

User's Guide of V59 TV Controller Board

V1.1

2014-04-09

ELECREALM

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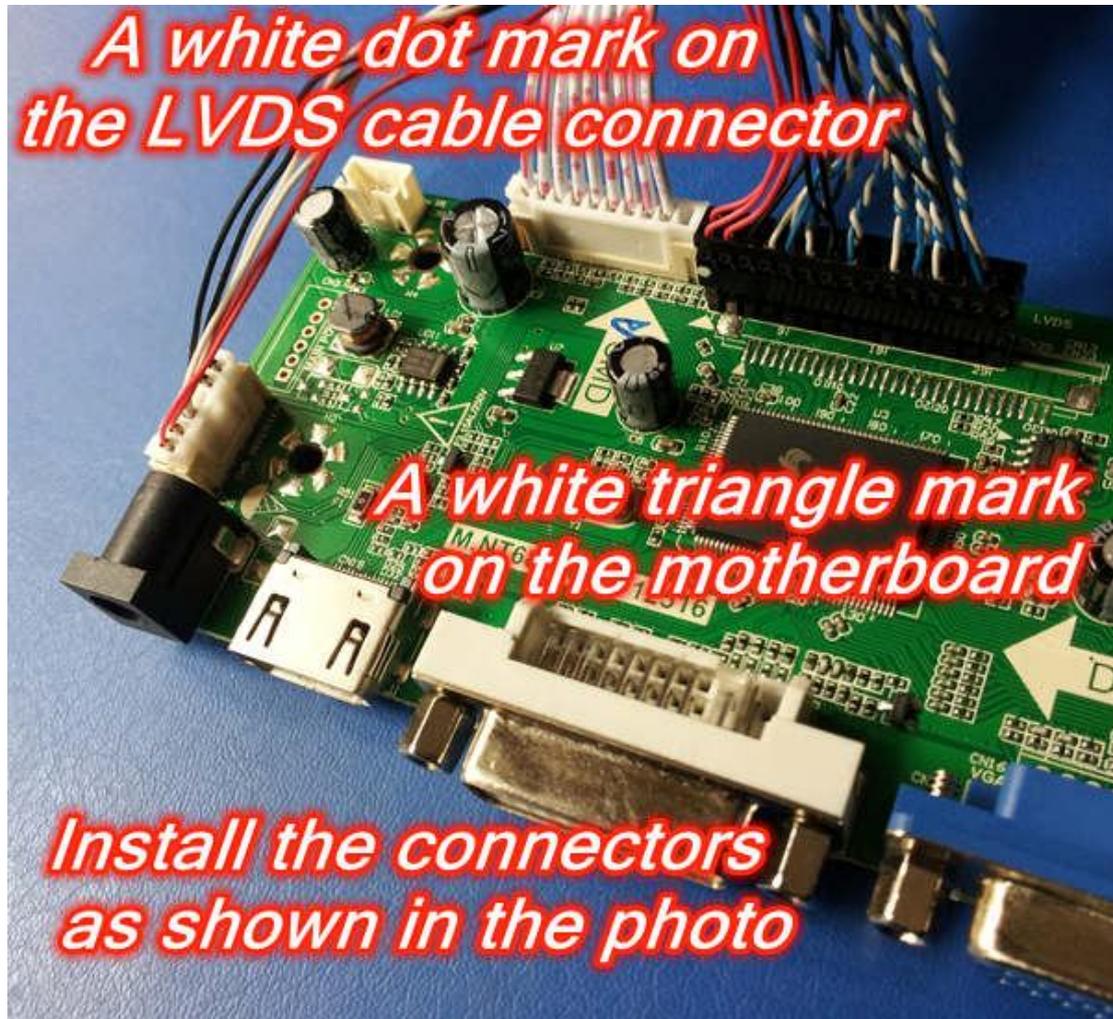


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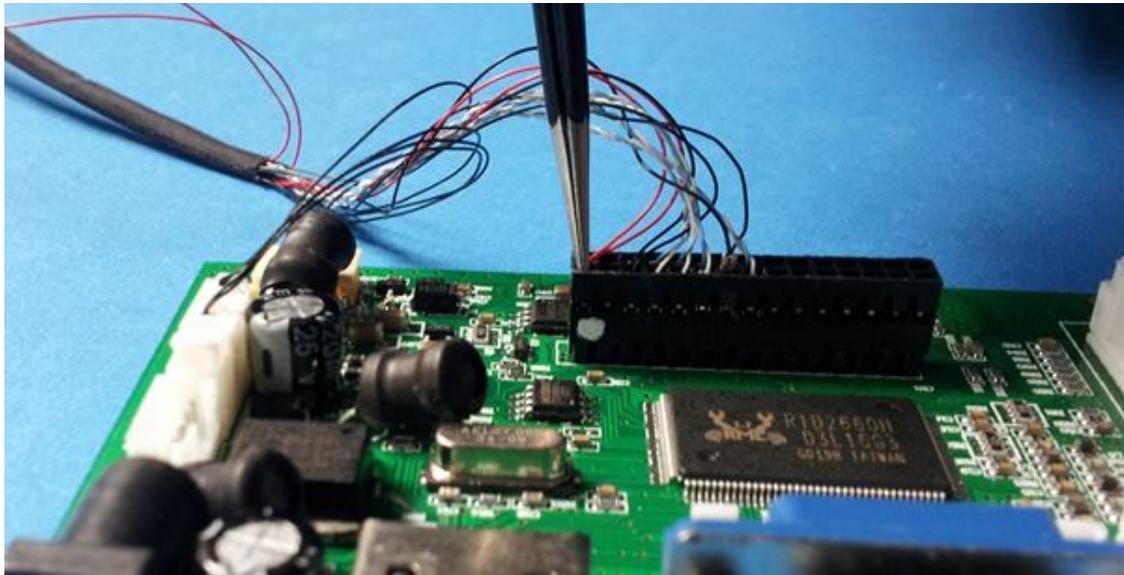
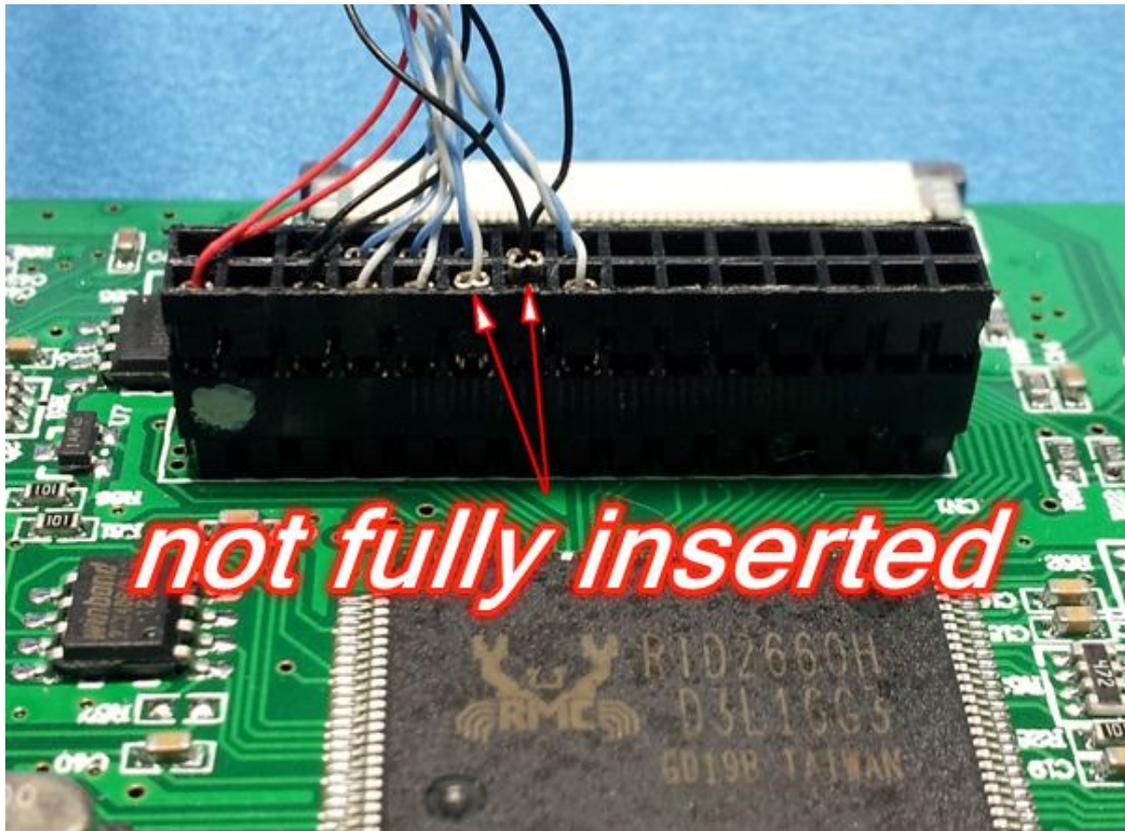
Chapter 1--LVDS Cable Connection



Please check the inserting condition of each foot. If some foot is not fully inserted (as shown in the figure below), please use tweezers to press the exposure to the top of the foot, let all feet be inserted into well.

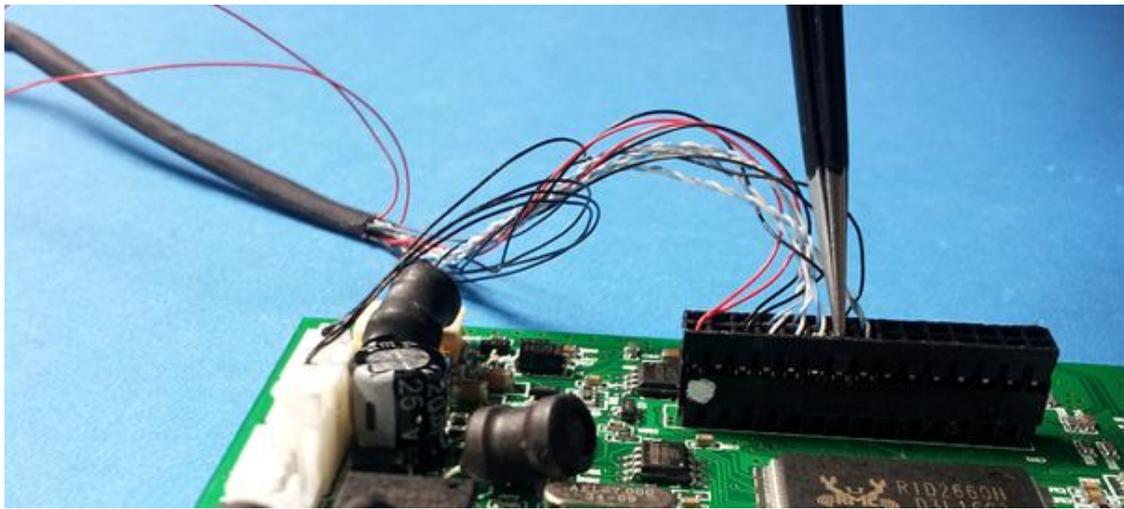
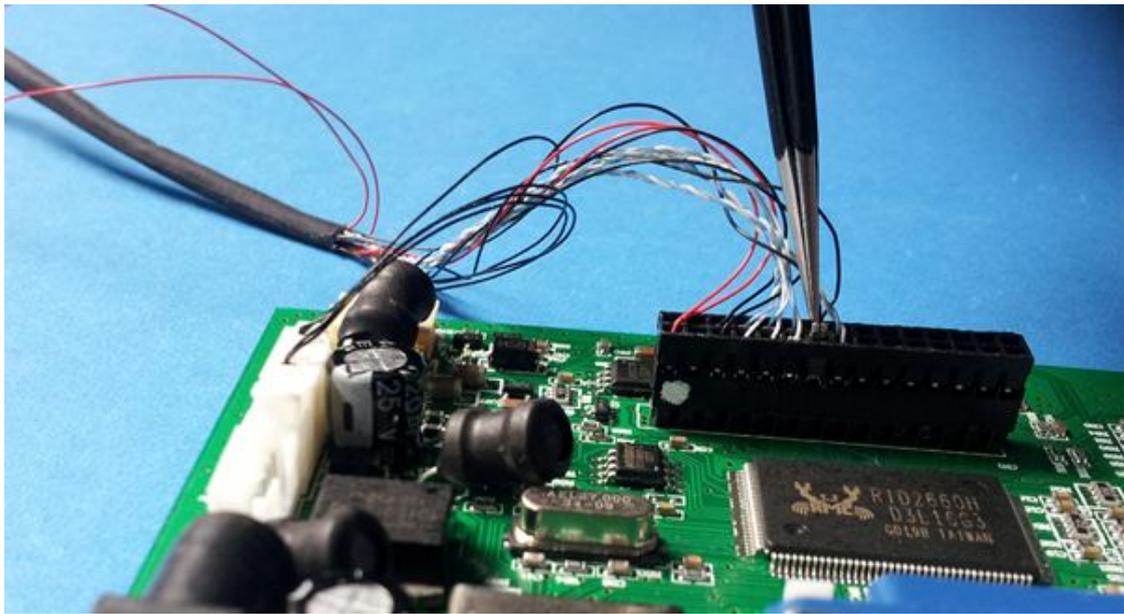


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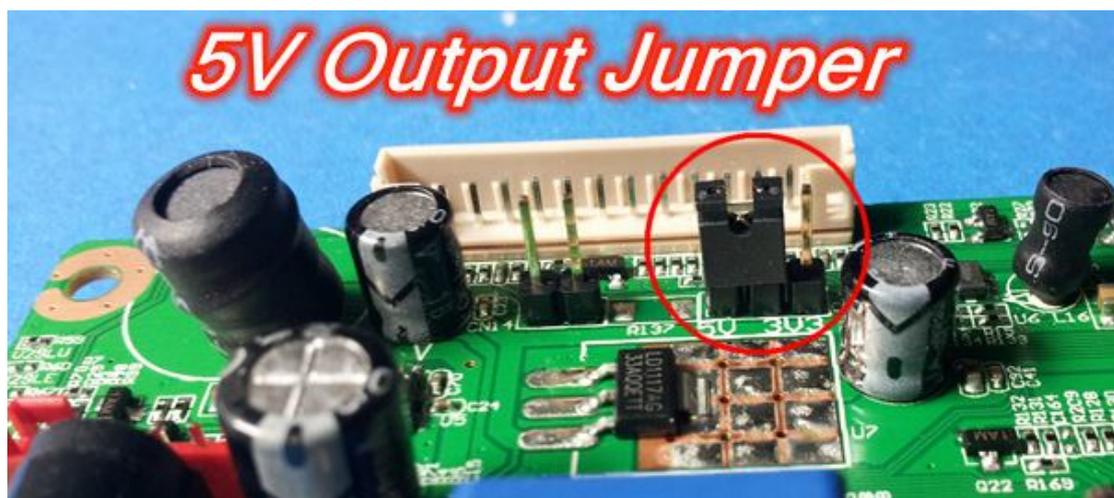
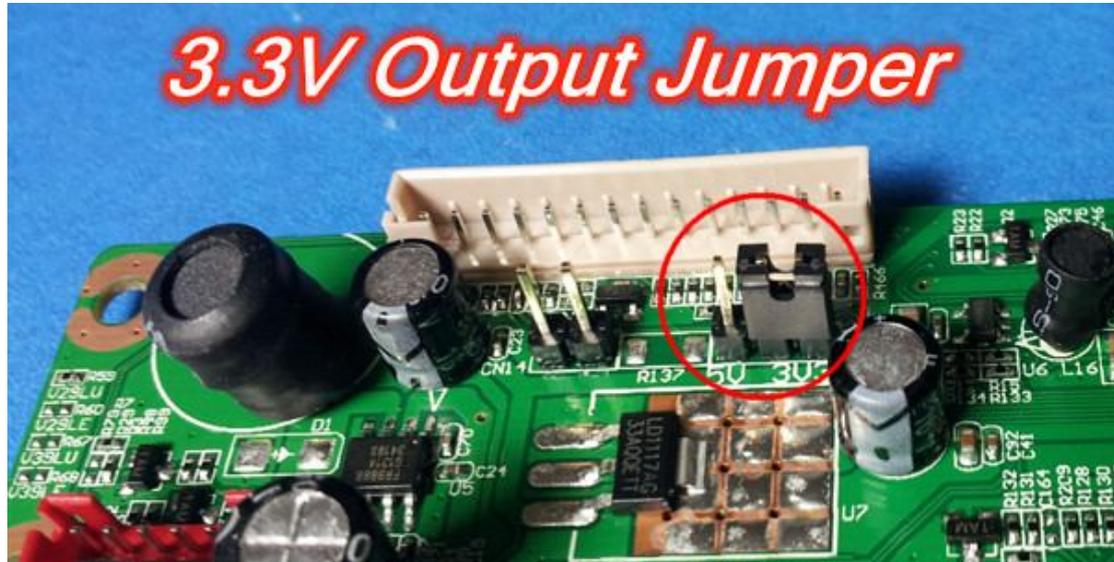


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Chapter 2--Voltage Jumper





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Chapter 3--Refresh firmware

1. Please Prepare USB 2.0 Flash Memory Driver disk.



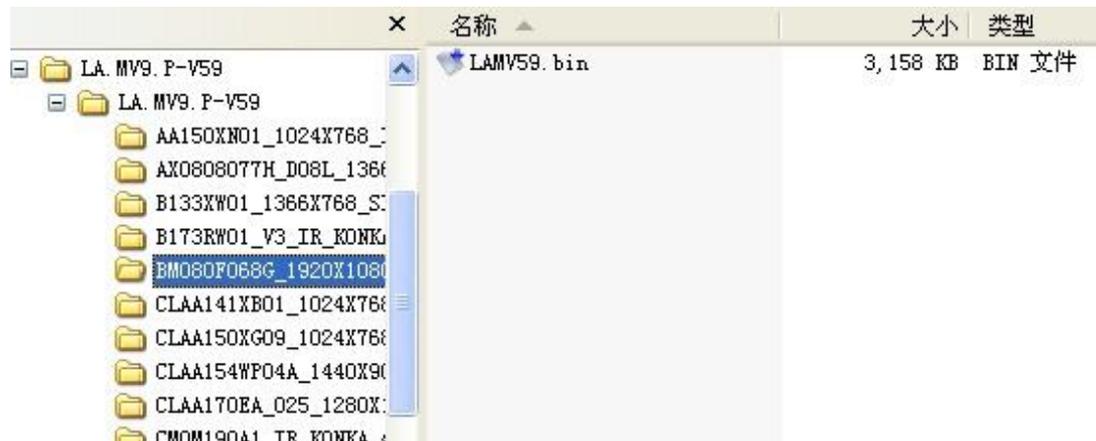
2. Please select the suitable firmware according to the resolution of your LCD panel.



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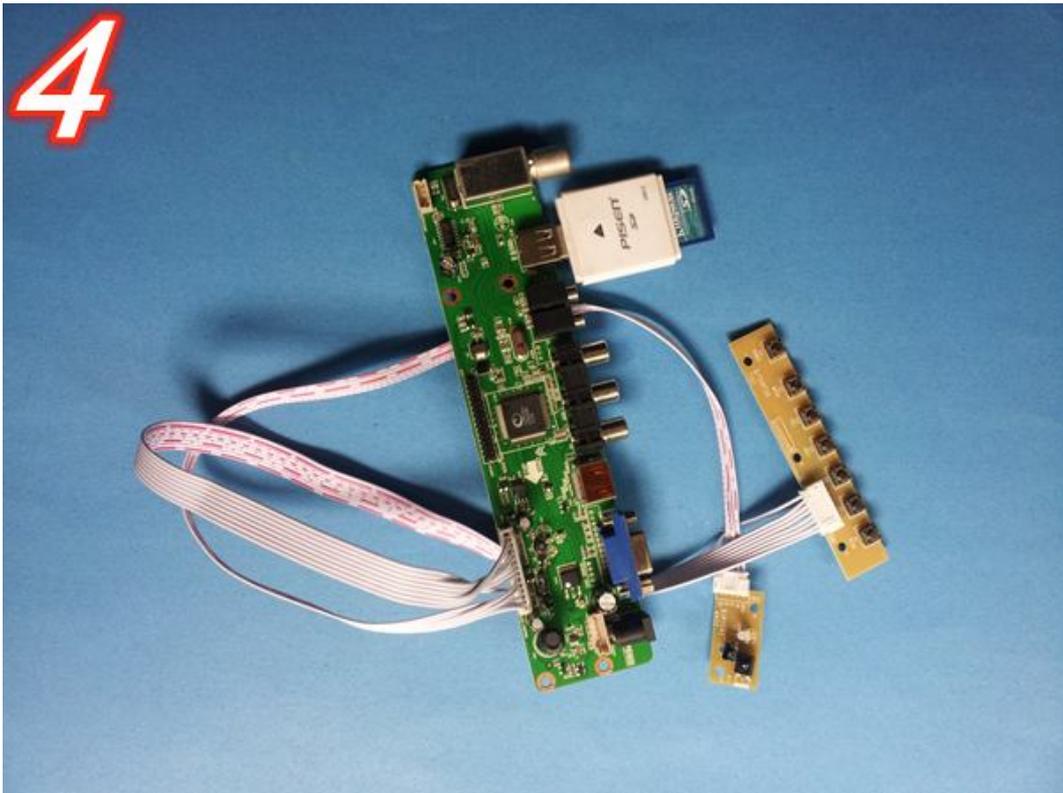
3. Please copy the firmware to the USB 2.0 Flash Memory Driver disk. Make sure it only has one firmware file that you need refresh.



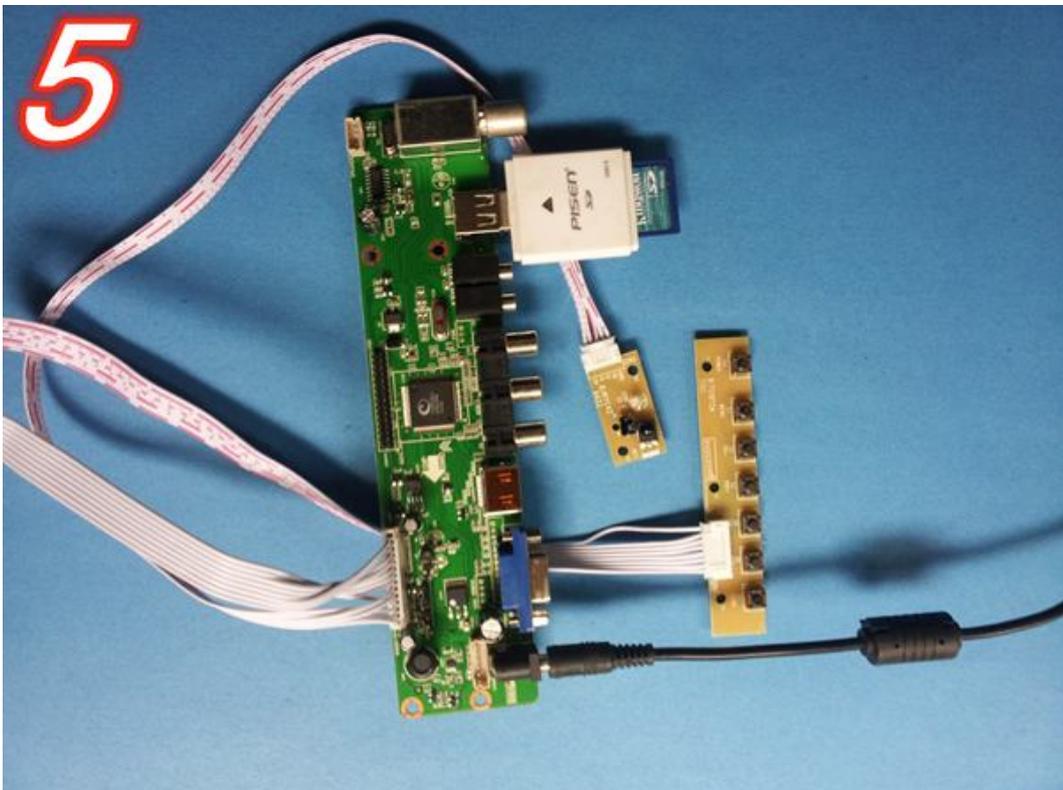
4. Plug in USB 2.0 Flash Memory Driver disk to the USB port of controller Board.



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5. Plug in 12V DC Power Supply.

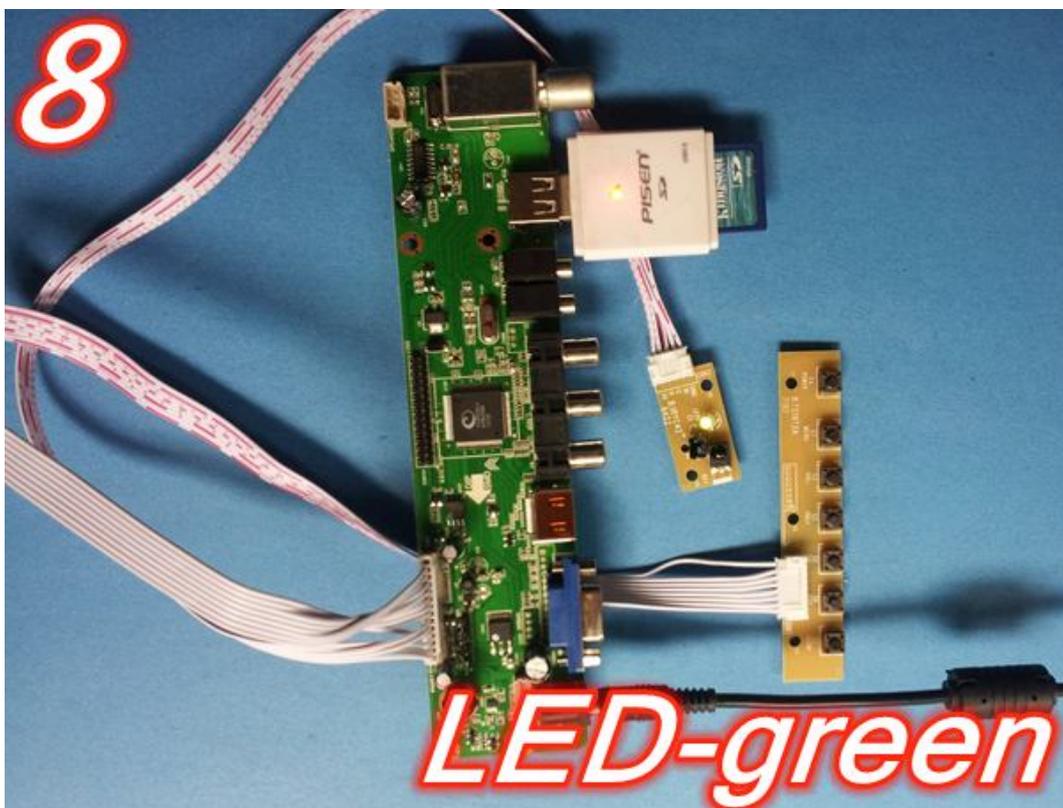
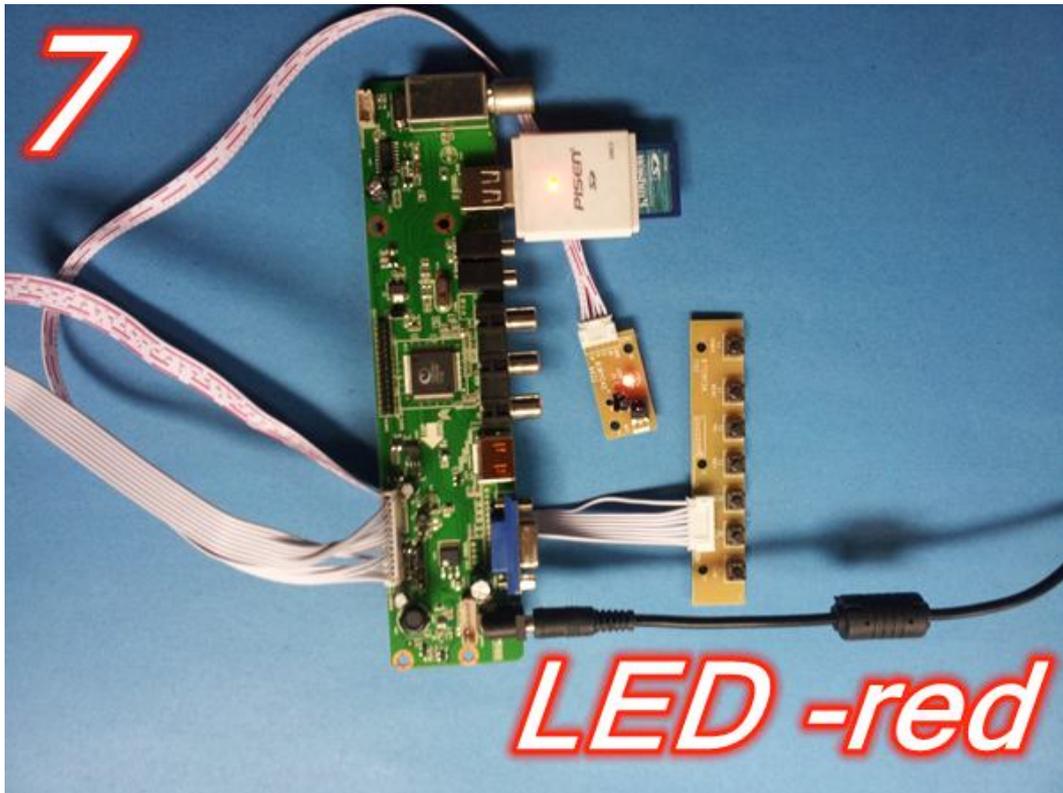


6. Wait a moment. You will see the Led becomes red and then becomes green. The Led will be flicker between red and green. The LED light



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is always in the blue after finishing the refresh of the firmware.



7. Unplug the power supply from the driver board. Then connect the



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LVDS cable and the LCD panel. Then plug the power to the power input again. Turn on the power by keyboard or Remote controller.

8. Then you will see the controller board can work with the LCD panel.



Chapter 4--Enter into Factory Mode and set LVDS Map number

If the LCD panel displays the image as below, the LVDS map should be changed. The operation only can be finished via the remote controller.



1. Press the “menu” button on the remote controller.



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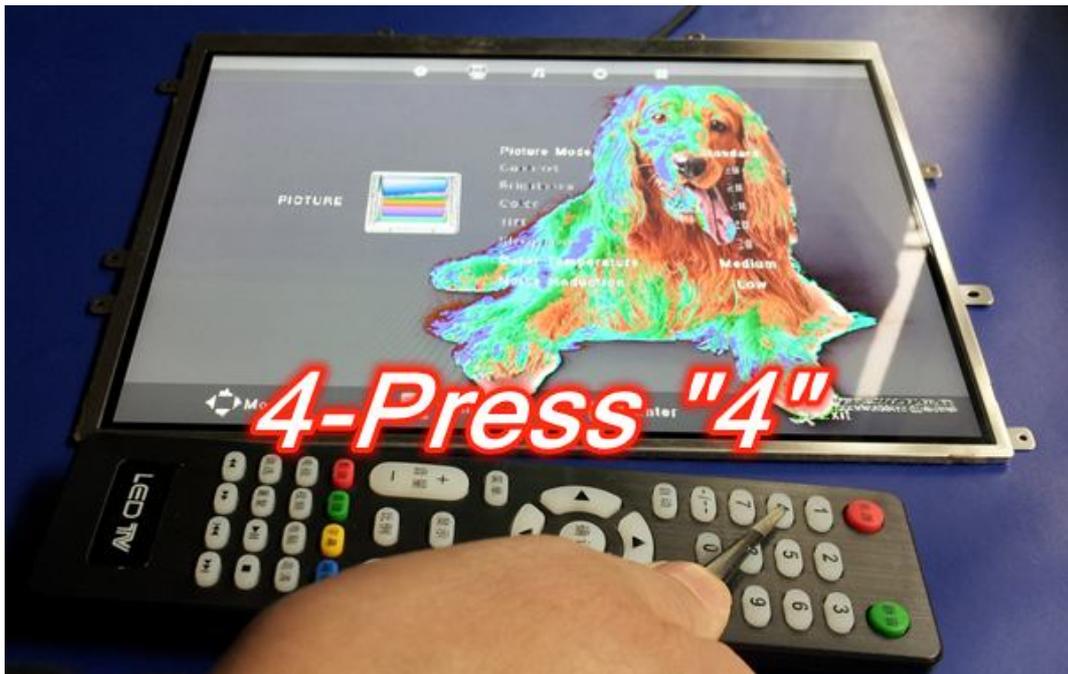


2. Then press number "1" "1" "4" "7" .





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3. The LCD panel will display the following image:



4. Press “up/down” on the remote controller so that the cursor moves to “LVDS Map”.



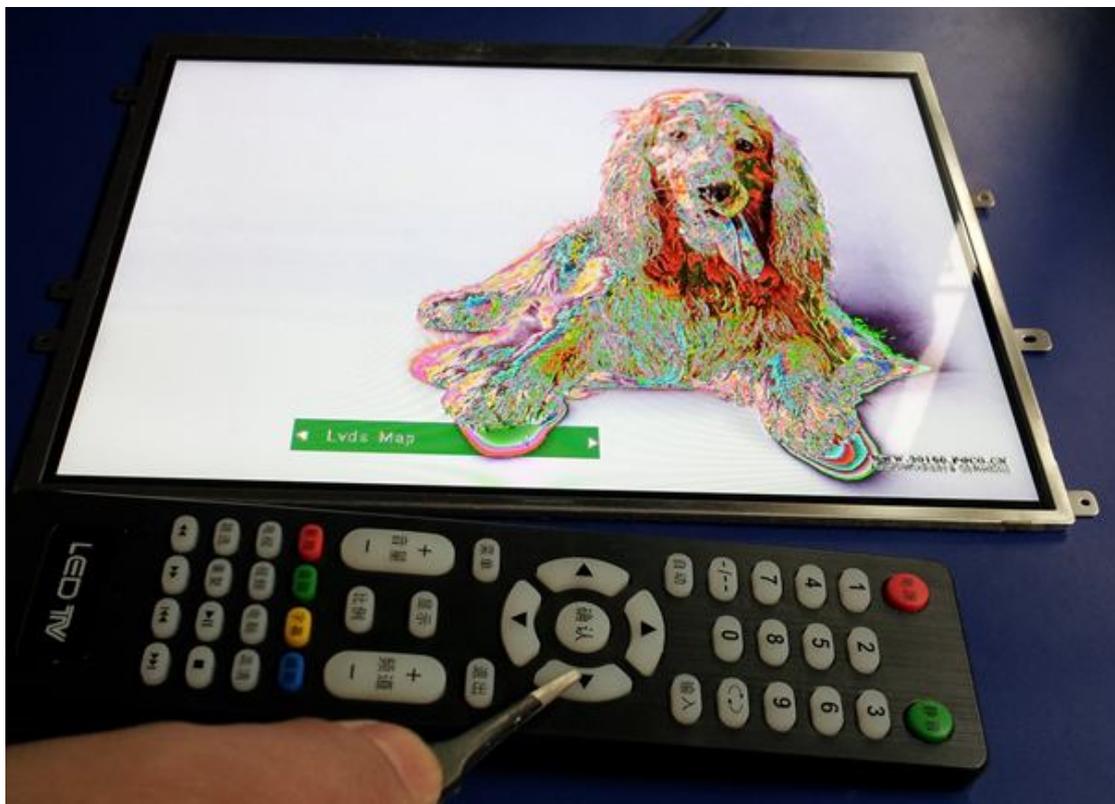
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5. Press “left/right--right” and go into LVDS Map. Then press “left/right” and change the LVDS Map number to the proper number, the LCD panel will go to the normal picture.



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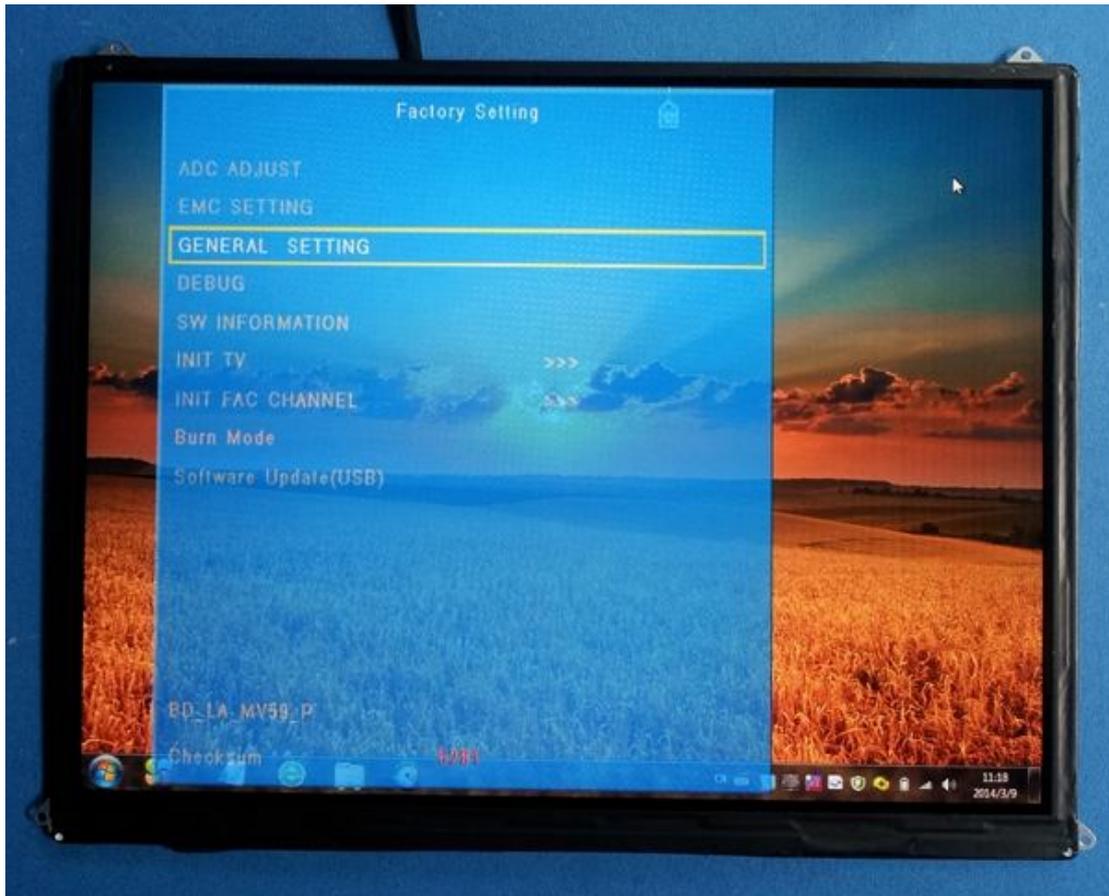
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Chapter 5--Mirror the image upside down

Please enter into “Factory setting” by referring to images in Chapter 4 first.

Then change the “MirrorEnable” value between “ON/OFF” by referring to the following images.

In order to rotate the image 180 degrees, please turn off the power and then turn on it after changing “MirrorEnable” value from ON to OFF or from OFF to ON.





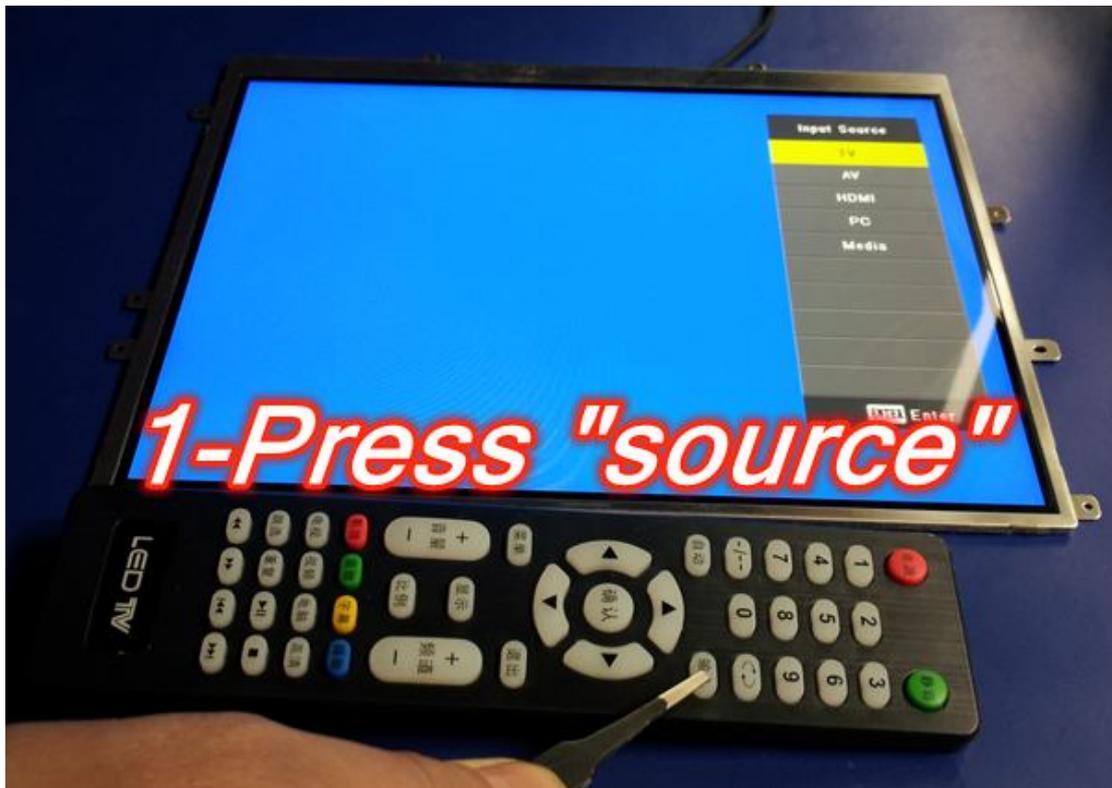
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Chapter 6--Change the input source via remote controller



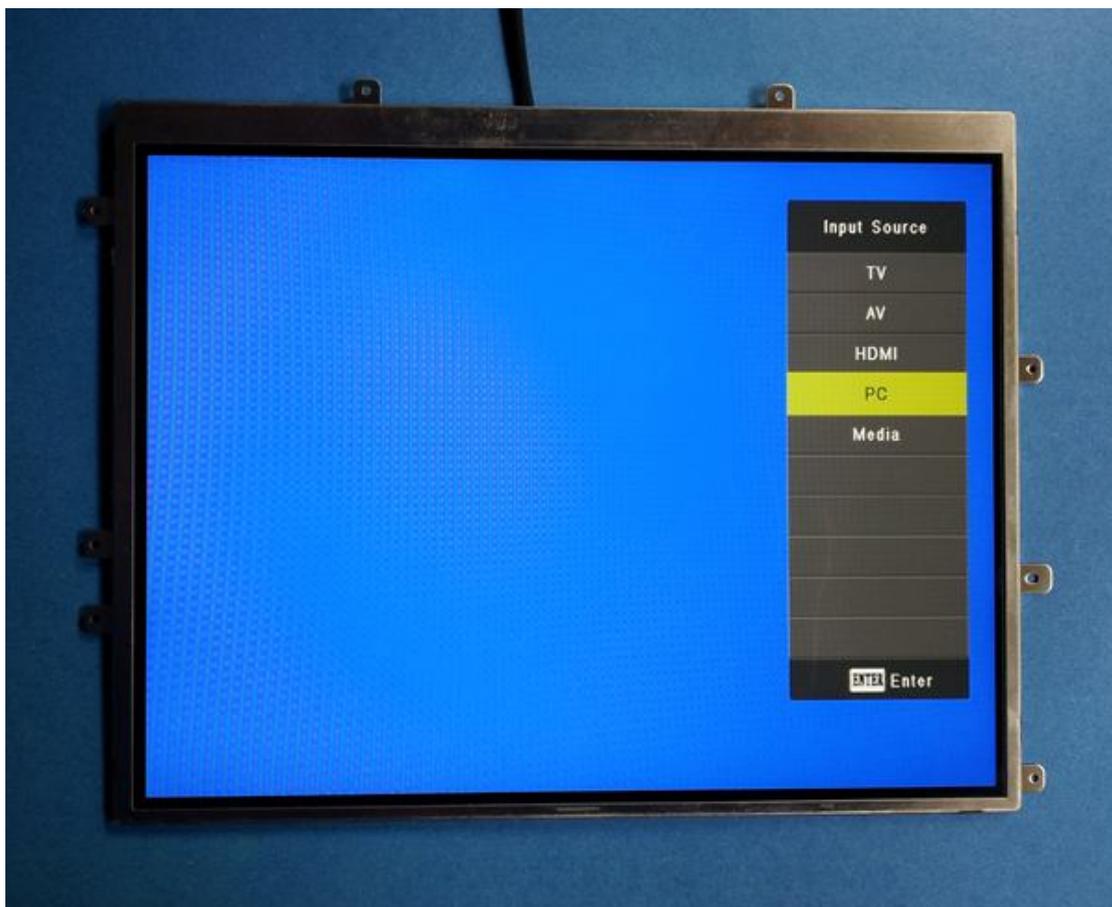
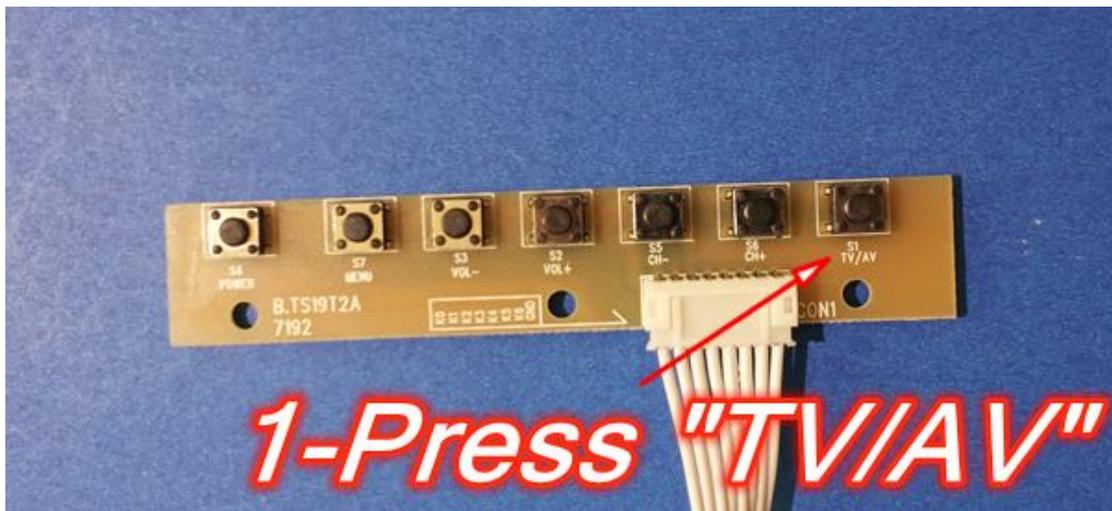


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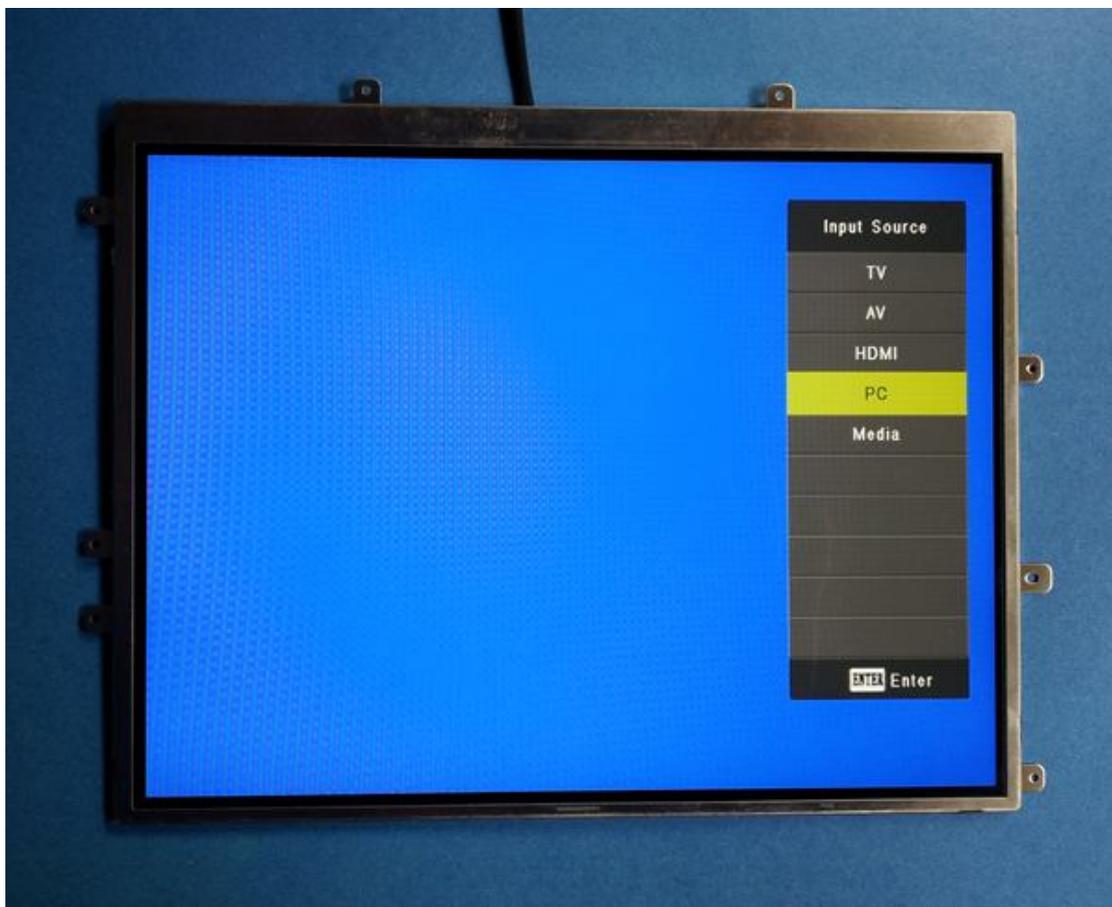


Chapter 7--Change the input source via keyboard



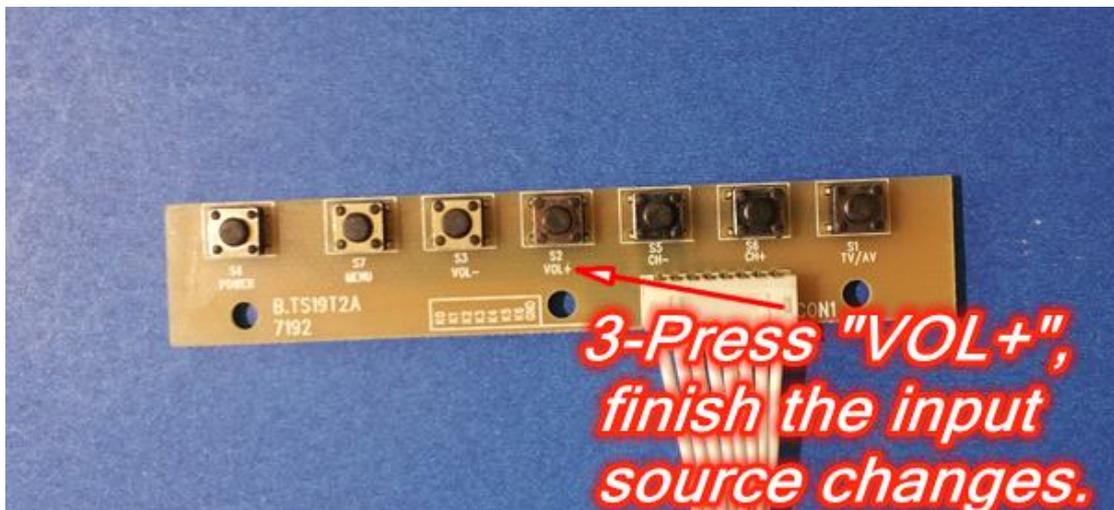
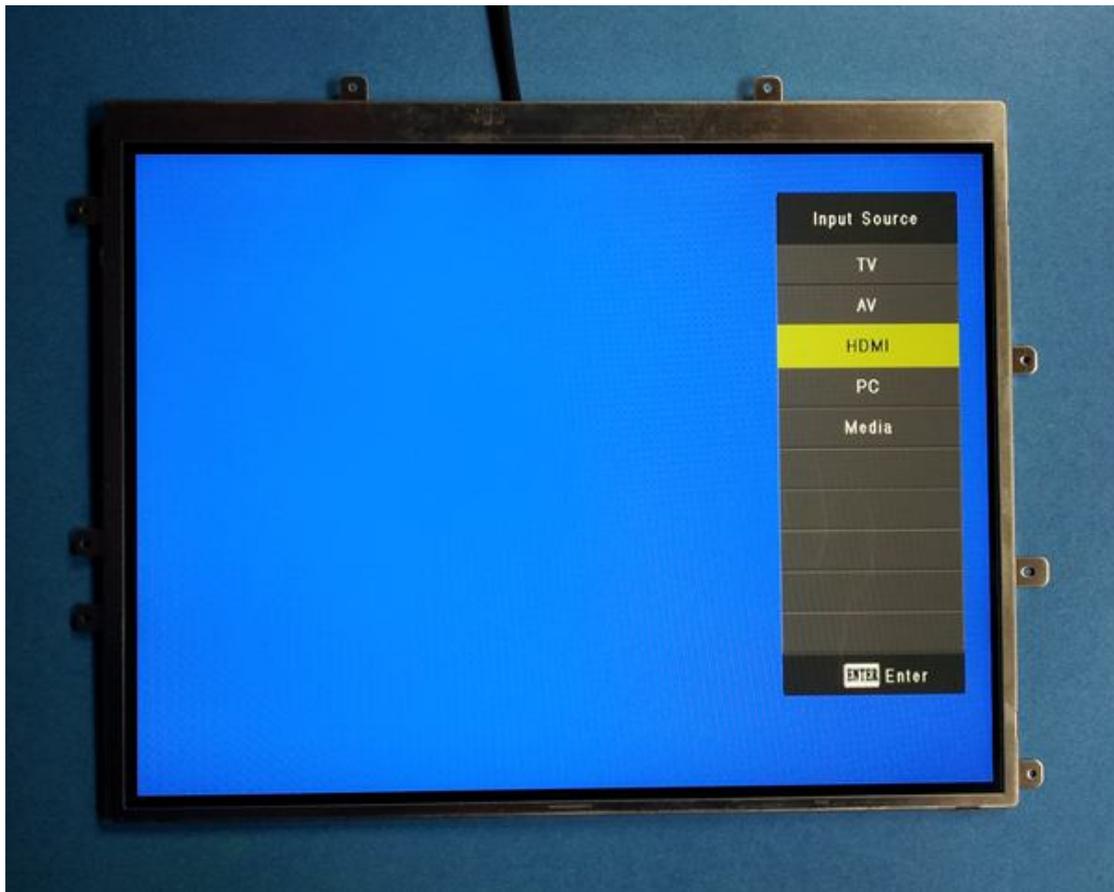


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Chapter 8--Troubleshooting

Question 1 – The power adapter requirement of the board.

POWER	Requirement	12V DC/12V(built)/12V,5V(built in)/12V,5V,5VSB(built in)
	To Panel	3.3V/5V/12V
	Management	Standby Power Consumption < 0.5W(Board Only)

The board voltage and the LCD voltage are 2 different parameters.

The board can be worked from +5V to +12V with 3.0A current.

Question 2 – The LCD panel voltage

The LCD voltage only can be supplied by the board's jumper with only +3.3V +5.0V +12.0V. Most of LCD panel works at +3.3V. Normally, the board's jumper has been jumped to +3.3V and please don't jump it again. Or else, the LCD will be damaged at +5.0V/+12.0V.

Question 3 – How to confirm all the connections are in good condition.

First of all, please do not input any signal cable.

Then power on the board via keyboard power ON/OFF button.

The following image can be shown on the LCD. That means the board kits and LCD are in good condition. Then you can start use it via plugging in the signal cable.



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If the blue image isn't shown on the LCD, there should be problems and please don't connect the signal cable to the board in order to save time. Please check the board power, the LVDS cable connection to board and to the LCD.