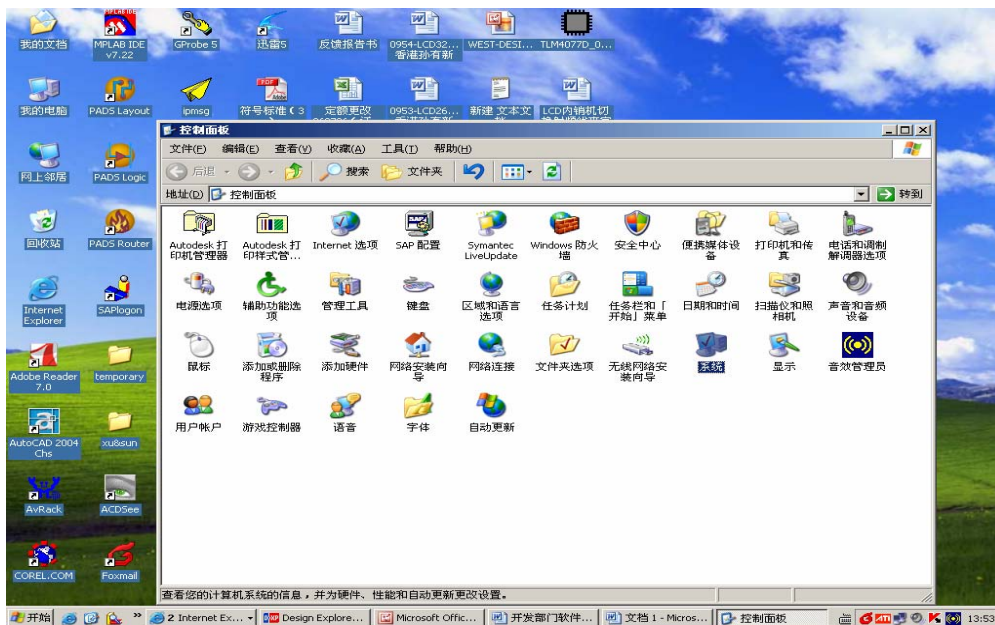
6.1 Get ready for upgrading

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”



LCD TV Service Manual

Click the “system” icon as the following

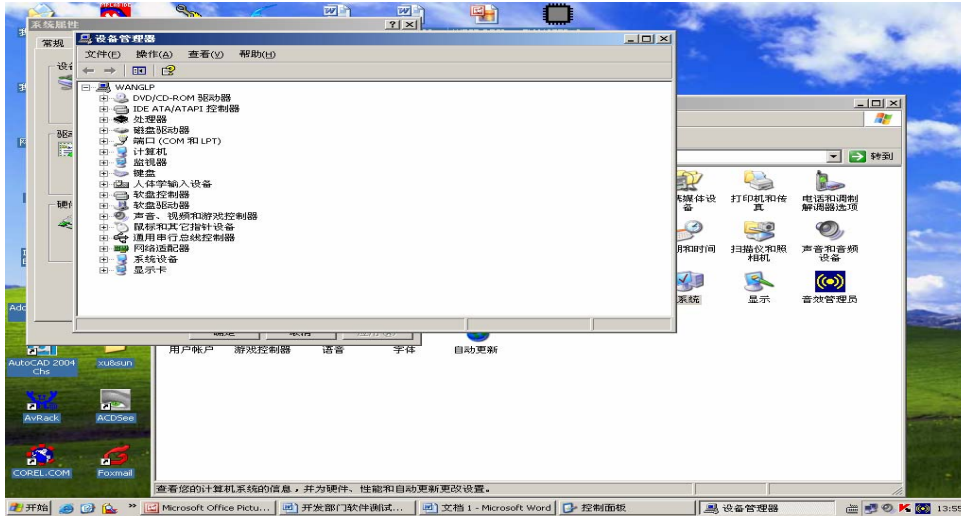


Choose the “hardware” option from the dialog window

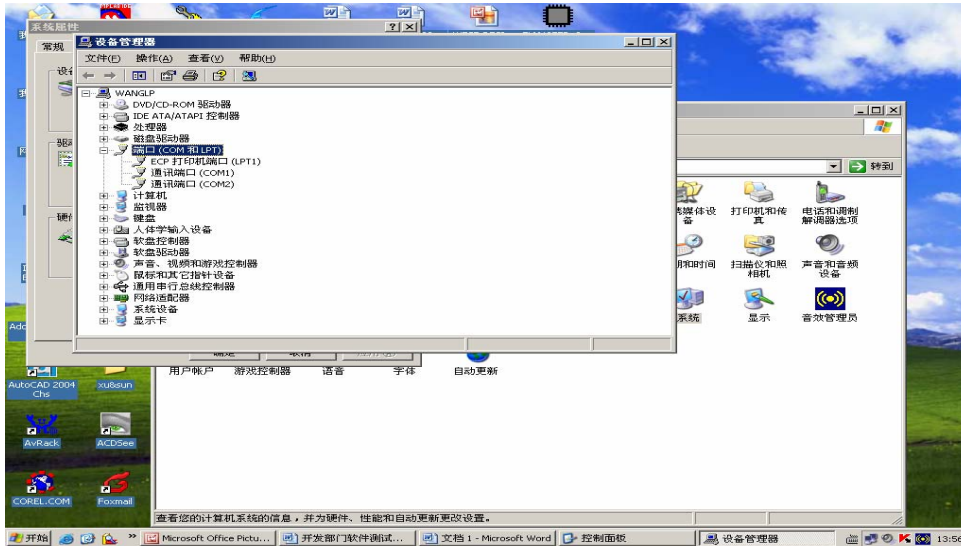


LCD TV Service Manual

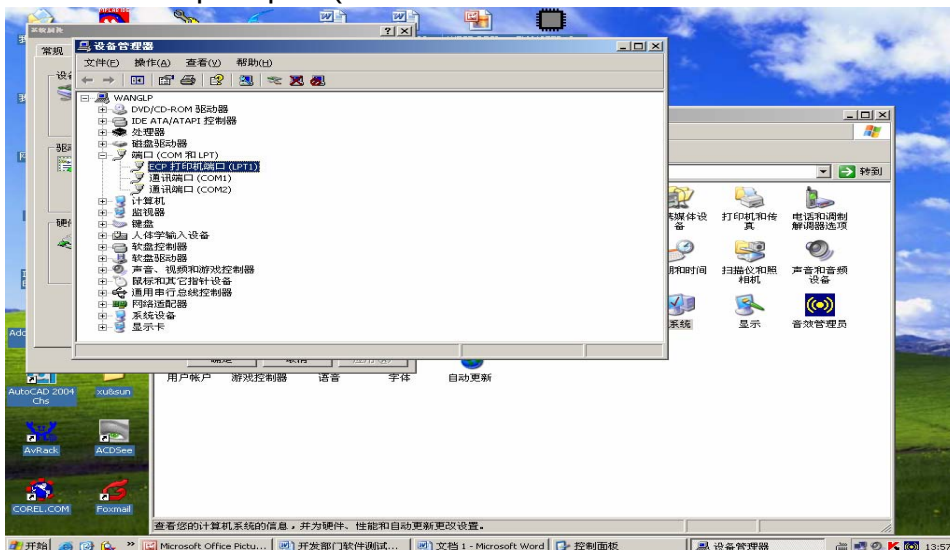
Click “device management” icon as the following



Choose the port (COM and LPT1)

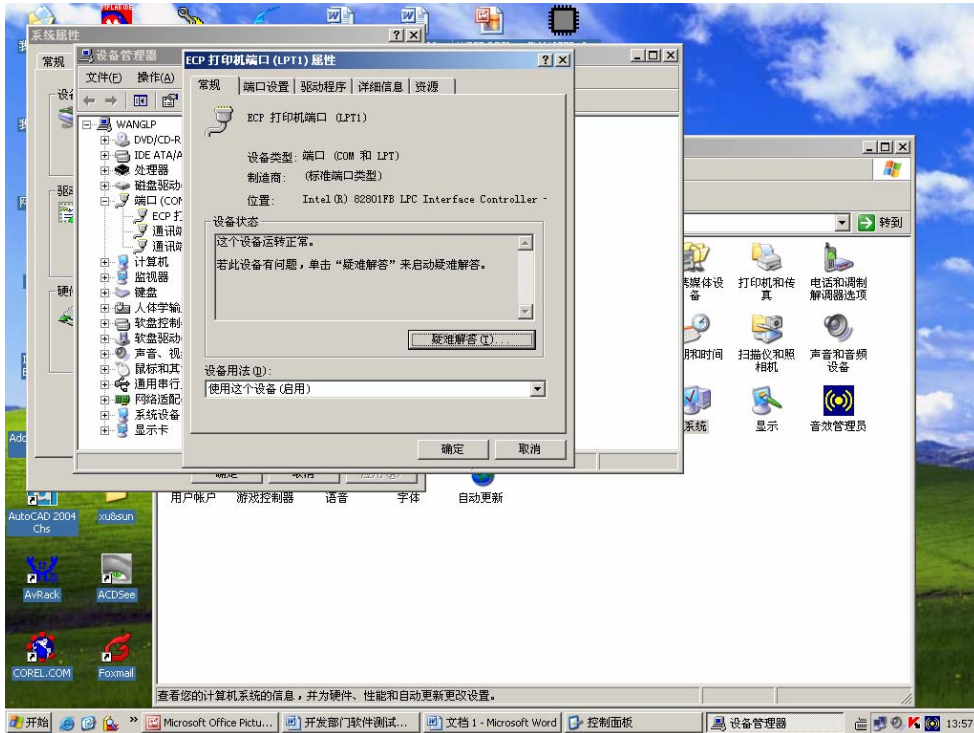


Choose the ECP print port (LPT1)

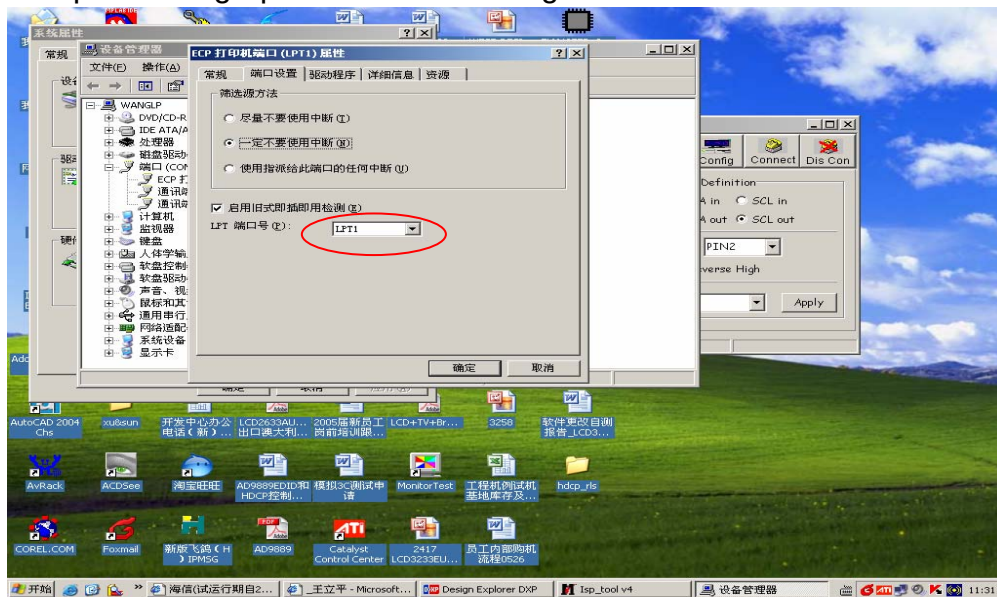


LCD TV Service Manual

Click the port of print (LPT1) as the following

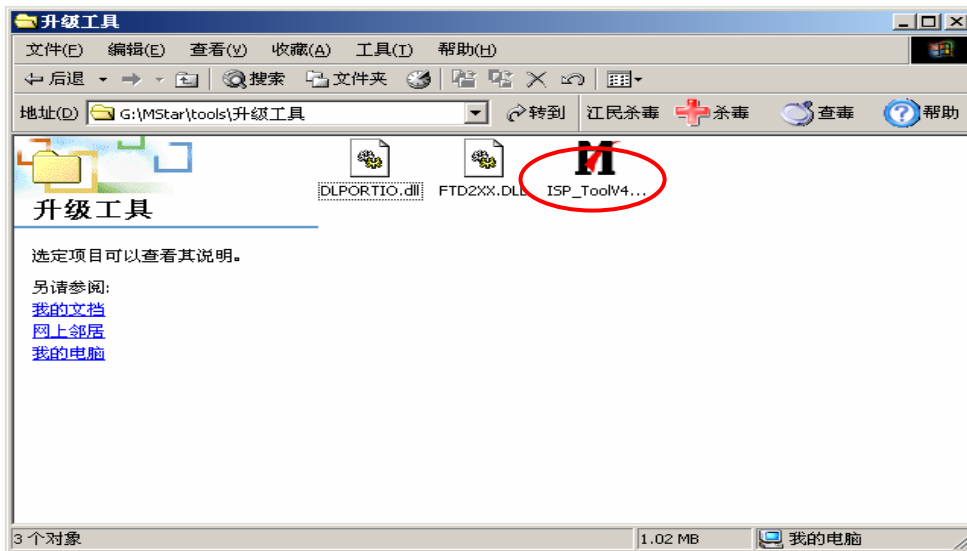


Choose “port setting” option as the following

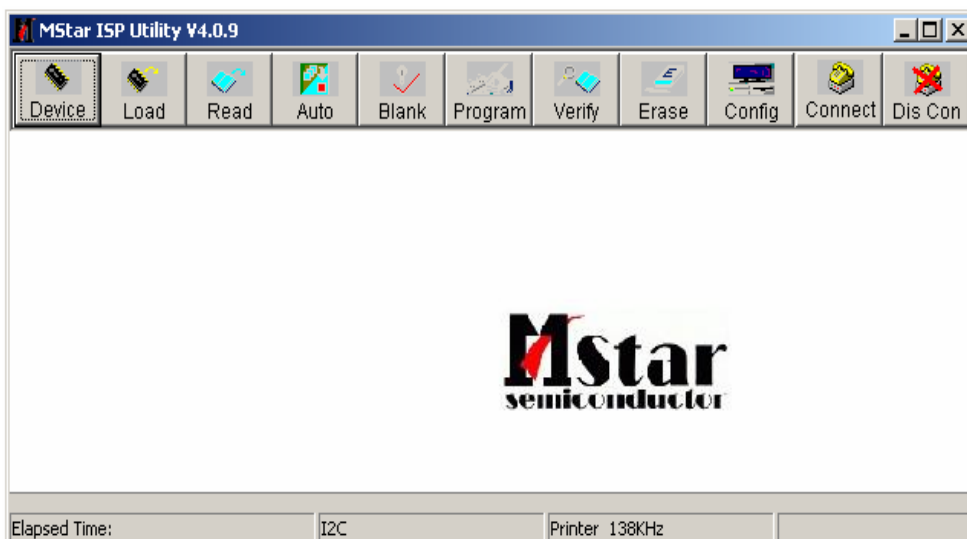


LCD TV Service Manual

- 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.

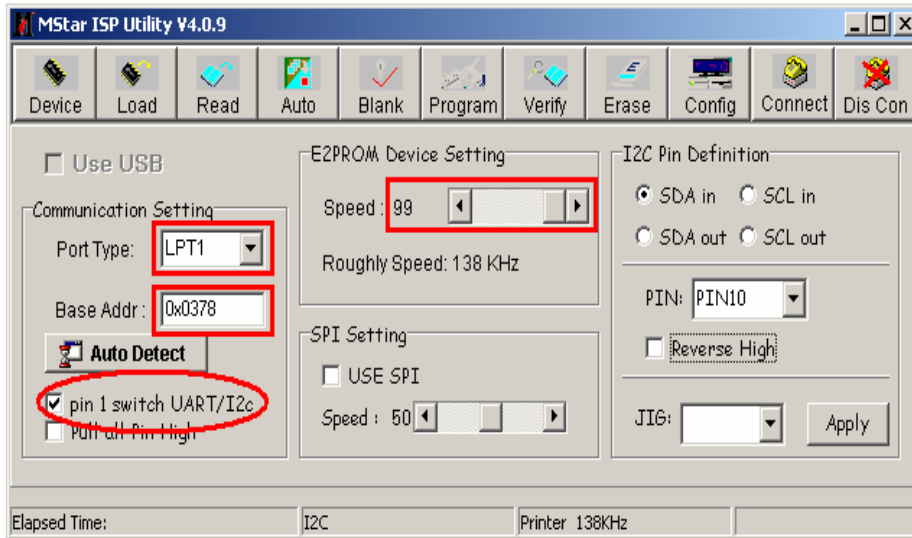
Port Type setting is LPT1

Base Addr setting is 0x378

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

Speed setting is 99

As following

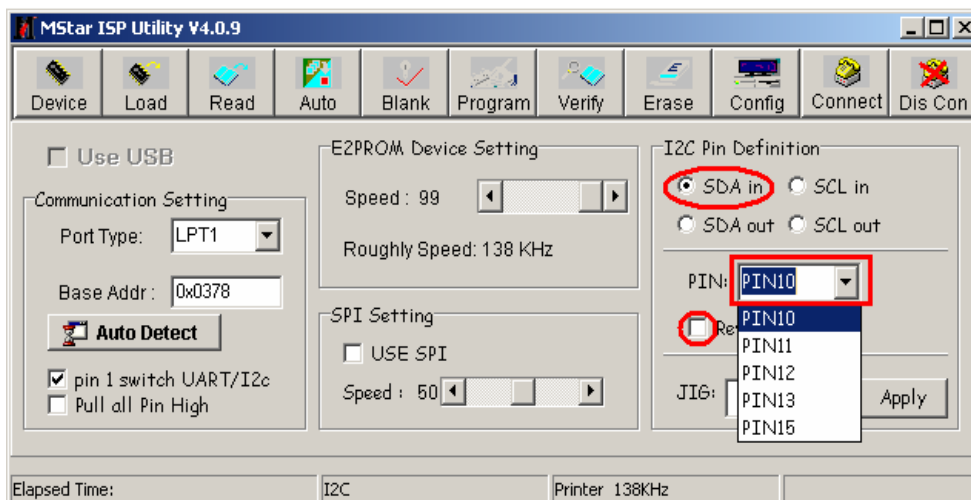


Choose “SDA in” and setting “PIN” is “PIN10”.

Notes:

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

As following



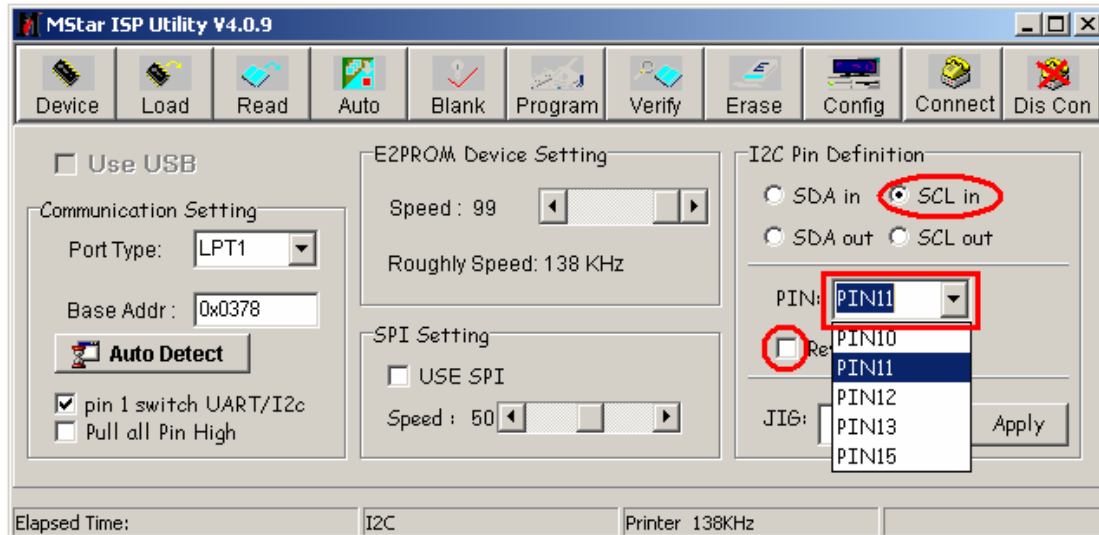
LCD TV Service Manual

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

Notes:

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

As following

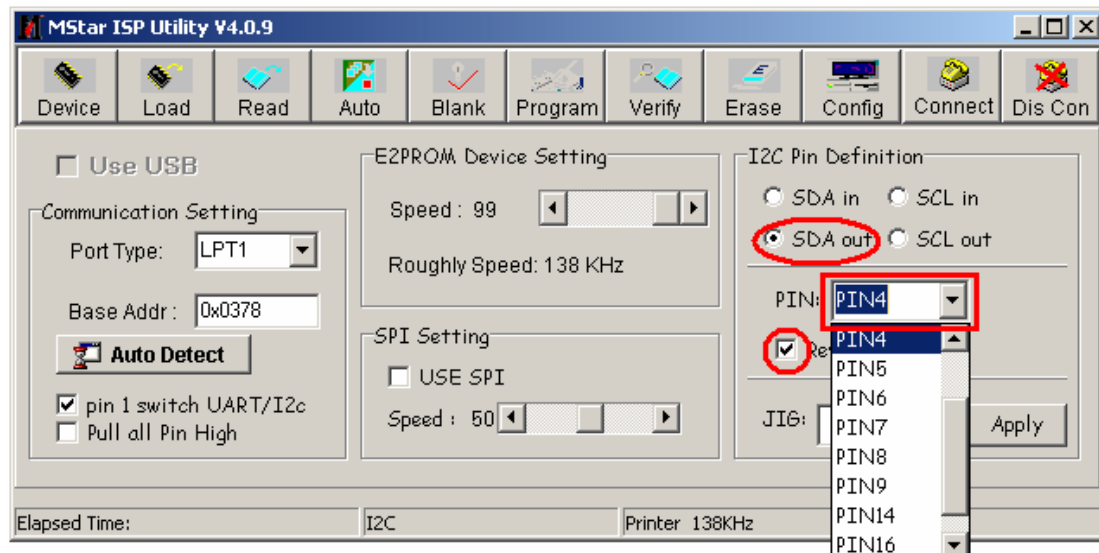


Choose “SDA out” and setting “PIN” is “PIN4”.

Notes:

Draw ☒ on the front of “Reverse High”.

As following.



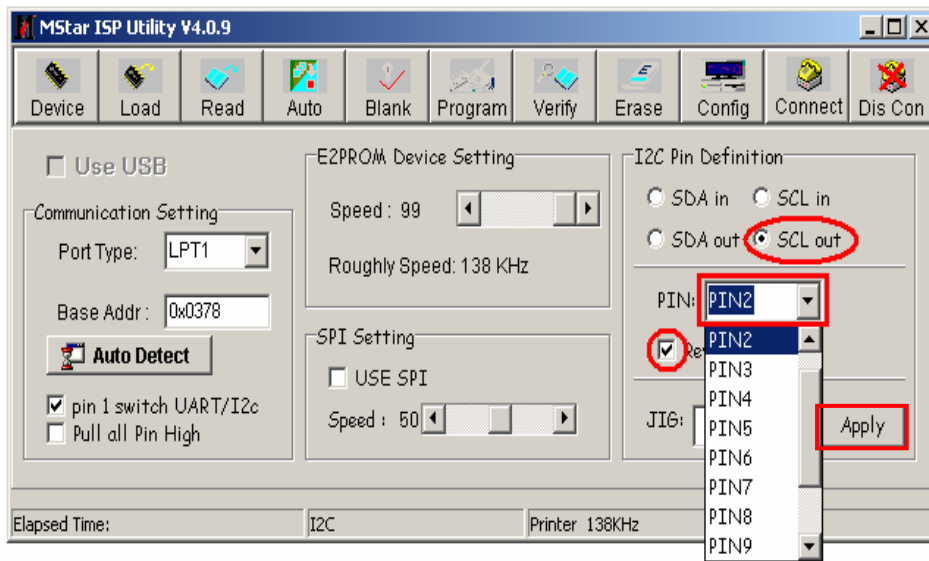
Choose “SCL out” and setting “PIN” is “PIN2”.

Notes:

Draw ☒ on the front of “Reverse High”.

As following

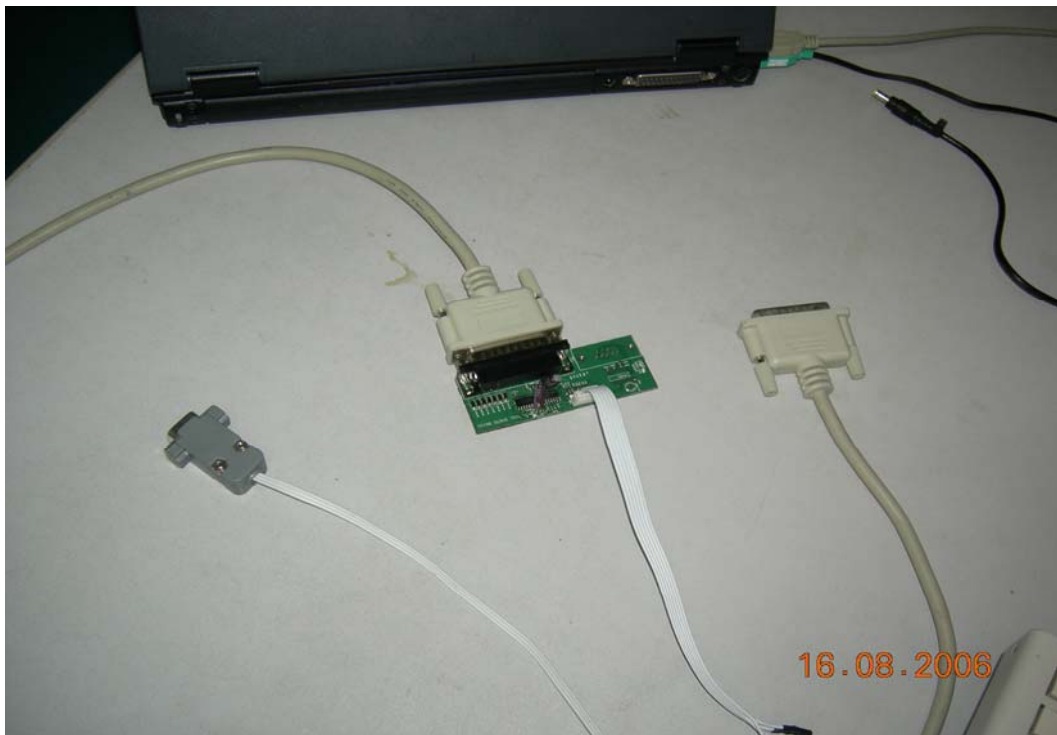
LCD TV Service Manual



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)



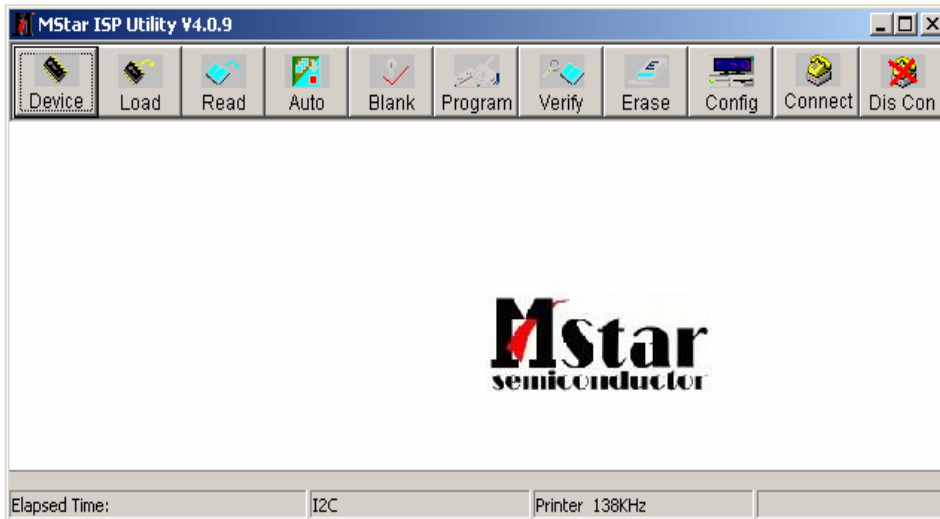
LCD TV Service Manual

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

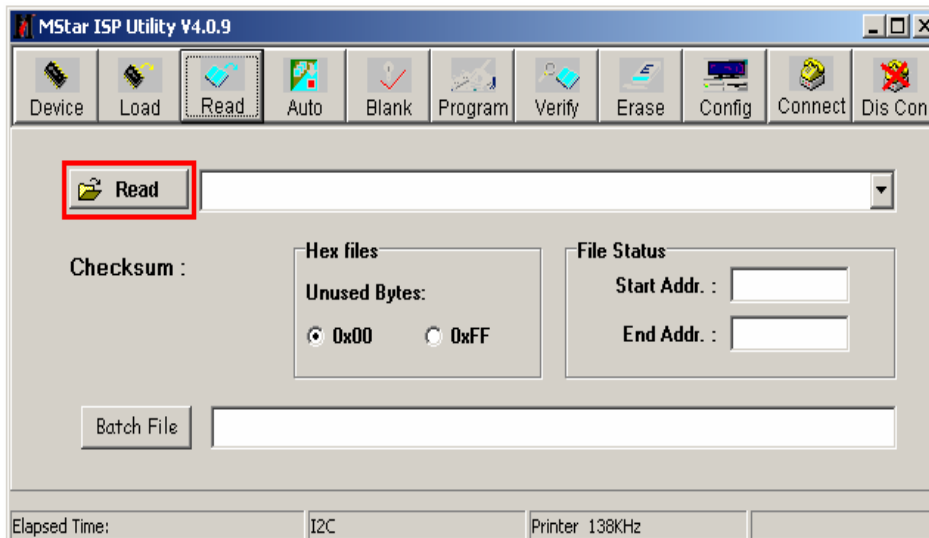


6.2 Upgrading with the ISP_TOOL4.0.9

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

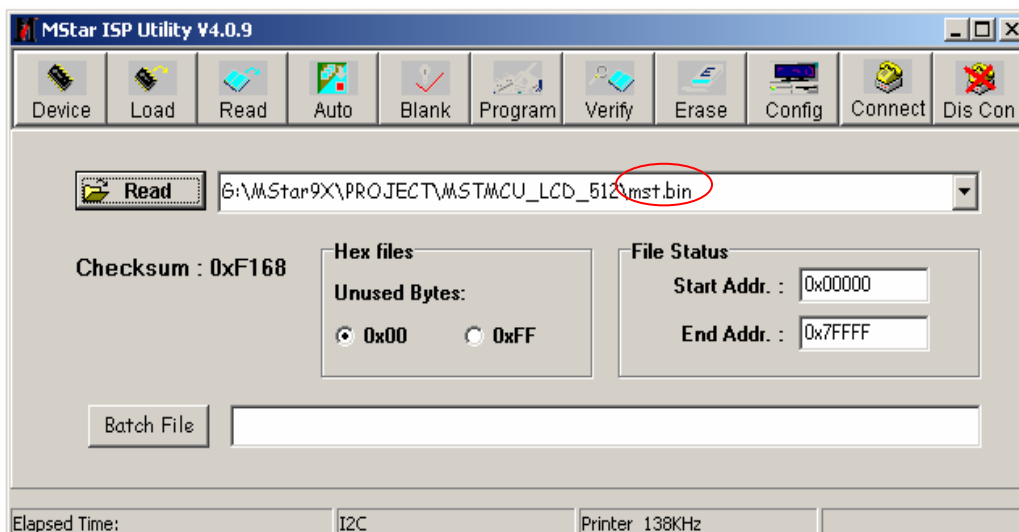
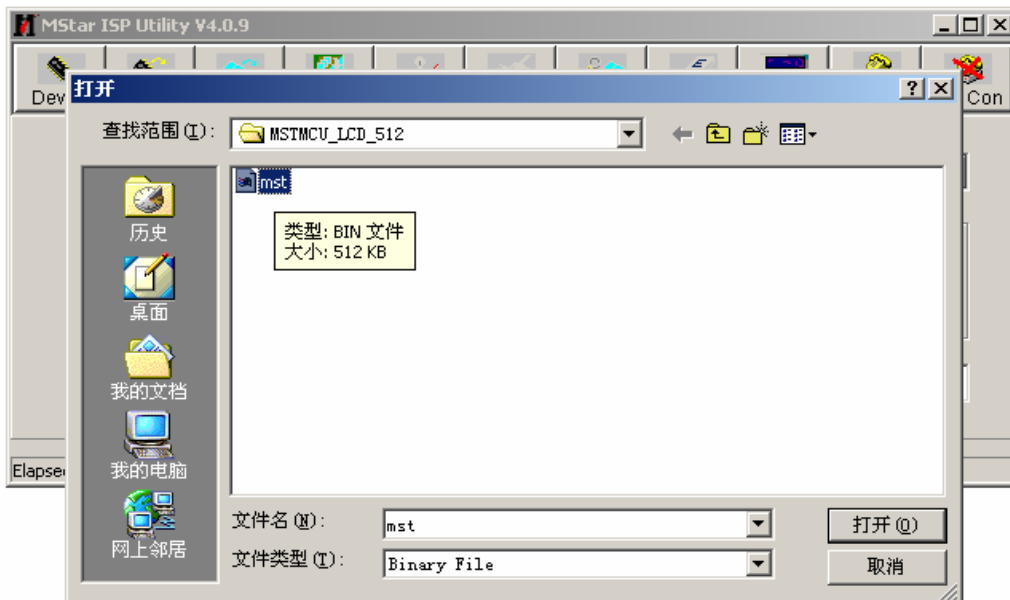
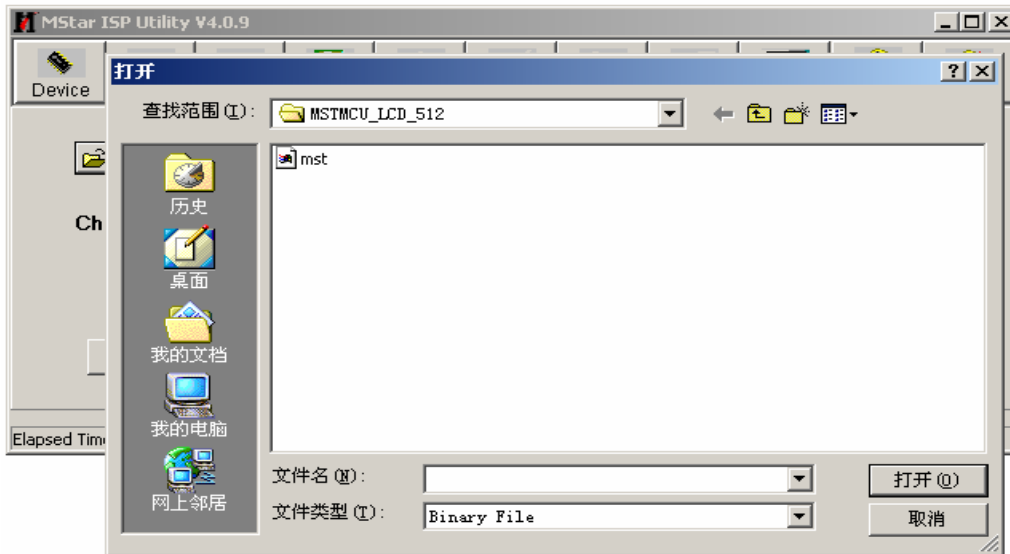


Click the "Read" button.



LCD TV Service Manual

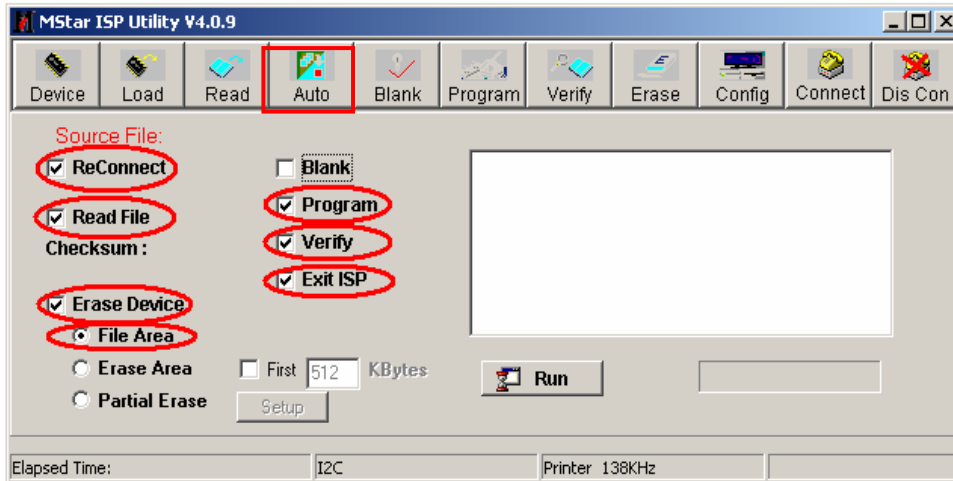
Choose the update file from the folder.



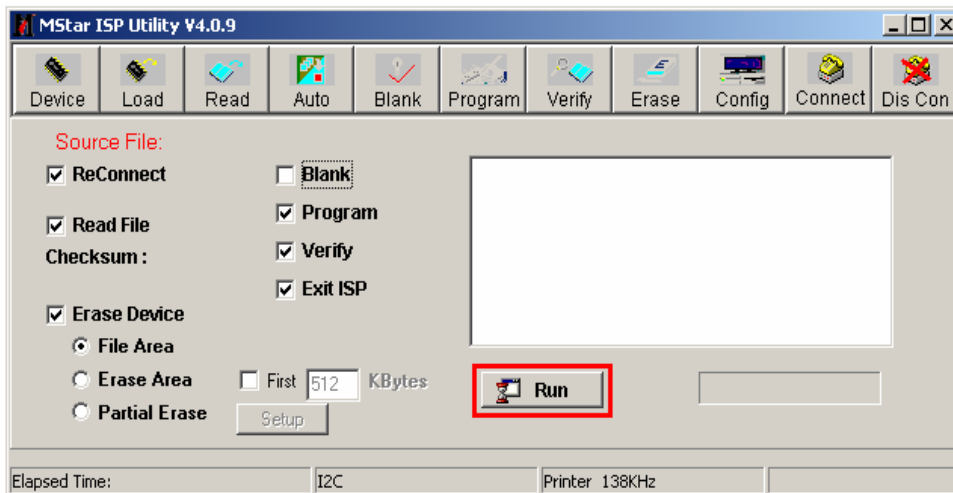
LCD TV Service Manual

The update file has been chosen successfully。

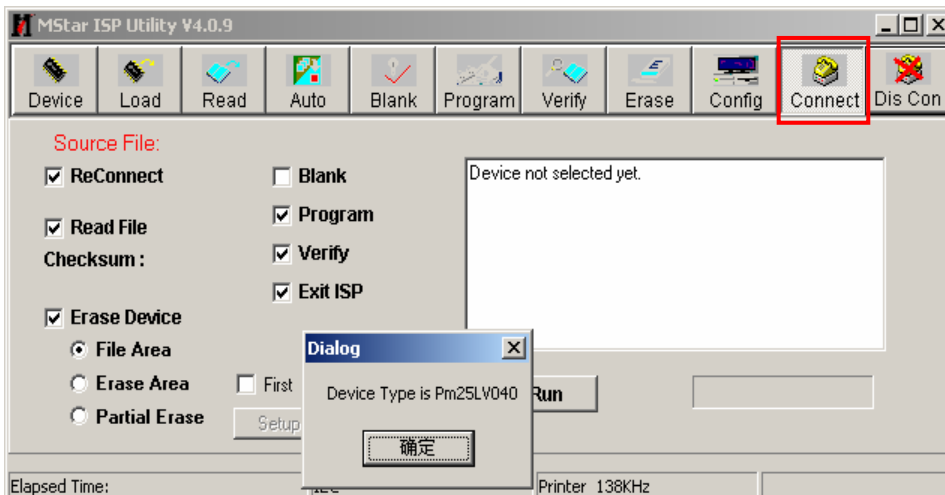
Click the“Auto”button and choose parameters as following。



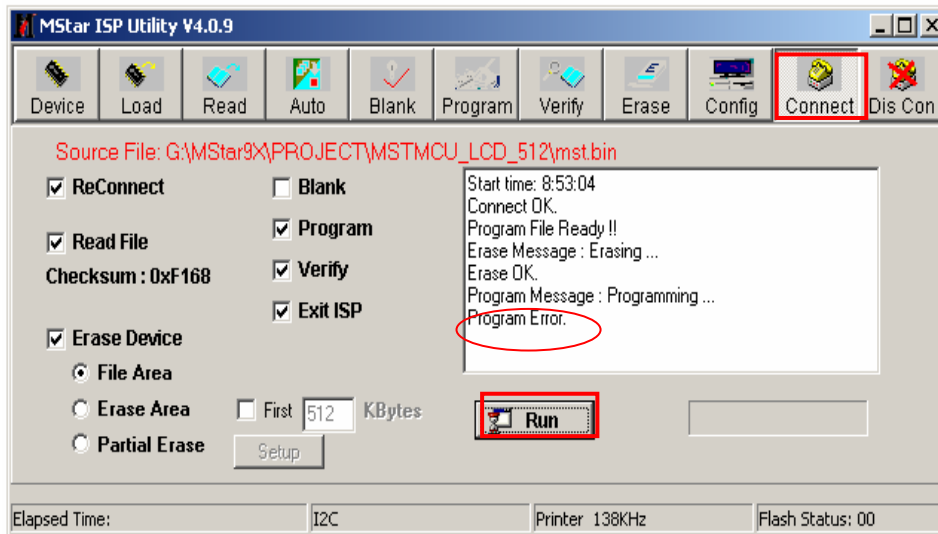
Click the“Run”button



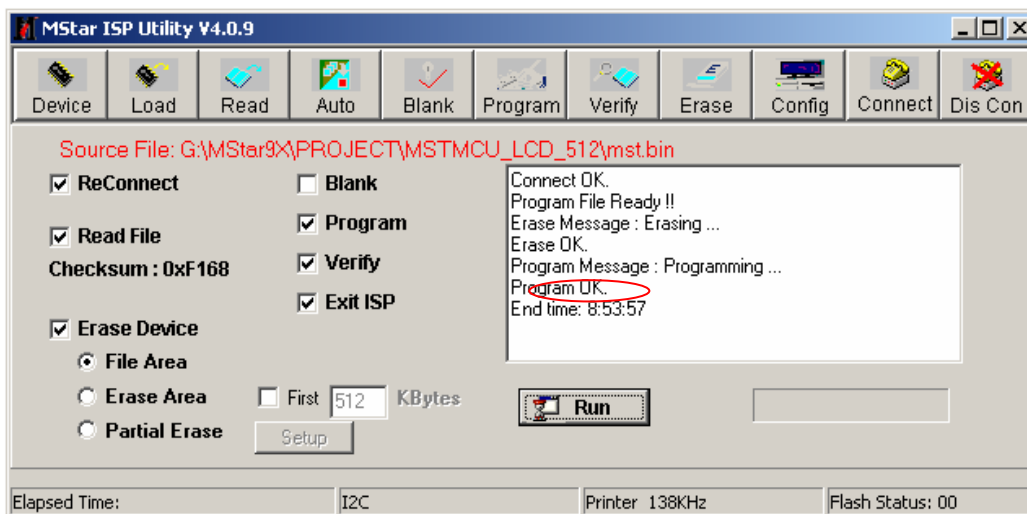
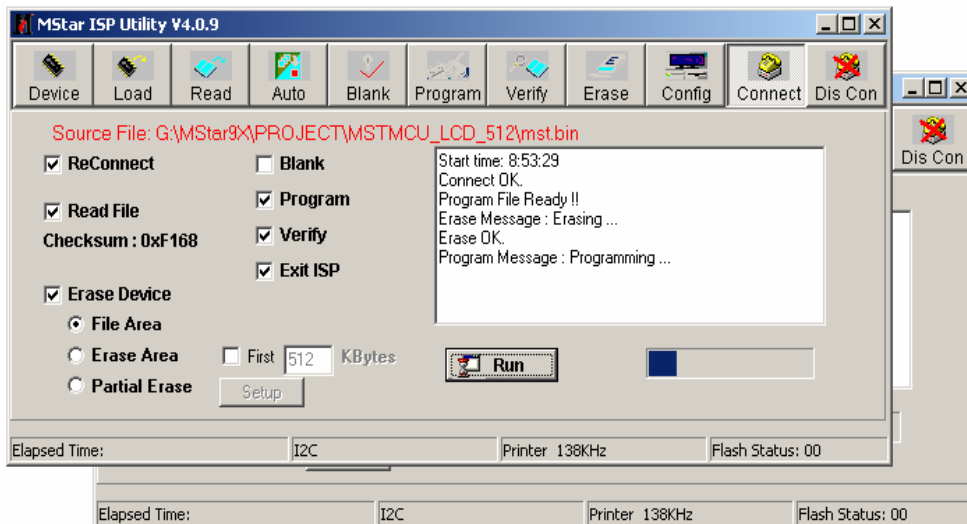
Click the“connect”button,then show a dialog box as following。



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.

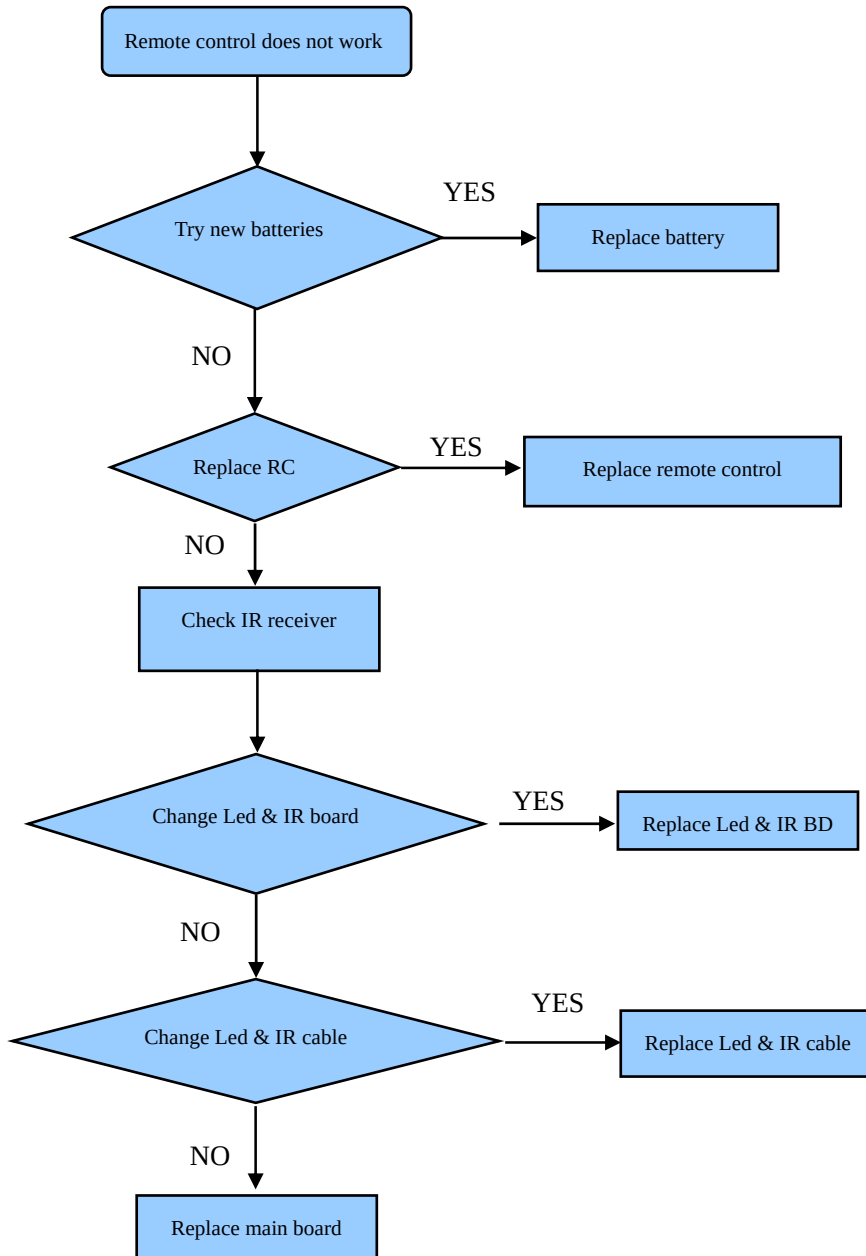
6.2.2 After the update is over. Must Confirm the software Version in the Version Menu.

If the update is successful, enter Factory Init Menu and select "Clear Unprotectly"

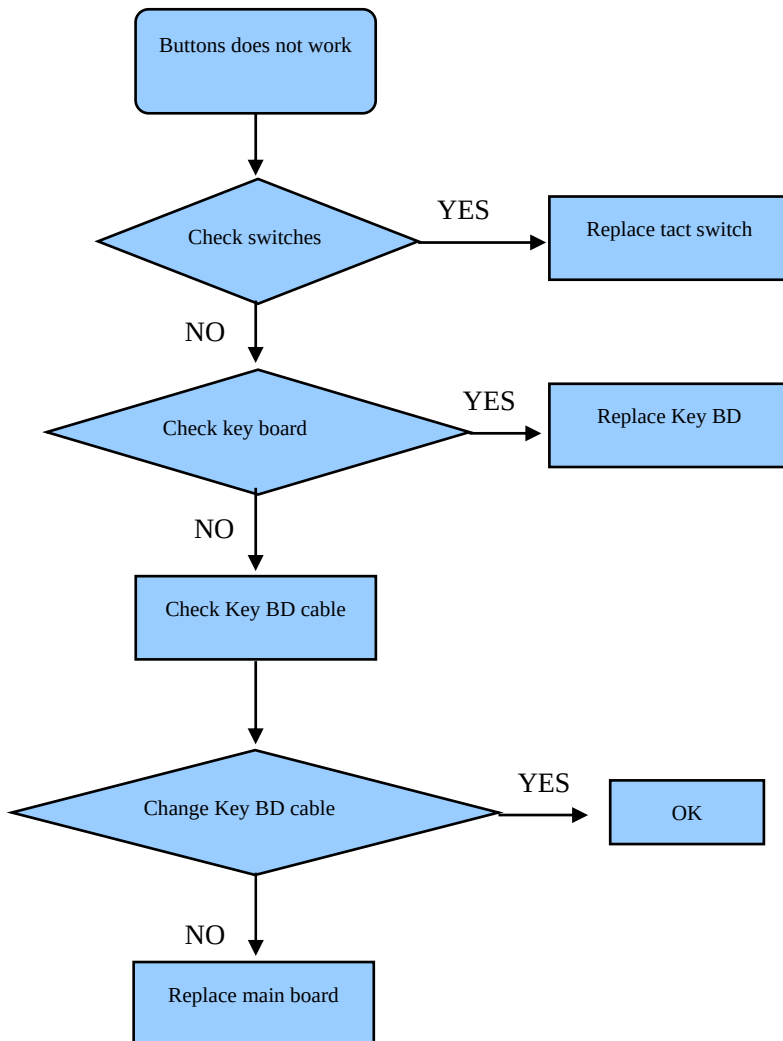
- a. Press VOL+ button to clear the EEPROM data.
- b. When the "Clear Unprotectly " button becomes white, turn off the power.
- c. Restart the TV.

7. Troubleshooting

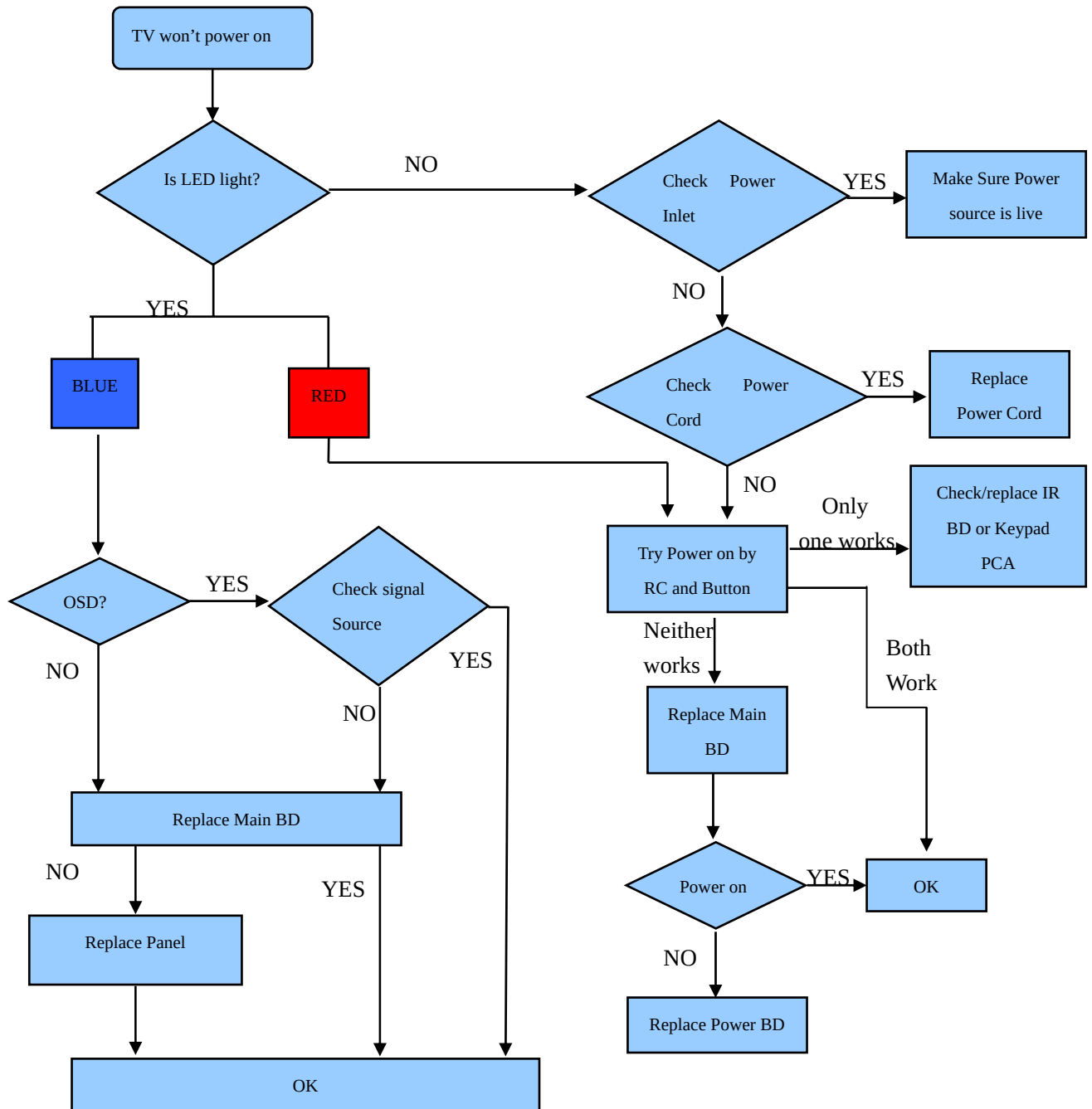
7.1 Troubleshooting for Remote Control



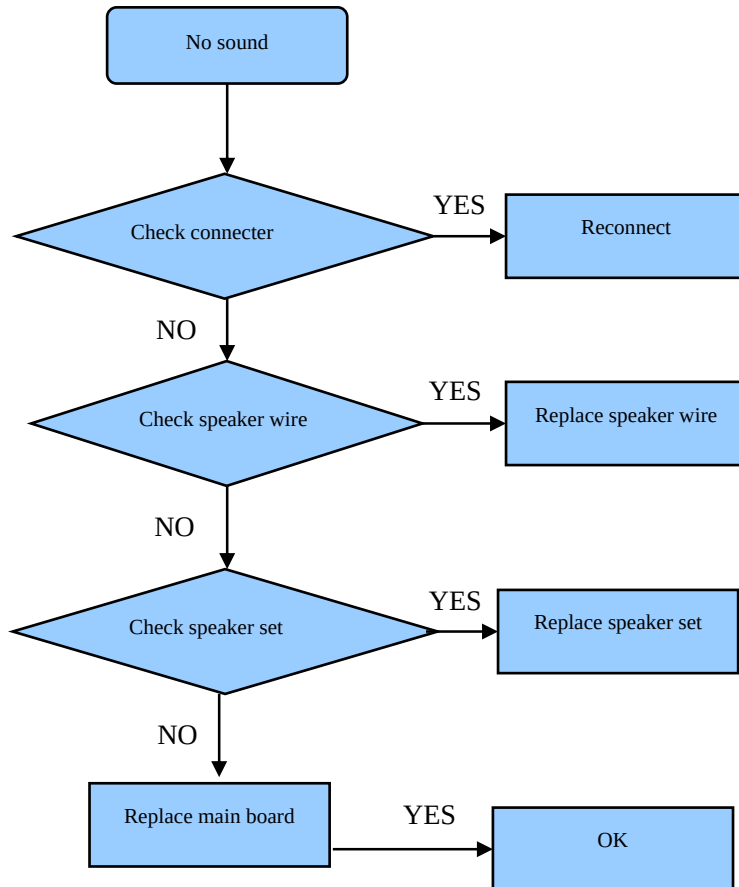
7.2 Troubleshooting for Function Key



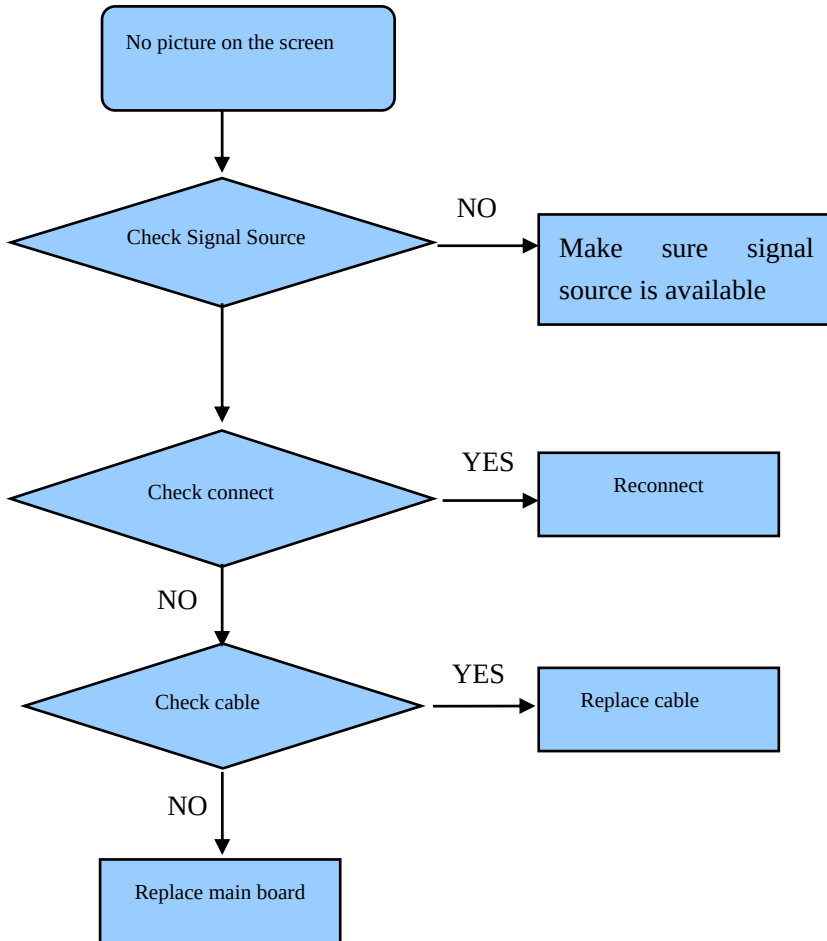
7.3 TV won't Power On



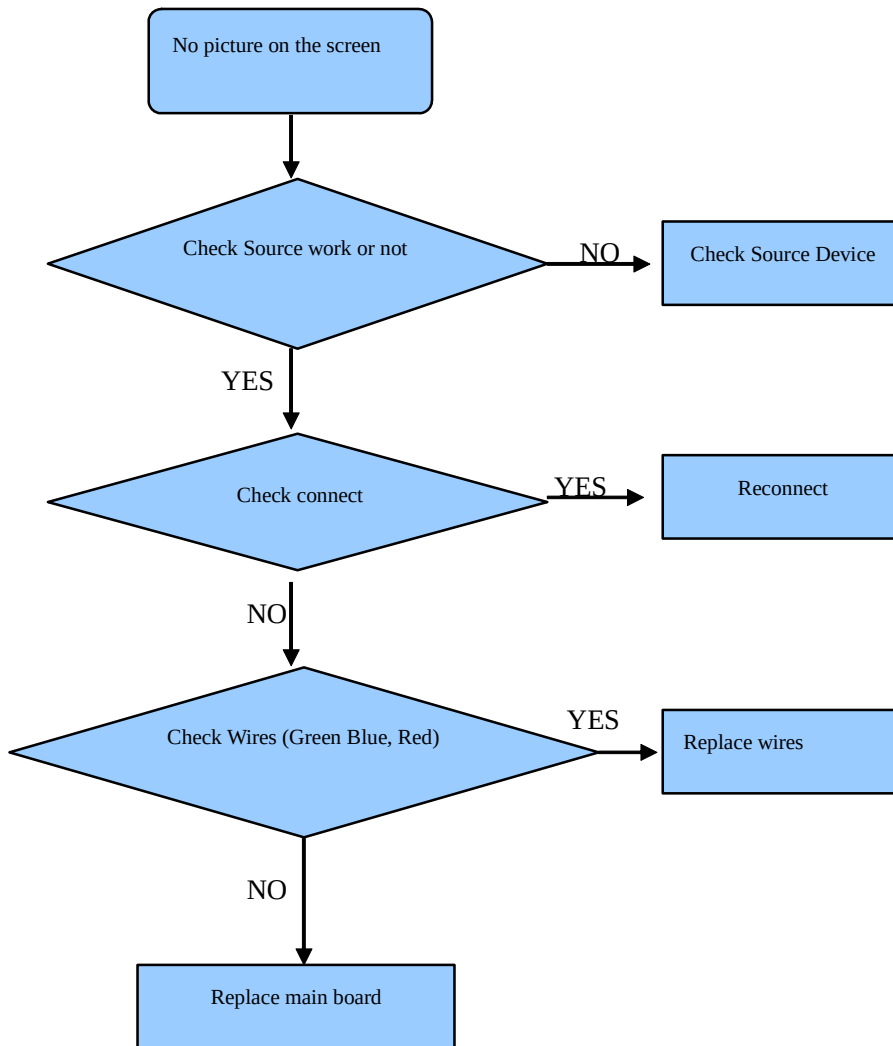
7.4 Troubleshooting for Audio



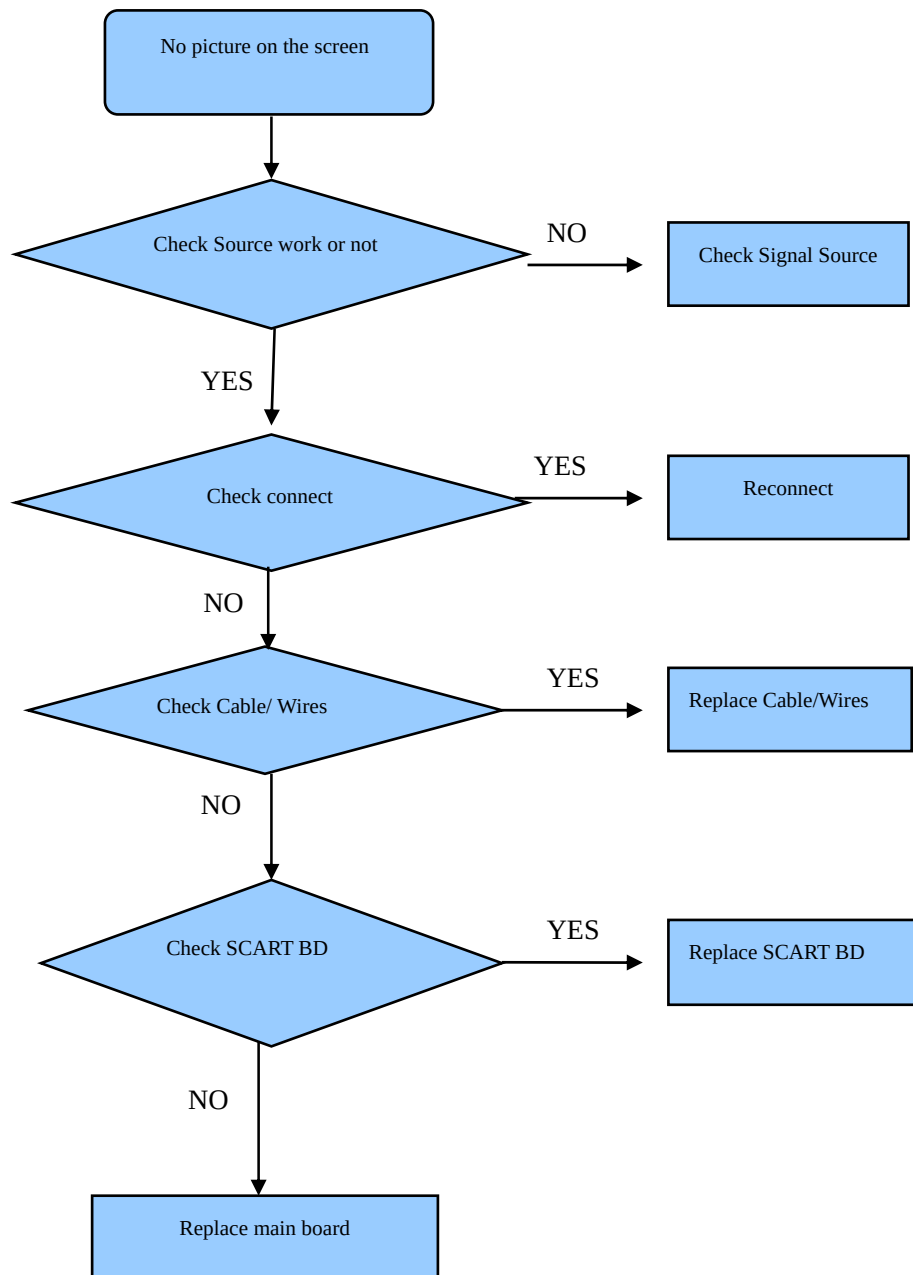
7.5 Troubleshooting for TV/VGA/HDMI input



7.6 Troubleshooting for YPbPr input

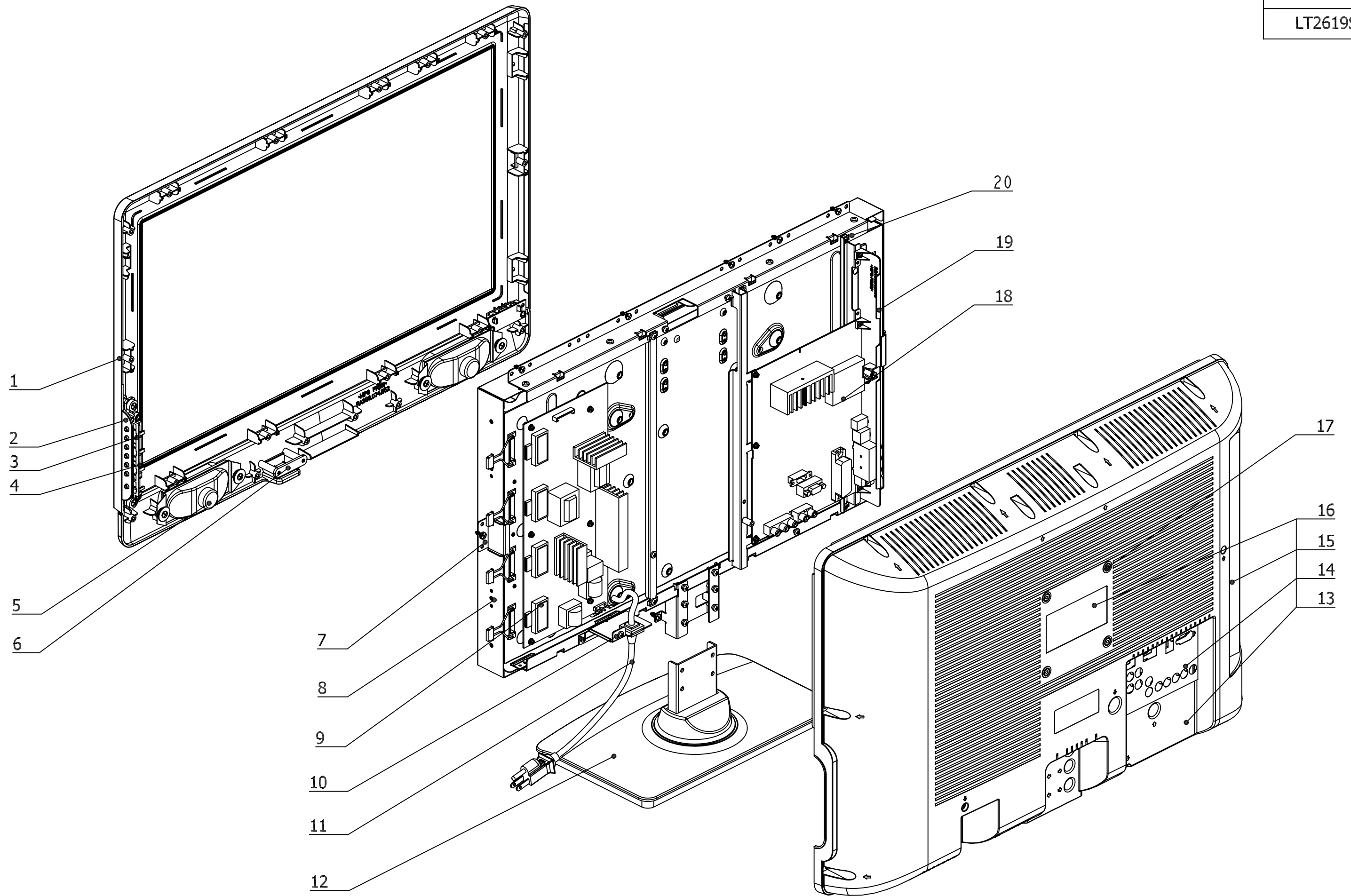


7.7 Troubleshooting for Video/S-Video/ SCART input



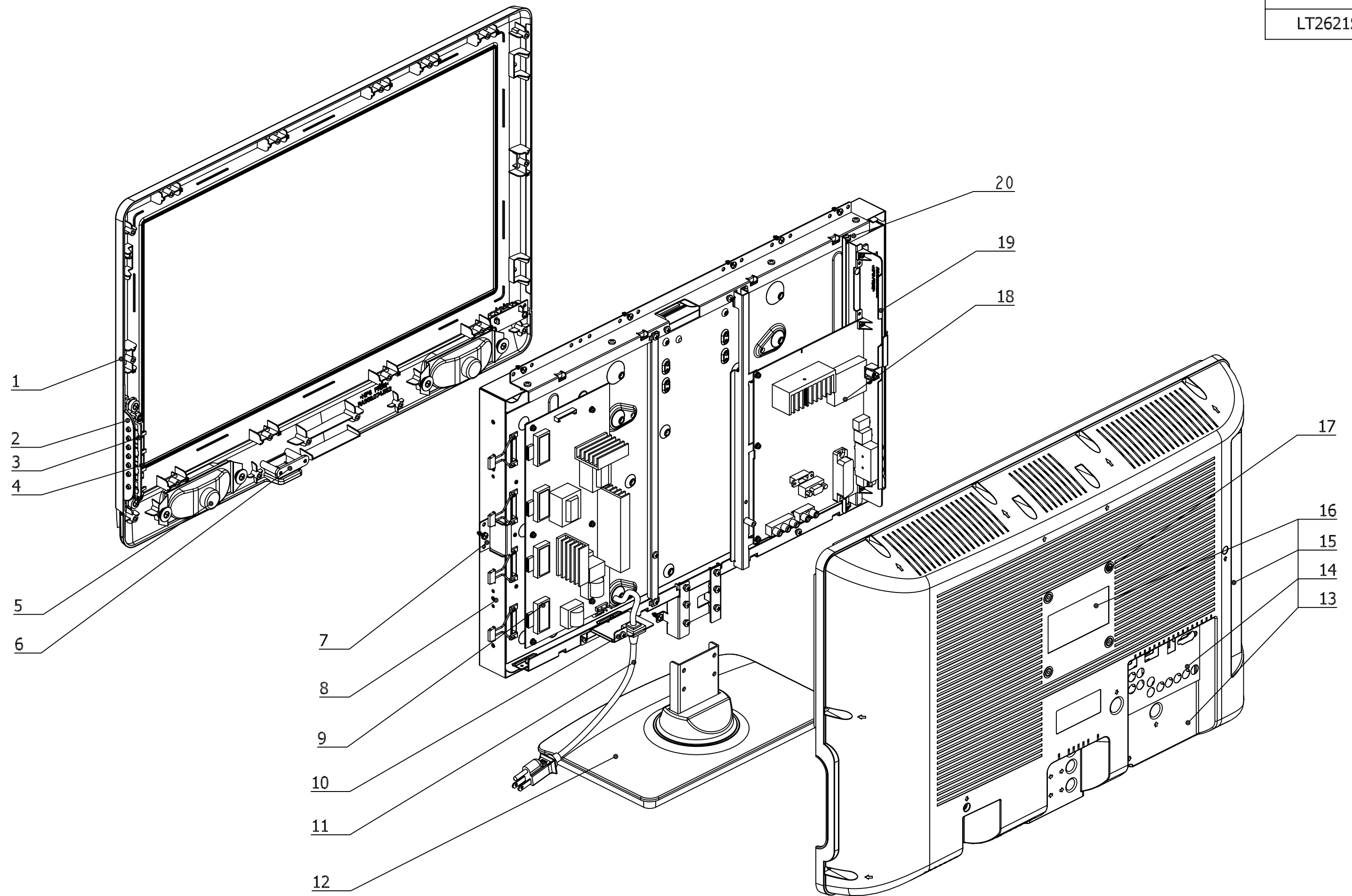
8. Explode View

9. Schematic circuit diagram



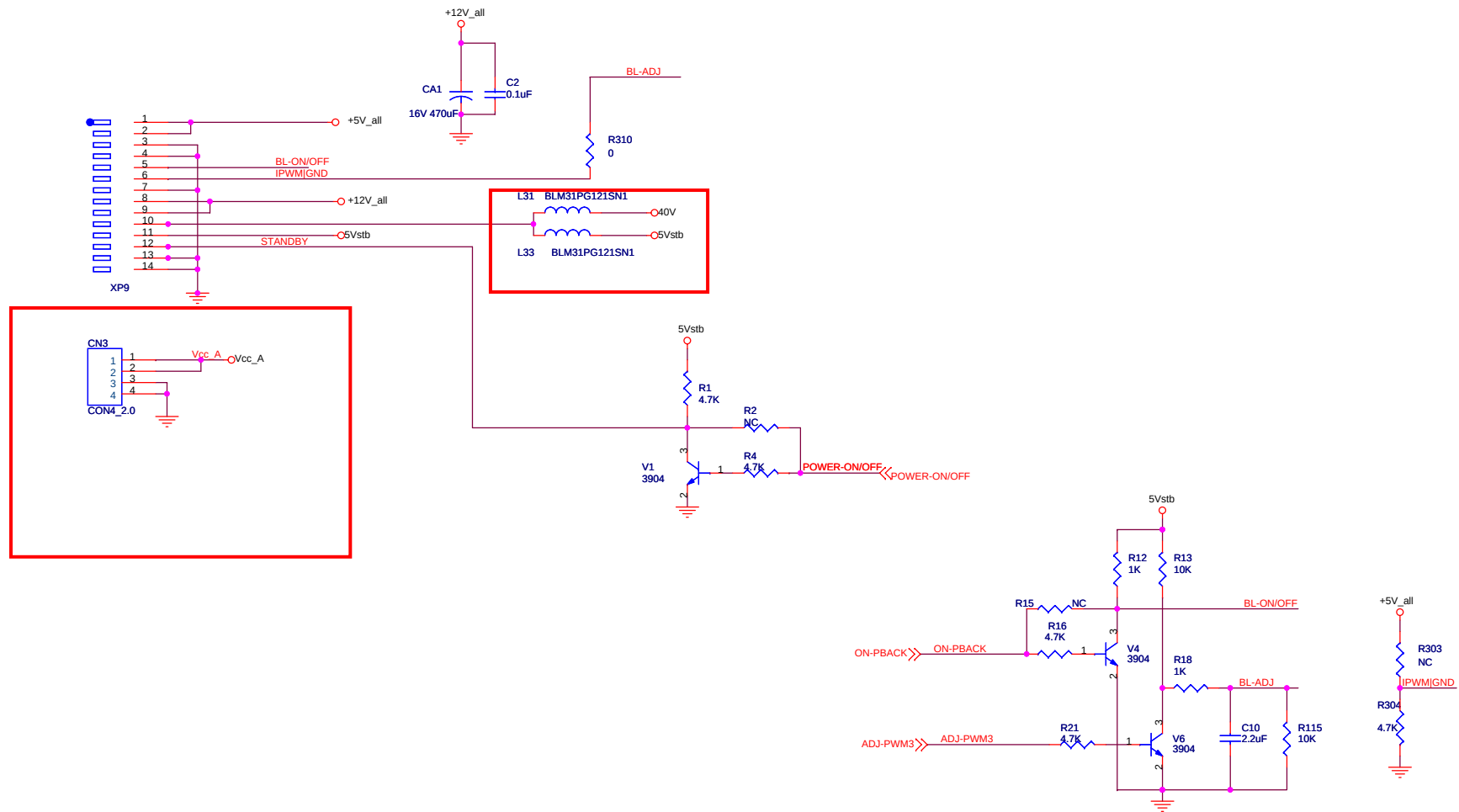
BBK LT2619SU PARTS LIST

No.	Part No.	Description	Qty.	Code Number	Remark
1	118625	Front Cover	1	RSAG8.074.552\Z4\ROH	
2	1052188	Bracket	1	RSAG8.078.481\B2\Z3\ROH	
3	1044829	Button Bracket	1	RSAG8.335.067\Z0\ROH	
4	117301	Keypad PCA	1	RSAG2.908.1088-1\ROH	
5	1046628	Speaker	2	YDT4211E-5W8R-F\ROH	
6	1036391	Block	1	RSAG8.634.047\black\ROH	
7	1050066	Bracket	2	RSAG8.038.1303\ROH	
8	118870	LCD Panel	1	V260B1-L02\HS\BL\ROH	
9	115429	Power Board	1	RSAG2.908.1251\ROH	
10	1050067	Bracket	1	RSAG8.038.1304\ROH	
11	1046924	Power Cord	1	YS-1\ROH	
12	1049574	Stand	1	RSAG6.121.053\ROH	
13	1050055	Rear Cover	1	RSAG8.074.541\Z0\ROH	Please order them together
14	1052003	Side Label	1	RSAG8.804.3280\ROH	
15	1053175	Bottom Label	1	RSAG8.804.3317 \ROH	
16	1055349	Rating Label	1	RSAG8.807.3922	
17	1048779	Bracket Unit	2	RSAG6.150.452\ROH	
18	117379	Main Board	1	RSAG2.908.1395-1\ROH	
19	1053183	Terminal Bracket	1	RSAG8.081.447\Z0\ROH	
20	1050068	Bracket Unit	1	RSAG4.114.052\ROH	

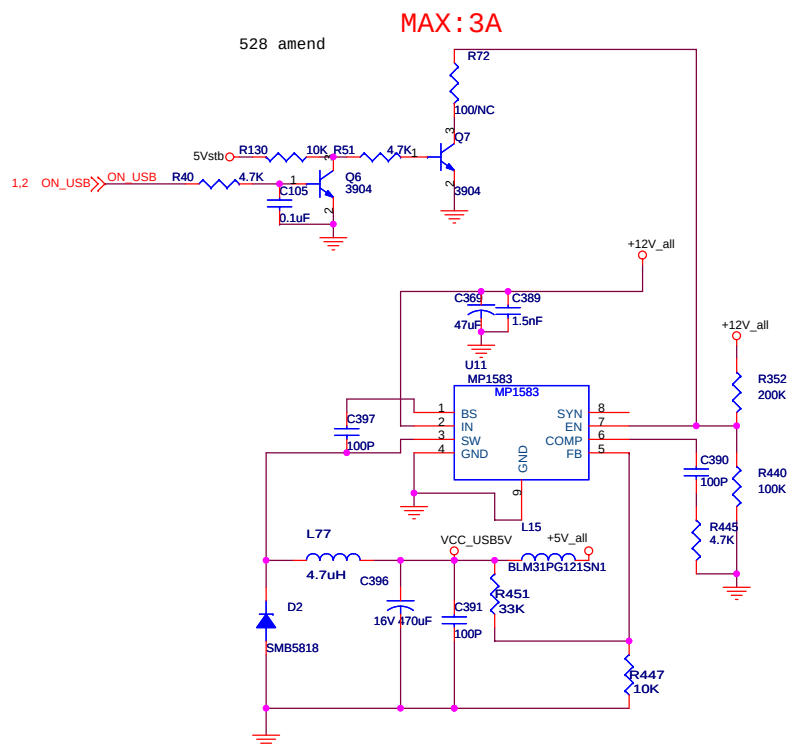
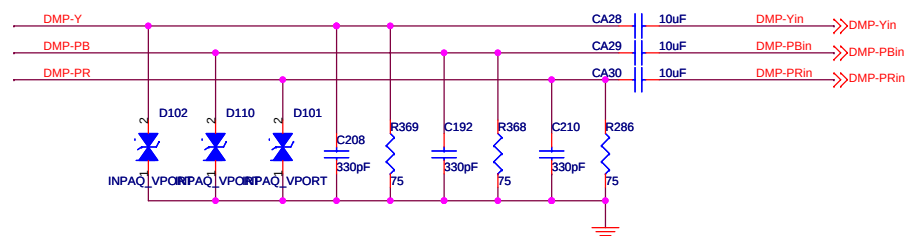
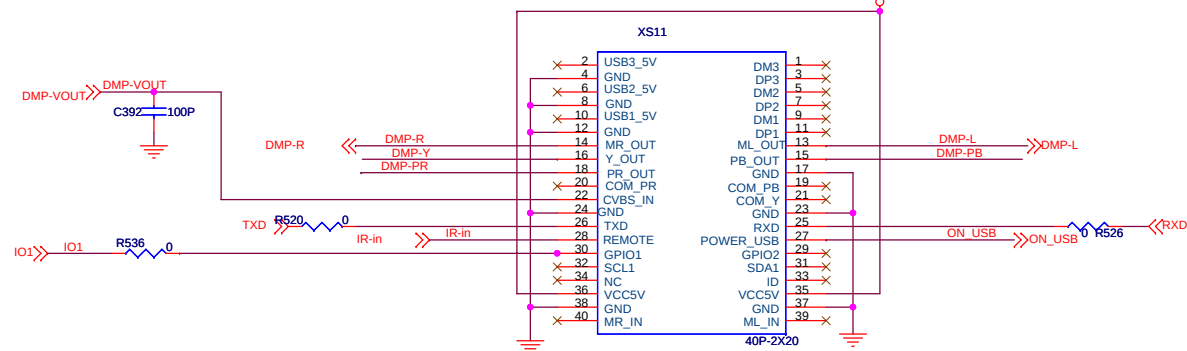
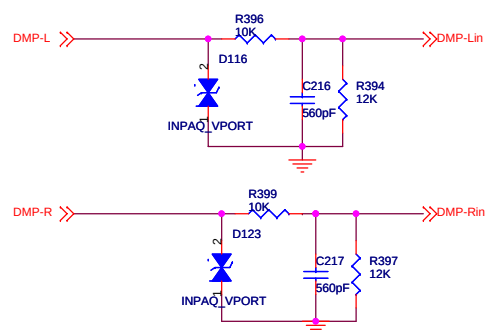
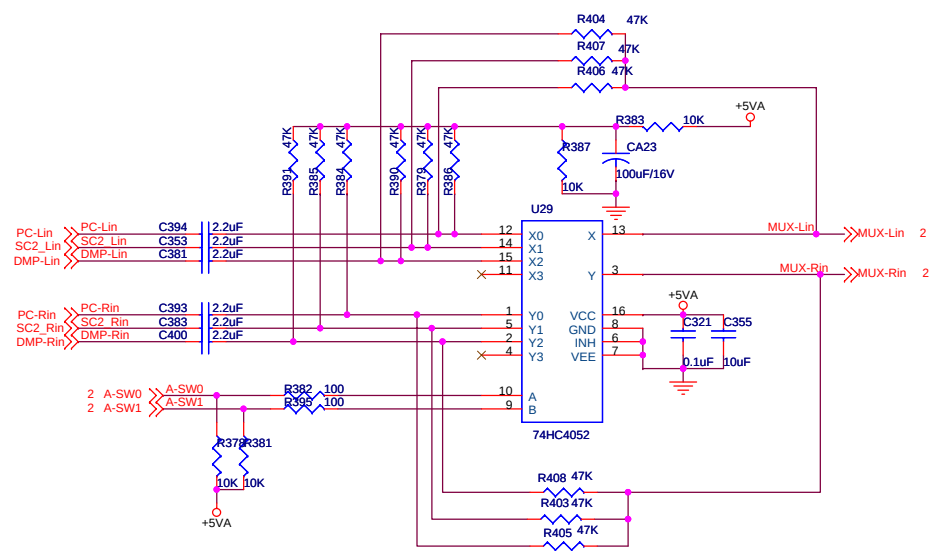


BBK LT2621SU PARTS LIST

No.	Part No.	Description	Qty.	Code Number	Remark
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2	1052188	Bracket	1	RSAG8.078.481\B2\Z3\ROH	
3	1044829	Button Bracket	1	RSAG8.335.067\Z0\ROH	
4	117301	Keypad PCA	1	RSAG2.908.1088-1\ROH	
5	1046628	Speaker	2	YDT4211E-5W8R-F\ROH	
6	1036391	Block	1	RSAG8.634.047\black\ROH	
7	1050066	Bracket	2	RSAG8.038.1303\ROH	
8	118870	LCD Panel	1	V260B1-L02\HS\BL\ROH	
9	115429	Power Board	1	RSAG2.908.1251\ROH	
10	1050067	Bracket	1	RSAG8.038.1304\ROH	
11	1046924	Power Cord	1	YS-1\ROH	
12	1049574	Stand	1	RSAG6.121.053\ROH	
13	1050055	Rear Cover	1	RSAG8.074.541\Z0\ROH	Please order them together
14	1052003	Side Label	1	RSAG8.804.3280\ROH	
15	1053175	Bottom Label	1	RSAG8.804.3317 \ROH	
16	1055349	Rating Label	1	RSAG8.807.3922	
17	1048779	Bracket Unit	2	RSAG6.150.452\ROH	
18	117379	Main Board	1	RSAG2.908.1395-1\ROH	
19	1053183	Terminal Bracket	1	RSAG8.081.447\Z0\ROH	
20	1050068	Bracket Unit	1	RSAG4.114.052\ROH	

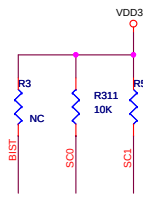


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Date:	Saturday, July 12, 2008	Sheet 1 of 19



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Size A3	Document Number <Doc>		Rev <Rev Co
Date:	Wednesday, July 16, 2008	Sheet 1 of 1	

[ASIC Control]

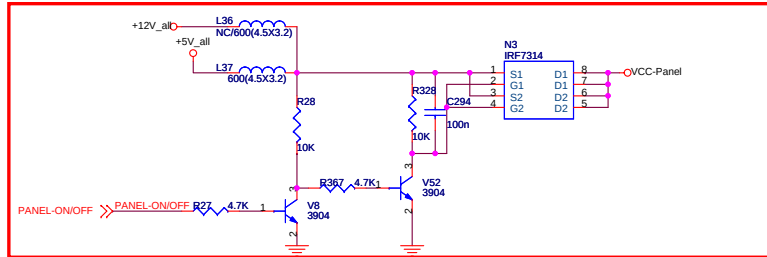
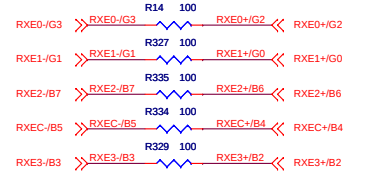


MST7381B Cancel

用于MST7381B与MST7382B兼容

MST7381B C3=1uF
MST7382B C3=0.1uF

[Terminator near T-CON]



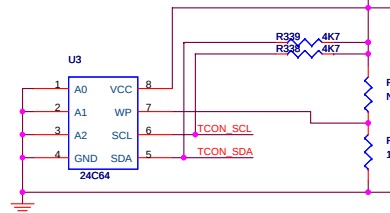
~420mA

~250mA

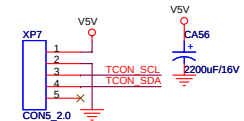
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[Filter near T-CON]

[I2C EEPROM for LUT]

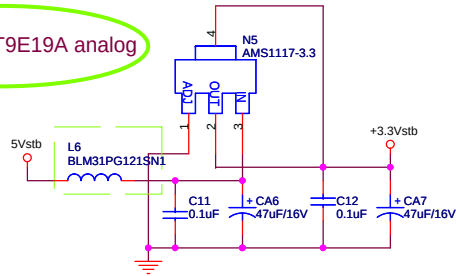


Debug port



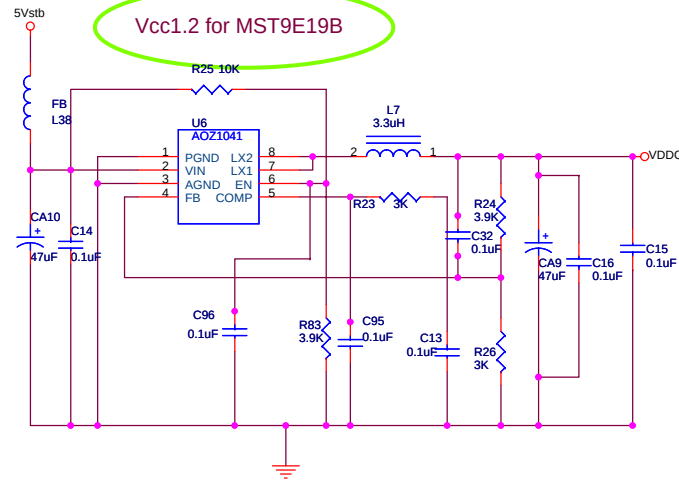
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Date	Saturday, July 12, 2008	Sheet	1 of 1

Vcc3.3for MST9E19A analog

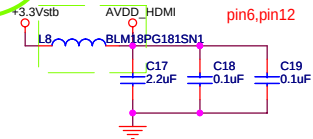


$$0.81 \cdot (1 + R_{up}/R_{down}) = 1.8V \text{---} R_{up} = 10K, R_{down} = 8.2K$$

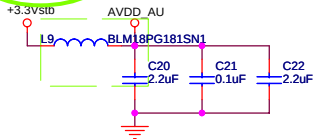
Vcc1.2 for MST9E19B



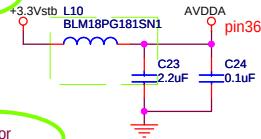
+3.3AVDD for AVDD_HDMI



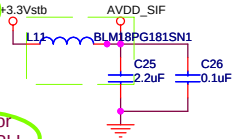
+3.3AVDD for AVDD_AU



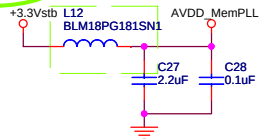
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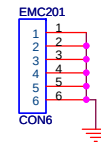
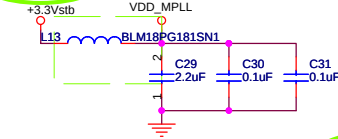
+3.3AVDD for AVDD_SIF



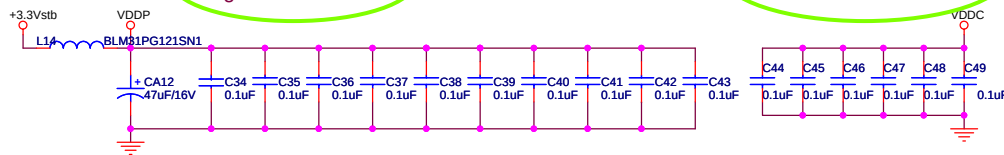
3.3V for AVDDPLL2



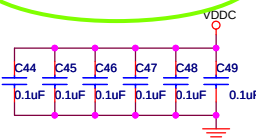
+3.3V for VDD_MPLL



Vcc3.3for MST9E19A Digital



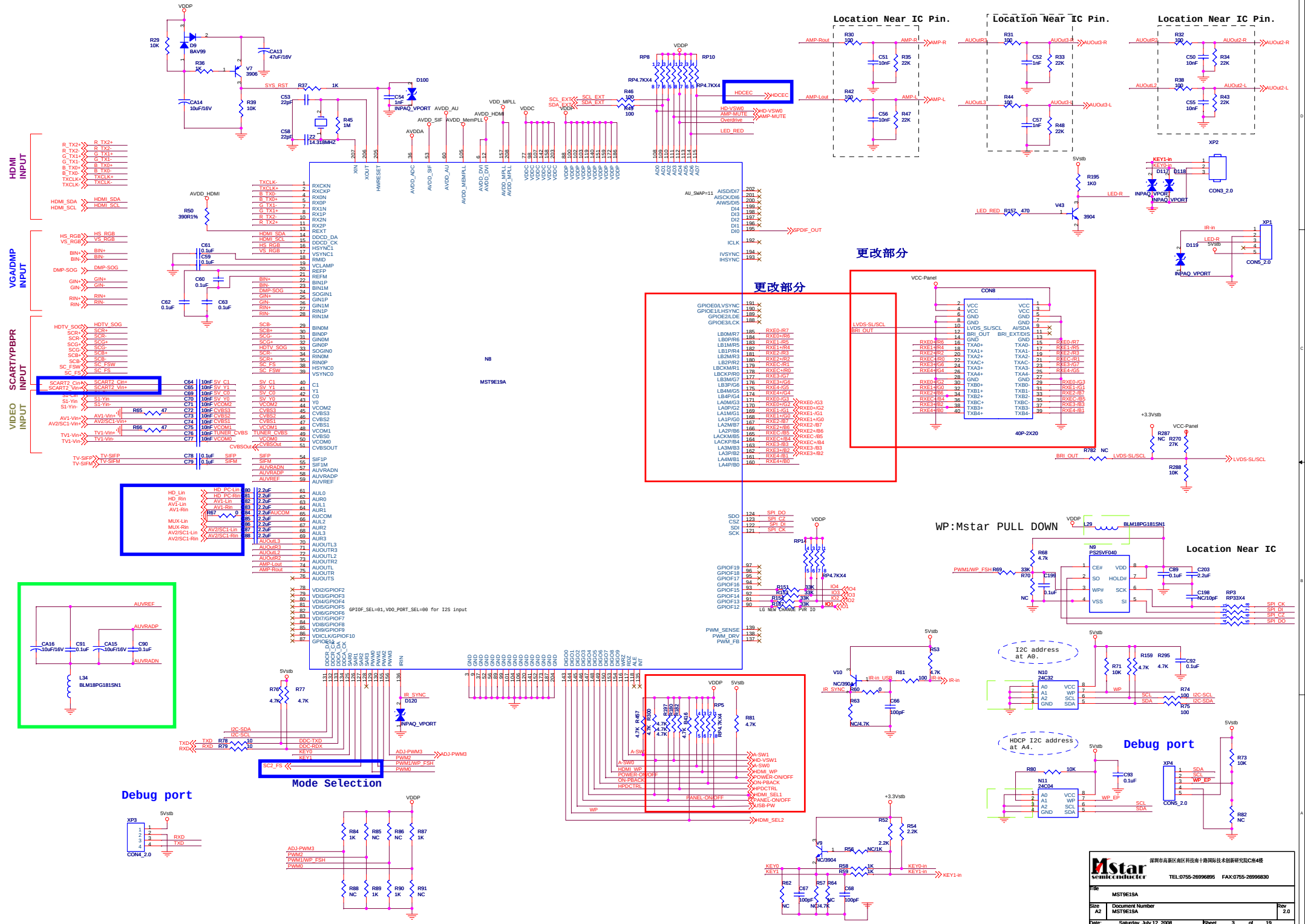
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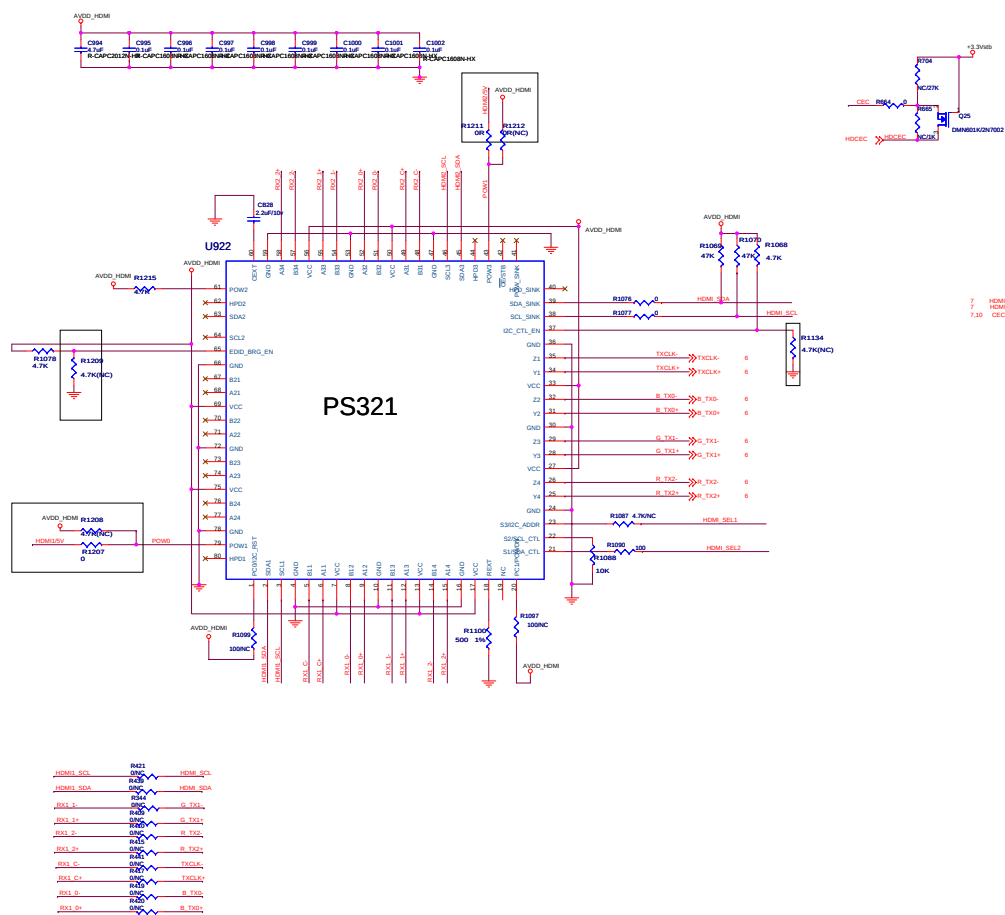


深圳市高新区南区科技南十路国际技术创新研究院C座4楼

TEL:0755-26996895 FAX:0755-26996830

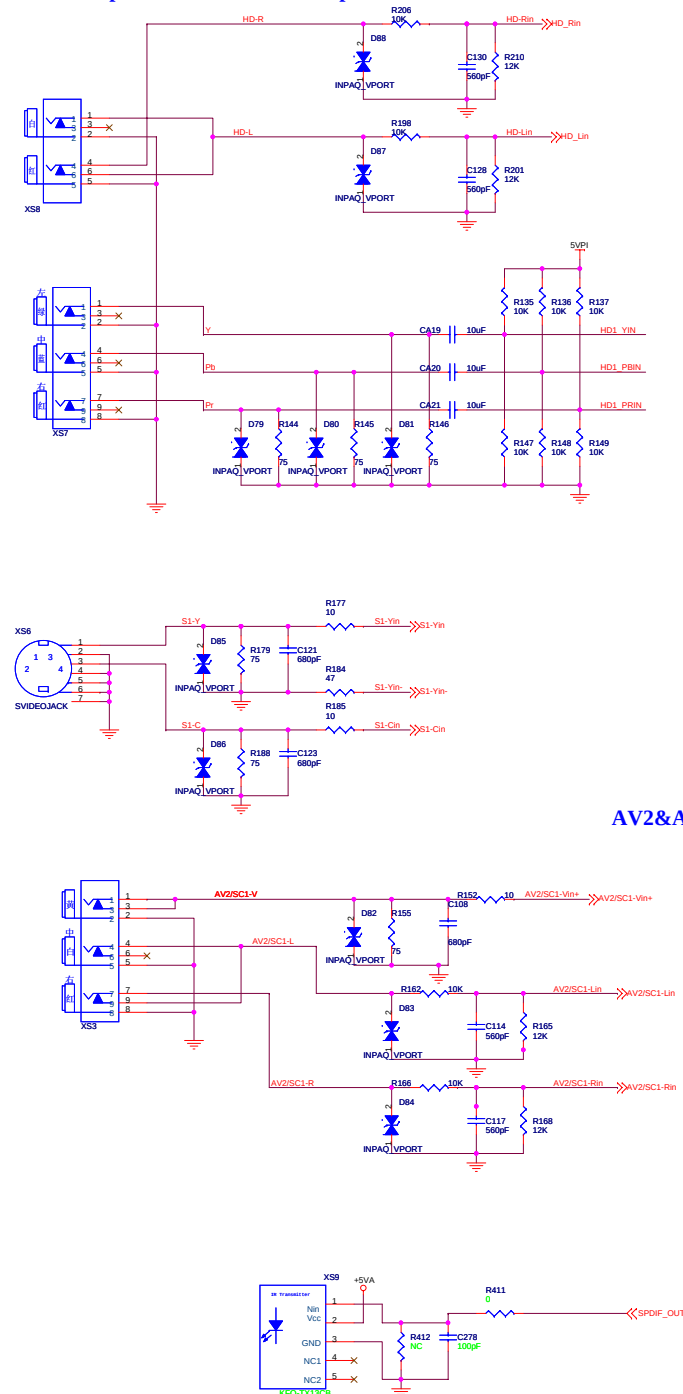
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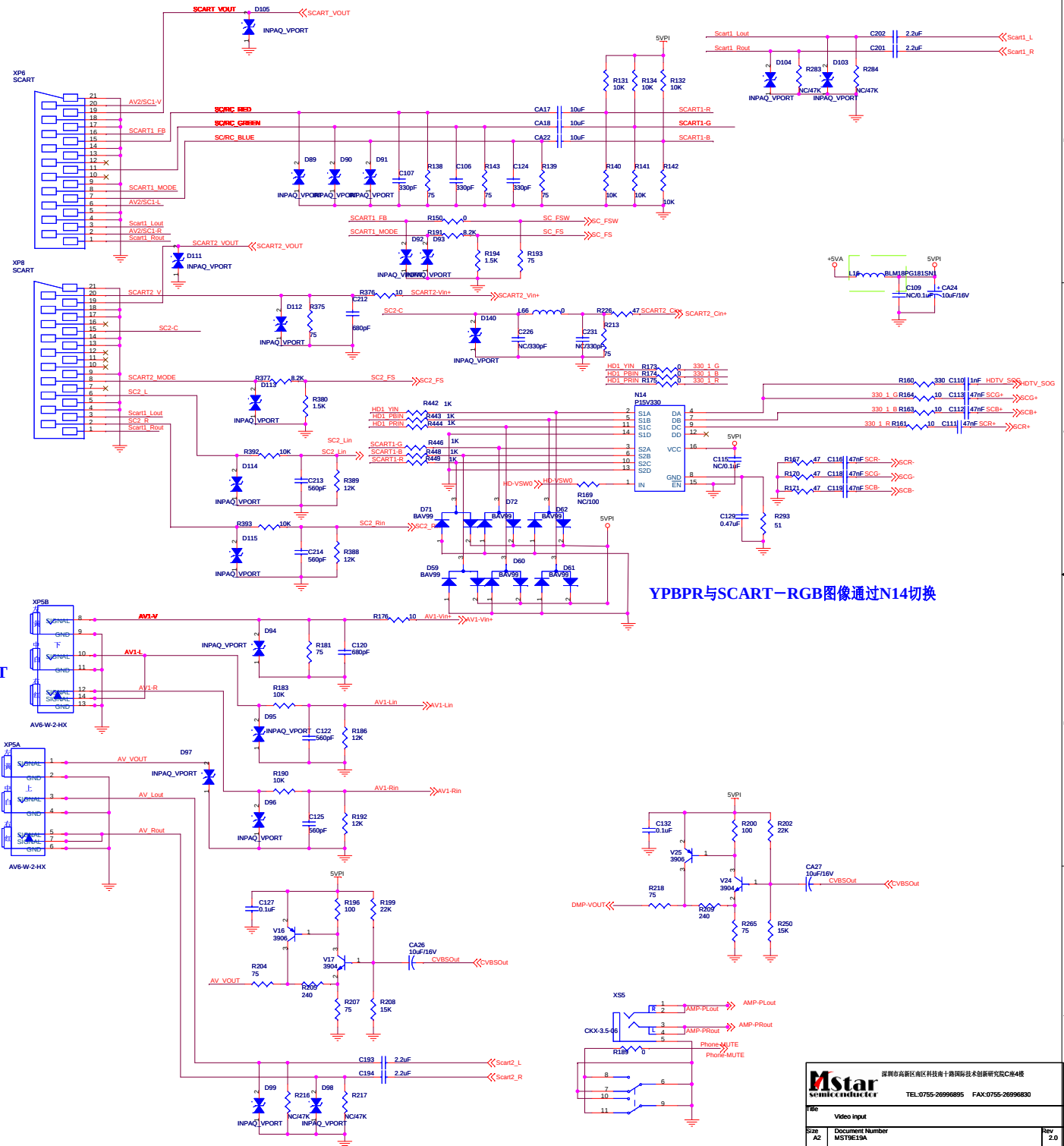


HDTV Input

PC Audio Input



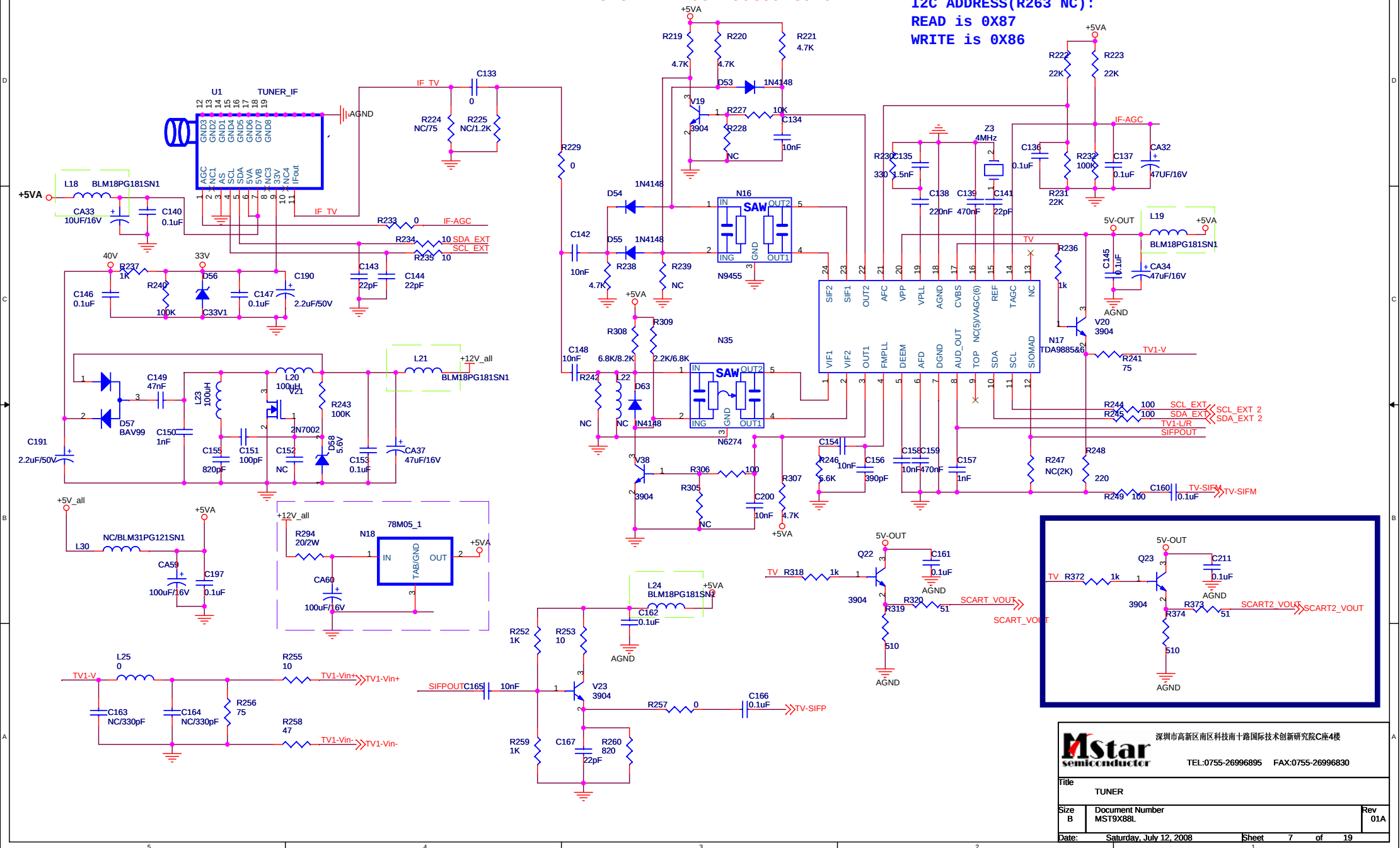
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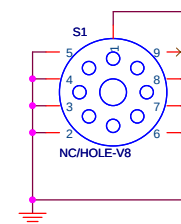
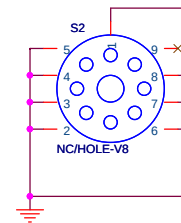
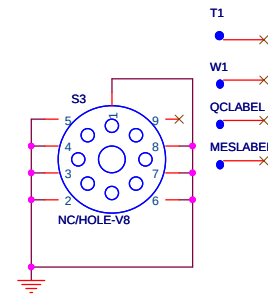
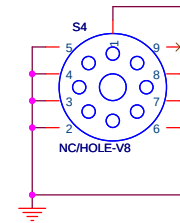
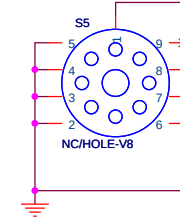
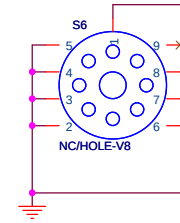


YPBPR与SCART-RGB图像通过N14切换

U23 PIN2 connected to PIN1 B/G,DK,I,L
U23 PIN2 connected to GND L'

I2C ADDRESS(R263 NC):
READ is 0X87
WRITE is 0X86





Title		
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Size	Document Number	Rev
A3	MST9E19A	0.01
Date:	Saturday, July 12, 2008	Sheet 8 of 19

FOR TDA1308/PT2308 L26 FB,R298 NC;
FOR TL062 L26 NC,R298 0;

