15″TFT LCD Colour Monitor

HUDSON4 150S5

Service
Service
Service

EPA POLLUTION PREVENTER

150S5FG/00
150S5FS/00
150S5FG/93
150S5FS/93
150S5FG/27
150S5FB/27
150B5CG/00
150B5CS/00
150B5CG/93
150B5CB/27

Service Manual

Horizontal frequencies
30 - 61 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING.

REFER TO BACK COVER FOR IMPORTANT SAFETY GUIDELINES

Published by BCU Monitor Printed in Taiwan Subject to modification Ⓢ Jan. 31 2004

GB 3138 106 10348

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Important Safety Notice

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Proper service and repair is important to the safe, reliable operation of all Philips Consumer Electronics Company** Equipment. The service procedures recommended by Philips and described in this service manual 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. Philips 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, Philips has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Philips must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

** Hereafter throughout this manual, Philips Consumer Electronics Company will be referred to as Philips.

WARNING

Critical components having special safety characteristics are identified with a ⚠ by the Ref. No. in the parts list and enclosed within a broken line*
(where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views.

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 Philips. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

* *Broken Line* ▬ ▪ ▬ ▪ ▬ ▪

FOR PRODUCTS CONTAINING LASER :

DANGER- Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION- The use of optical instruments with this product will increase eye hazard.

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 MANUAL.

Take care during handling the LCD module with backlight unit

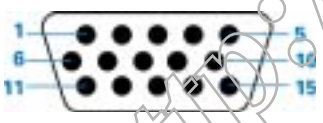
- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

Technical Specifications

LCD
Type NR. : LG panel LM150*08
Outline Dimensions : 326.5(H) * 253.5(V) *11.2(D)mm
Pitch (mm) : 0.297 x 0.297 mm
Color pixel arrangement : RGB stripe arrangement
Display surface : Anti-glare with hard coating(3H)
Number of color : 6 bits with FRC, 16M colors
Backlight : CCFL edge-light system
Active area (W x H) : 304.1x228.1mm(15.0 diagonal)
Viewing angle(CR ≧10) : Vertical 100 degree,
Horizontal 130 degree typical.
Contrast ratio : 400 typical.
Luminance of white : 250 Nits typical

Type NR. : CPT panel CLAA150XP01
Dimensions : 326.5(H)*253.5(V)*11.0(D) mm
Pitch (mm) : 0.297 x 0.297 mm
Color pixel arrangement : RGB stripe arrangement
Display surface : Anti-glare with hard coating(3H)
Number of color : 6 bits with FRC, 16M colors
Backlight : CCFL edge-light system
Active area(W x H) : 304.1 x 228.1mm (15.0□ Diagonal)
Viewing angle(CR≧10) : Vertical 120 degree, Horizontal 140 degree typical.
Contrast ratio : 500 typical.
Luminance of white : 250 Nits typical Scanning
frequencies Hor.: 30 61KHz Ver.: 56 76 Hz
Video dot rate : <79 Mhz
Power input : 90 264 Vac, 50/60 3 Hz
Power consumption : < 2027 W, (typ : 17W)
: AC input power < 1W when DC switch is off.
Dimensions : 386W 342W x 364H x 170180D (Incl. Pedestal)
Weight : 2.73Kg
Function:
Signal input:
Analog R/G/B separate inputs,
H/V sync separated,
Composite (H+V) TTL level,
SOG sync
Ambient temperature: 5 ~ 40°C

D-Sub Cable pin assignment:



PIN No.	SIGNAL
1	Red
2	Green/SOG
3	Blue
4	Sense (GND)
5	Test (GND)
6	Red GND
7	Green GND
8	Blue GND
9	+5V
10	Sync GND
11	Sense (GND)
12	Serial data (SDA)
13	H/H+V sync
14	V-sync
15	Data clock (SCL)

Horizontal scanning
Sync polarity : Positive or Negative
Scanning frequency : 30 - 61 Khz

Vertical scanning
Sync polarity : Positive or Negative
Scanning frequency : 56 - 76 Hz

Power input connection
Power cord length : 1.82.0 M
Power cord type : 3 leads power cord with protective earth plug.

Power management
The power consumption and the status indication of the set with power management function are as follows,

STATUS	H-sync	V-sync	Video	Power	LED/Remark
On	On	On	Active	<20 W	Green / Without Audio
Stand-by	Off	On	Blanked	<1W	Amber
Suspend	On	Off	Blanked	<1W	Amber
Off	Off	Off	Blanked	<1W	Amber
DC Power off			N / A	<1W	LED Off

Resolution

Factory preset modes (* 140 modes)

Mode	Resolution	H. freq. / V. freq	Standard
1.	640 x 350	31.469Khz/70.087Hz	VGA
2.	720 x 400	31.469Khz/70.087Hz	VGA.
3.	640 x 480	31.469Khz/59.940Hz	VGA
4.	640 x 480	35.000Khz/66.667Hz	Macintosh
5.	640 x 480	37.861Khz/72.809Hz	VESA
6.	640 x 480	37.500Khz/75.000Hz	VESA
7.	800 x 600	35.156Khz/56.250Hz	VESA
8.	800 x 600	37.879Khz/60.317Hz	VESA
9.	800 x 600	48.077Khz/72.188Hz	VESA
10.	800 x 600	46.875Khz/75.000Hz	VESA
11.	832 x 624	49.700Khz/75.000Hz	Macintosh
12.	1024 x 768	48.363Khz/60.004Hz	VESA
13.	1024 x 768	56.476Khz/70.069Hz	VESA
14.	1024 x 768	60.023Khz/75.029Hz	VESA

Installation

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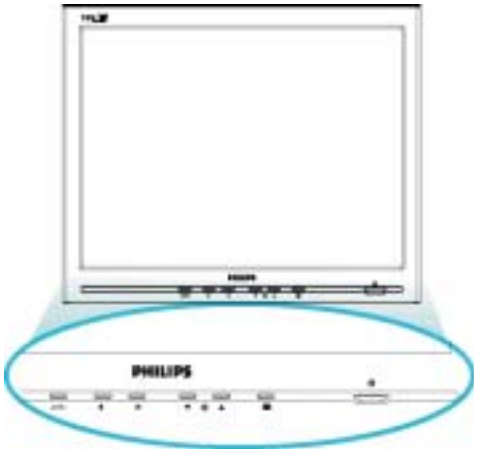
Front View Product Description



UP and DOWN buttons are used when adjusting the OSD of your monitor.

LEFT and RIGHT buttons, like the UP and DOWN buttons, are also used in adjusting the OSD of your monitor.

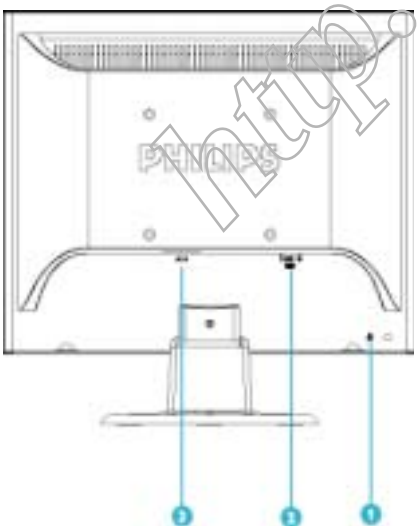
BRIGHTNESS hotkey. When the UP and DOWN arrow buttons are pressed, the adjustment controls for the BRIGHTNESS will show up.

OK button which when pressed will take you to the OSD controls.

POWER button switches your monitor on.

AUTO Automatically adjust the horizontal position, vertical position, phase and clocksetting.

Rear View



1	Kensington anti-thief lock
2	VGA input
3	AC power input

Connecting your monitor

1) Plug the power cord into monitor Firmly.

2) Clip the power cord and signal cable together for cable Management

Note: If you use an Apple Macintosh, you need to connect the special Mac adapter to one end of the monitor signal cable.

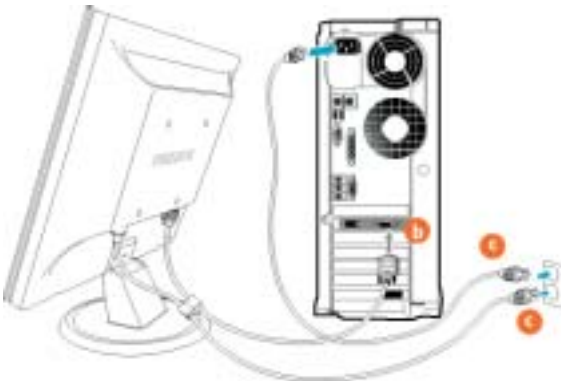
3) Connect to PC

(a) Turn off your computer and unplug its power cable.

(b) Connect the monitor signal cable to the video connector on the back of your computer.

(c) Plug the power cord of your computer and your monitor into a nearby outlet.

(d) Turn on your computer and monitor. If the monitor displays An image, installation is complete.



On Screen Display

On-Screen Display

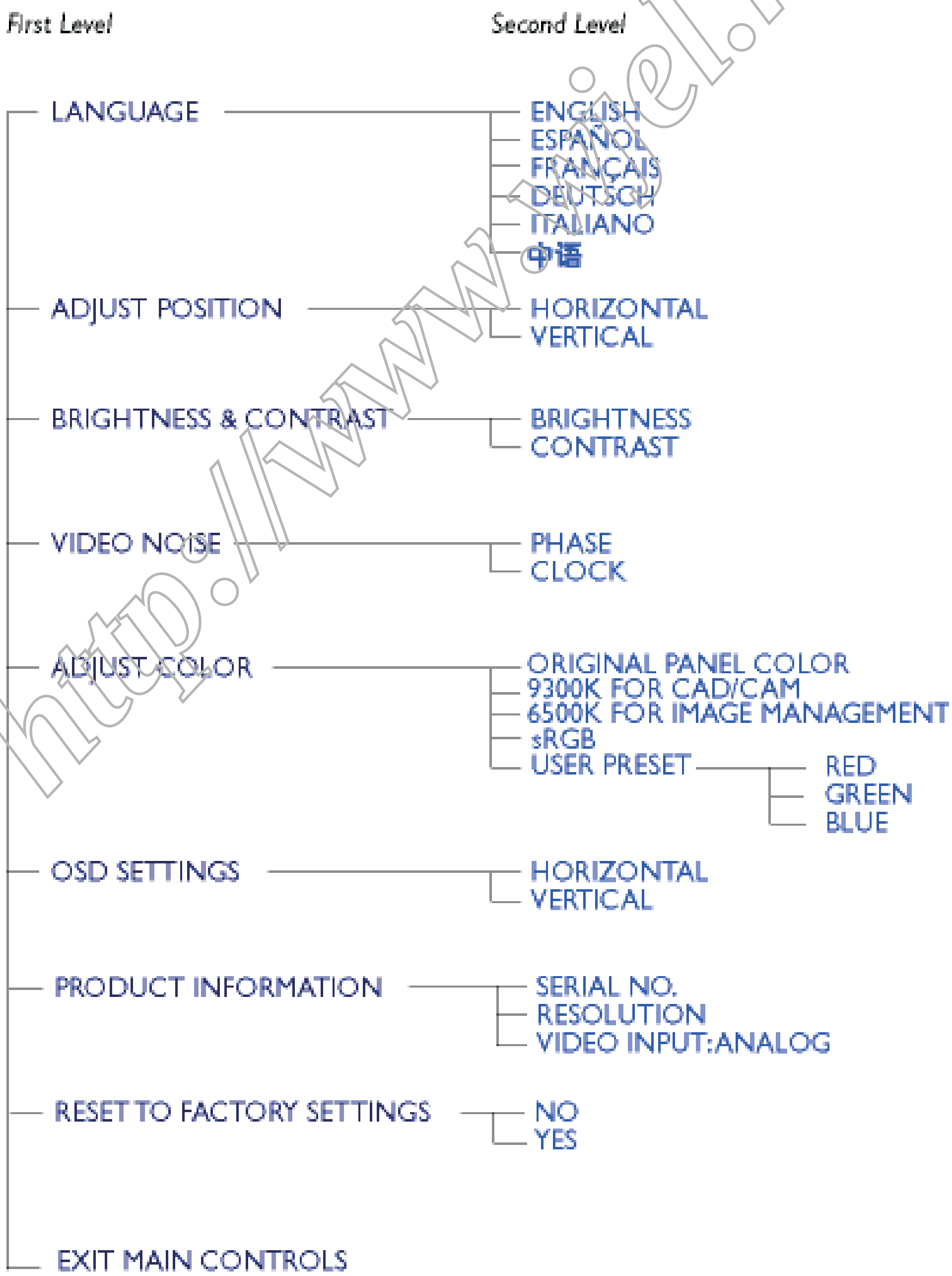
This is a feature in all Philips LCD monitors. It allows an end user to adjust screen performance of the monitors directly through an on-screen instruction window. The user interface provides user-friendliness and ease-of-use when operating the monitor.

Basic and simple instruction on the control keys.

When you press the OK button on the front control of your monitor, the On-Screen Display (OSD) Main Controls window will pop up and you can then start making adjustments to your monitor's various features. Use the ◀ ▶ or ▲ ▼ the keys to make your adjustments.

The OSD Tree

Below is an overall view of the structure of the On-Screen Display. You can use this as a reference when you want to work your way around the different adjustments later on.



Warning message table

Item	Attention Signals	Display Time	Condition	Attention off
1	CANNOT DISPLAY THIS VIDEO MODE, CHANGE COMPUTER DISPLAY INPUT TO 1024X768 @ 60HZ	30 mins	This warning appears when the input signal from your computer is not in a standard video mode or is out of the monitor's scanning range. After 30 mins, monitor enters sleeping mode.	No
2	NO VIDEO INPUT	30 mins	This message appears when there is no signal input but with cable while AC or DC while power on. After 30 mins, monitor enters sleeping mode.	Yes Show floating menu ATTENTION SIGNAL OFF
3	CHECK CABLE CONNECTION	30 mins	This message appears when a signal cable is disconnected while monitor is working. After 30 mins, monitor enters sleeping mode.	Yes Show floating menu ATTENTION SIGNAL OFF
4	ENTERING SLEEP MODE	3 secs	This message appears when monitor is about to enter power saving mode.	No
5	WAITING FOR AUTOMATIC ADJUSTMENT	till auto adjustment finished	This message is displayed when the auto adjustment button is pressed. It disappears when automatic adjustments are completed.	No
6	USE 1024 X 768 FOR BEST RESULT	On top of OSD main menu	The message will show up at the top of the OSD main menu in red color when the input resolution is not the 1024x768.	Yes
7	OSD MAIN CONTROLS LOCKED	3 secs / or Till OSD MAIN CONTROLS UNLOCKED appear	This message will appear 3 seconds to indicate the OSD MAIN CONTROLS status when to lock or un-lock it by pressing MENU(OK) button for more than 10 seconds while there is video input from PC. This function provides the alternative that user can lock all the OSD main control in case user don't want the FOS performance setting to be changed, for instance, during commercial exhibition.	No function when push 10 secs (If OSD lock then attention off, not any message and only attention on)
8	OSD MAIN CONTROLS UNLOCKED	3 secs	This message will appear 3 seconds to indicate the OSD MAIN CONTROLS status when to un-lock it by pressing MENU(OK) button for more than 10 seconds while there is video input from PC.	No function when push 10 secs
9	ATTENTION SIGNAL ON ATTENTION SIGNAL OFF	3 secs 3 secs	This message will appear 3 seconds to indicate the attention signals in ON or OFF status when to switch this function on or off by pressing the AUTO button for more than 10 seconds while at no video input from PC.	Yes
10	THIS IS 85HZ OVERSCAN, CHANGE COMPUTER DISPLAY INPUT TO 1024X768@60HZ	10 mins	This message will appear 5 seconds in every 60 seconds for 10 minutes when the input of PC video timing is at 85Hz mode. Remark: AUTO is still functional in this mode	No
11	the window of OSD MAIN CONTROLS	60 secs	This message will appear when the OK button is pressed.	Yes
12	the window of BRIGHTNESS	60 secs	This message will appear when the BRIGHTNESS button is pressed.	Yes
13 (Not for 150S project)	SELECTED INPUT NOT AVAILABLE	5 secs	When just one input (analog or digital), press input switch or hot key, then after show this warning message 5 sec, return to original input.	TBD

OSD Lock/Unlock, Aging Mode

Front control panel

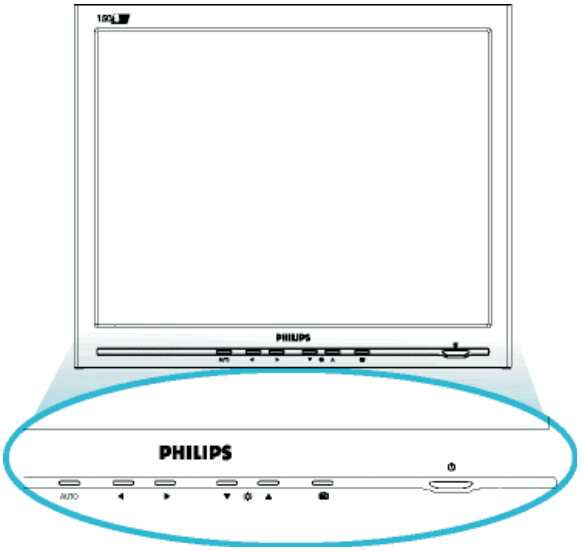


Fig. 1

To Lock/Unlock OSD function (User Mode)

The OSD function can be locked by pressing "OK" button(1) for more than 10 seconds, the screen shows following windows for 3 seconds. Everytime when you press "AUTO" or "OK" button, this message appears on the screen automatically.

ATTENTION
OSD MAIN CONTROLS LOCKED

Fig. 2

Unlock OSD function:
Locked OSD function can be released by pressing"OK" button for more than 10 seconds again.

ATTENTION
OSD MAIN CONTROLS UNLOCKED

Fig. 3

NO VIDEO INPUT
This screen appears if there is no video signal input. Please check that the signal cable is properly connected to the video card of PC and make sure PC is on.

ATTENTION
NO VIDEO INPUT

CANNOT DISPLAY THIS VIDEO MODE..
This screen warns when the input frequency from the computer is not a standard video mode or out of the monitor's scanning range. Please change the display mode of the operating software in the computer(i.e. Windows) to 1024 x 768@ 60Hz for best display results.

ATTENTION
CANNOT DISPLAY THIS VIDEO MODE, CHANGE COMPUTER DISPLAY INPUT TO 1024 x 768@60HZ

WAIT FOR AUTOMATIC ADJUSTMENT
This screen appears when you press the **"AUTO"** buttons at the same time . It will disappear when the monitor is properly adjusted.

ATTENTION
WAITING FOR AUTOMATIC ADJUSTMENT

Access Aging. Mode

Step 1: Turn off LCD monitor, and disconnect Interface Cable between Monitor and PC.

Step 2 :
[Push AUTO " AUTO " & OK " OK " buttons at the same time and hold it] + [Press power " ⏻ " button untill comes out "AGING screen"] => then release all buttons.

Bring up :

After 15 seconds, bring up :

After 15 seconds, bring up :

After 15 seconds, bring up :

---
repeatly
Connect signal cable again => go back to normal display.

Troubleshooting

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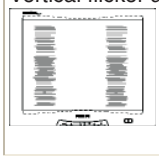
This page deals with problems that can be corrected by the user. If the problem still persists after you have tried these solutions, contact your nearest Philips dealer.

Common Problems

Having this problem?	Check these items
No Picture (Power LED not lit)	Make sure the power cord is plugged into the power outlet and into the back of the monitor.
No Picture (Power LED is amber)	Make sure the computer is turned on. Make sure the signal cable is properly connected to your computer. Check to see if the monitor cable has bent pins. The Energy Saving feature may be activated
Screen says 	Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Set-Up Guide). Check to see if the monitor cable has bent pins. Make sure the computer is turned on.

Imaging Problems

Display position is incorrect	Press "MENU" key to select "ADJUST POSITION" control at PC mode or press "MENU" and "DOWN" hot keys at front control together to automatically adjust the position.
Image vibrates on the screen	Check that the signal cable is properly connected to the graphics board or PC.
Vertical flicker appears 	Press "MENU" and "DOWN" hot keys at front control together to automatically adjust at PC mode. Press "MENU" key to select "AUTO".
Horizontal flicker appears  	Press "MENU" and "DOWN" hot keys at front control together to automatically adjust at PC mode. Press "MENU" key to select "AUTO".
The screen is too bright or too dark	Adjust the contrast and brightness in OSD Main Controls. (The backlight of the product has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.)
An after-image appears	If an image remains on the screen for an extended period of time, it may be imprinted in the screen and leave an afterimage This usually disappears after a few hours.

An afterimage remains after the power has been turned off.	This is characteristic of liquid crystal and is not caused by a malfunction or deterioration of the liquid crystal. The afterimage will disappear after a period of time.
Green, red, blue, dark and white dots remain.	The remaining dots are normal characteristic of the liquid crystal used in today□s technology.
Visible brighter spots in dark scenes	The brighter spots are normal when the ambient light is very low. Increase the ambient light to make the spots invisible

Factory mode

Front control panel

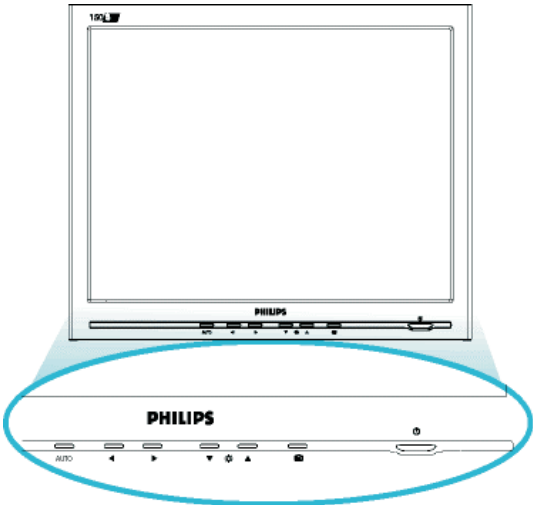


Fig. 1

Access Factory Mode

How to Get into Factory Mode Menu

Step 1 :
Turn off monitor.

Step 2 :
[Push AUTO " AUTO " & OK " OK " buttons at the same time and hold it] + [Press power " ⏻ " button untill comes out "Windows screen"] => then release all buttons.

Step 3 :
Press OK " OK " button, bring up Factory mode indication as shown in Fig 2.

Fig. 2
Factory mode indicator

Factory menu

Cursor can move on gray color area

(PS: The Offset R G B function can be used on reduce or eliminate snowy noise on the background when the resolution of video signal is 1024 X 768 vertical 60Hz. Slightly increase or decrease the value until snowy noise completely disappear.)

Hudson 150S5 V203 20030418										
SUB - BRI :	170	255								
SUB - CON :	100	130	160							
9300K	R	Xxx	G	xxx	B	xxx				
6500K	R	Xxx	G	xxx	B	xxx				
SRGB	R	Xxx	G	xxx	B	xxx	B	255	C	128
OFFSET2	R	Xxx	G	xxx	B	xxx				
GAIN	R	Xxx	G	xxx	B	xxx	M	255	m	200
AUTO-SUB		OK!	OSDTIMER			60				
			IDX :			7				
OFFSET1	R	Xxx	G	xxx	B	xxx				
SCALER:ADD:			VAL:	READ		WRITE				
PANEL:		LG								
	1024x768 48.3KHz @60Hz									

Fig. 3

SUB-BRI : Brightness value range(Min Max)

SUB-CON :Contrast value range(Min Mid Max)

SRGB-B : Brightness of sRGB

SRGB-C : Contrast of sRGB

Gain-m :Minimum value of User Gain

Gain-M :Maximum value of User Gain

AUTO-SUB :To do Auto color function when push Menu Key in white pattern

OSDTIMER :OSD time out control(sec)

IDX :Limit current of inverter (CPT: 28)(LG: 7)

Panel Type :PLS reference section 4

SCALER :Read/Write scaler register

Panel :CPT (CPT panel)
LG (LG.Philips panel)

SUB — CON:

Contrast adjustment (Sub-Contrast). Use this menu item to adjust the contrast gain of pre-amp ranges from 0 to 255.

9300K R G B
6500K R G B

Color temperature gain adjustment. Use these menu items to adjust the RGB gains of pre-amp for different color temperatures, ranges from 0 to 255.

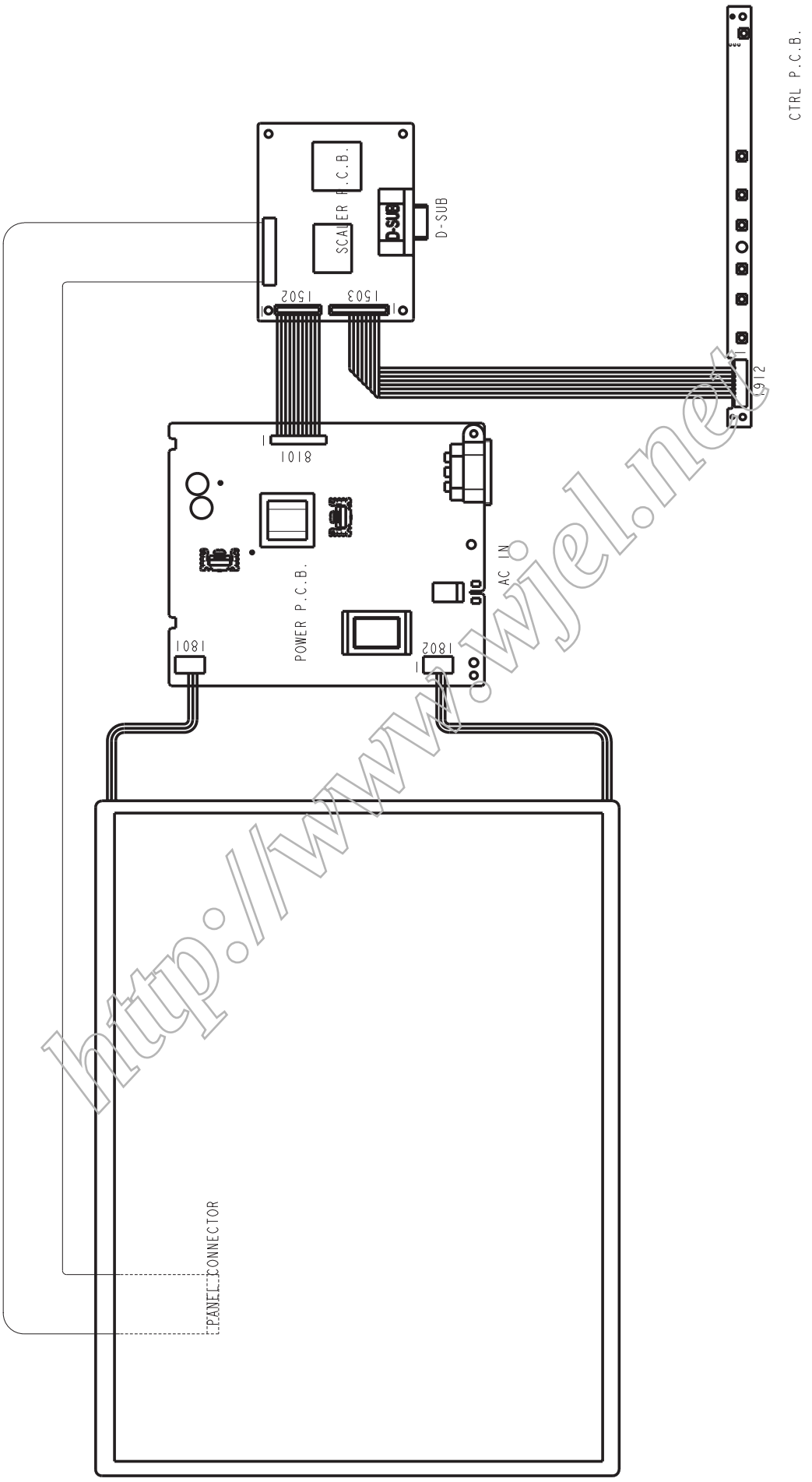
OFFSET R G B

Sub-Brightness adjustment. Use this menu item to adjust the brightness level (DC-level) of pre-amp range from 0 to 255.(R/G/B ANALOG DC -level).

GAIN R G B

R/G/B GAIN adjustment. Use this menu item to adjust the R/G/B (GAIN) of Amp. range from 0 to 255.(R/G/B ANALOG GAIN Values).

Wiring Diagram



Mechanical Instructions

Front view

Fig. 1

Back view

Fig. 2

Step 1. Remove the base as shown in Fig .3
- Remover the three screws

Fig. 3

Step 2. Remove the Front Bezel
- Remove the one screw as shown in Fig. 4
- Use the thin "I" type screw driver to open the clicks as shown in Fig.5.
- Remove the Front Bezel .

Fig. 4

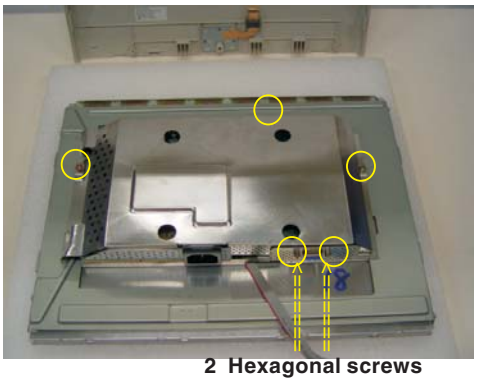
Fig.5

Step 3.Remove the Back cover
- Remove the two screws as shown in Fig, 6.
- Remove the Cable in Control board as shown in Fig. 6.
- Use the thin "I" type screw driver to open the clicks as shown in Fig. 7.
- Remove the Back cover.

Fig.6

Fig.7

Step 4.Remove the Scaler and Power board
- Remove the three screws as shown in Fig. 8 .
- Disconnect DVI and D-SUB hexagonal screws as shown in Fig. 8.
- Remove the matel frame board as shown in Fig. 9.



2 Hexagonal screws

Fig.8

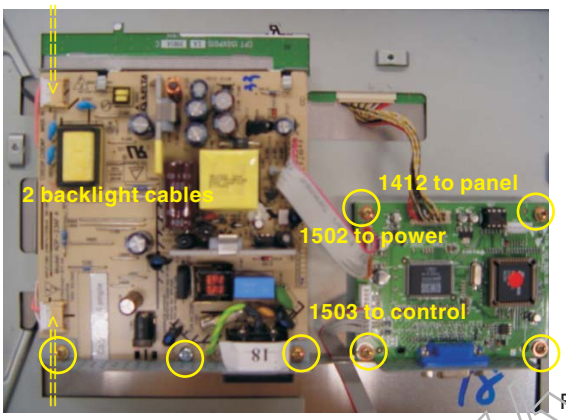


Fig.9

Step 5. Remove the scaler and power board .
- Remove the seven screws as shown in Fig. 9.
- Disconnect the 1412,1502 ,1503 and 2 backlight cables as shown in Fig9 .
- Remove the scaler and power board as shown in Fig10.

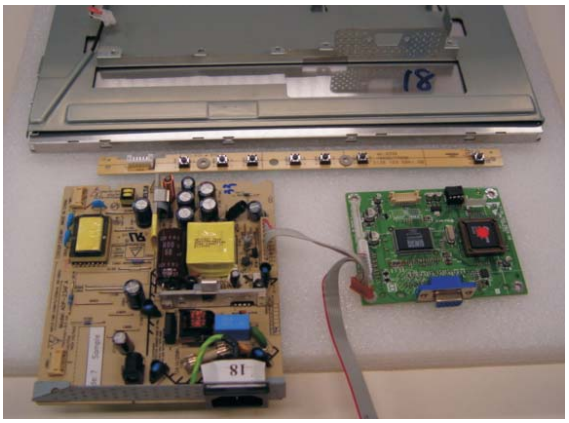
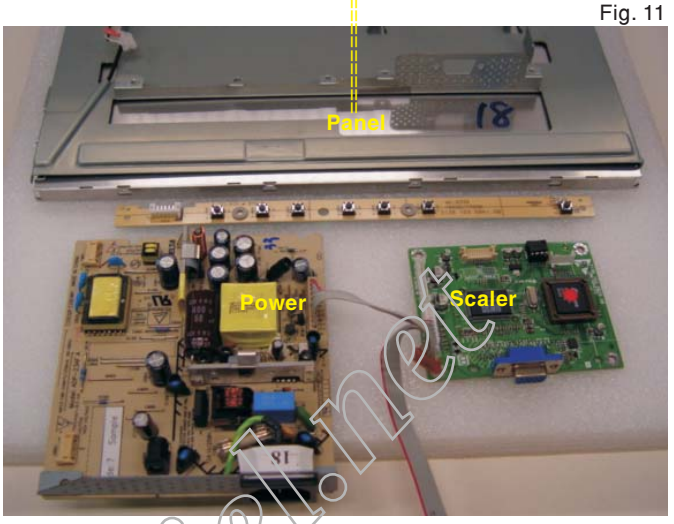


Fig. 10

1050 823827714731TFT-LCD MOD LM150X08-A4
1050 823827714721TFT-LCD MOD CLAA150XP01

Fig. 11



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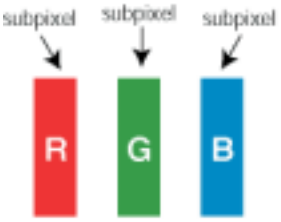
In warranty, it is not allowed to disassembly the LCD panel, even the backlight unit defect.
Out of warranty, the replacment of backlight unit is a correct way when the defect is cused by backlight (CCFL,Lamp).

****

Definition of Pixel Defects

Philips' Flat Panel MonitorsPixel Defect Policy

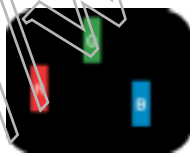
Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practise stringent quality control. However, pixel or sub pixel defects on the TFT LCD panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order to qualify for repair or replacement under warranty, the number of pixel defects on a TFT LCD panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub pixels on a 15" XGA monitor may be defective. Furthermore, Philips sets even higher quality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



Pixels and Sub pixels
A pixel, or picture element, is composed of three sub pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub pixels of a pixel are lit, the three colored subpixels together appear as a single white pixel. When all are dark, the three colored sub pixels together appear as a single black pixel. Other combinations of lit and dark sub pixels appear as single pixels of other colors.

Types of Pixel Defects
Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.
Bright Dot Defects appear as pixels or sub pixels that are always lit or 'on'. These are the types of bright dot defects:

-One lit red, green or blue sub pixel

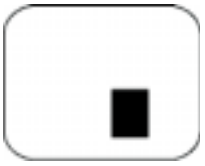


Two adjacent lit sub pixels:
- Red + Blue = Purple
- Red + Green = Yellow
- Green + Blue = Cyan (Light Blue)

-Three adjacent lit sub pixels (one white pixel)

Black Dot Defects
Appear as pixels or sub pixels that are always dark or 'off'. These are the types of black dot defects:

One dark sub pixel



Two or three adjacent dark sub pixels

Proximity of Pixel Defects
Because pixel and sub pixels defects of the same type that are near to one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects.

Pixel Defect Tolerances

In order to qualify for repair or replacement due to pixel defects during the warranty period, a TFT LCD panel in a Philips flat panel monitor must have pixel or sub pixel defects exceeding the tolerances listed in the following tables.

BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL	
MODEL	150B5	150S5
1 lit subpixel	0	4 or fewer
2 adjacent lit subpixels	0	2 or fewer
3 adjacent lit subpixels (one white pixel)	0	0
Distance between two bright dot defects*	0	15 mm or more
Total bright dot defects of all types	0	4 or fewer

BLACK DOT DEFECTS	ACCEPTABLE LEVEL	
MODEL	150B5	150S5
1 dark subpixel	4 or fewer	4 or fewer
2 adjacent dark subpixels	1 or fewer	2 or fewer
3 adjacent dark subpixels	0	0
Distance between two black dot defects*	15 mm or more	15 mm or more
Total black dot defects of all types	4 or fewer	4 or fewer

TOTAL DOT DEFECTS	ACCEPTABLE LEVEL	
MODEL	150B5	150S5
Total bright or black dot defects of all types	4 or fewer	5 or fewer

Note: 1 or 2 adjacent sub pixel defects = 1 dot defect

All Philips monitors are ISO13406-2 Compliant

Electrical Instructions

Go to cover page

1. General points

1.1 During the test and measuring, supply a distortion free AC mains voltage to the apparatus via an isolated transformer with low internal resistance.

1.2 All measurements mentioned hereafter are carried out at a Normal mains voltage (90 - 132 VAC for USA version, 195 -264 VAC for EUROPEAN version, or 90 - 264 VAC for the model with full range power supply, unless otherwise stated.)

1.3 All voltages are to be measured or applied with respect to ground,unless otherwise stated.
Note: don't use heat-sink as ground.

1.4 The test has to be done on a complete set including LCD panel after 30 minutes warm-up at least in a room with temperature of 25 +/- 5 degree C.

1.5 All values mentioned in this test instruction are only applicable of a well aligned apparatus, with correct signal.

1.6 The letters symbols (B) and (S) placed behind the test instruction denotes
(B): carried out 100% inspection at assembly line
(S): carried out test by sampling

1.7 The white balance (color temperature), has to be tested in subdued lighted room.

1.8 Repetitive power on/off cycle are allowed except it should be avoided within 6 sec.

2. Input signal

2.1 Signal type
Video: 0.7 Vp-p linear, positive polarity
Sync. : TTL level, separate, positive or negative polarity
Signal source: pattern generator format as attachment
Reference generator: Quantum 802BT or VTG 1250

2.2 Allowed signal mode specified

PRESET VIDEO RESOLUTION

Dot rate (MHz)	H.freq (KHz)	Mode	Resolution	V.freq (Hz)
25.175	31.469	VGA	640 * 350	70.087
28.322	31.469	VGA	720 * 400	70.087
25.175	31.469	VGA	640 * 480	59.940
30.240	35.000	MACINTOSH	640 * 480	66.667
31.500	37.861	VESA	640 * 480	72.809
31.500	37.500	VESA	640 * 480	75.000
36.000	35.156	VESA	800 * 600	56.250
40.000	37.879	VESA	800 * 600	60.317
50.000	48.077	VESA	800 * 600	72.188
49.500	46.875	VESA	800 * 600	75.000
57.300	49.700	MACINTOSH	832 * 624	75.000
65.000	48.363	VESA	1024 * 768	60.004
75.000	56.476	VESA	1024 * 768	70.069
78.750	60.023	VESA	1024 * 768	75.029

3. AC Adaptor

3.1 Setup the AC I/P at 90VAC, and Output DC loading at 12V 1.6 Amp, 3V3 1Amp, The DC output voltages are 3.3V 0.16V DC , and 12VDC (+11V ~ 16 V)

4. Display Adjustment

4.1 Auto color adjustment (B)
Apply a 640 * 480 / 60Hz signal with 16 level grey test pattern, set brightness control at 100%, and contrast control at 50%. Adjust the R. G. B offset, and gain to calibrate the color smoothly and 64-grey level distinguishable.

4.2 Color temperature adjustment (B)
Apply a 1024 * 768 , 48.36kHz / 60Hz signal with white Pattern. Set brightness control at 100%, and contrast control at 50%.
Adjust the R.G. B gain in factory setting to reach special color temperature on center of screen.
The 1931 CIE chromaticity (X, Y) co-ordinates shall be:

	9300°K	6500°K
x (center)	0.283 ± 0.005	0.313 ± 0.005
y (center)	0.297 ± 0.005	0.329 ± 0.005

Use Minolta CA-110 for color coordinates and luminance check. Luminance is > 200 nits in the center of the screen at original panel color.

4.3 Adjustment of sRGB
Apply a 1024*768 / 60Hz signal with white pattern, set brightness control at 100%, and contrast control at 50%. Adjust the R, G, B Sub-Gain, for the screen center, the 1931 CIE chromaticity (X, Y) co-ordinates shall be;

	sRGB
x(center)	0.313 ± 0.005
y(center)	0.329 ± 0.005
Ynits	180 ± 10

4.4 EEPROM presetting (B)
After finishing all the adjustment, set:
Brightness control to 100%
Contrast control to 50%
OSD position at middle of screen
COLOR ADJUST to 6500K

Warning and Notes

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠ .

2. In order to prevent damage to ICs and transistors, all high-voltage flash-overs must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is **0 V** (after approximately 30 seconds).

3. **ESD**
All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the ground of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the AC Power voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube panel.

6. It is recommended that saferty goggles be worn when replacing the picture tube.

7. When making adjustments,use plastic rather than metal tools. This will prevent any short-circuit or the danger of a circuit becoming unstable.

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

9. Together with the defleciton unit, the picture tube is used as an integrated unit. Adjustment of this unit during repair is not recommended.

10. After repair, the wiring should be fastened in place with the cable clamps.

11. All units that are returned for service or repair must pass the original manufactures safety tests.

Notes

1. The direct voltages and waveforms are average voltages. They have been measured using the Service test software and under the following conditions :
   - Mode : 640 * 480 (31.5kHz / 60Hz)
   - Signal pattern : grey scale
   - Adjust brightness and contrast control for the mechanical mid-position (click position)

2. The picture tube panel has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

3. The semiconductors indicated in the circuit diagram(s) and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

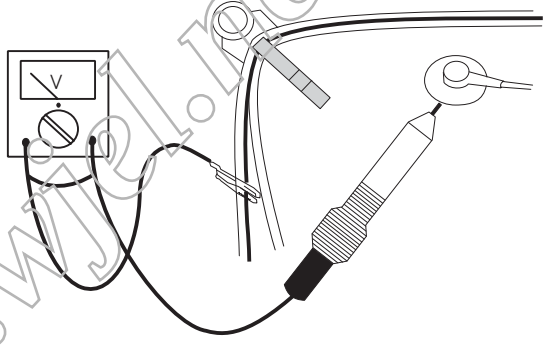
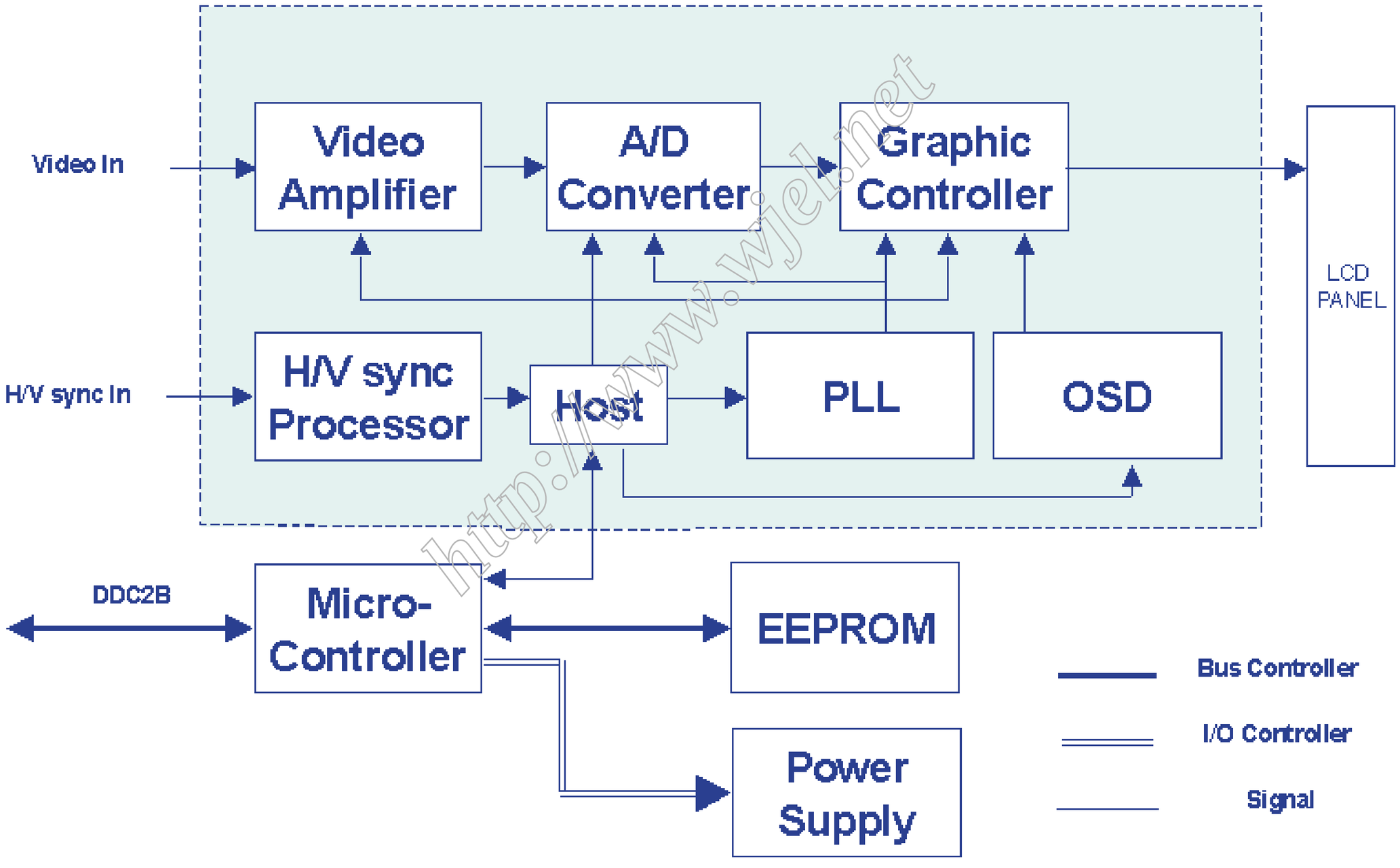


Fig.1 (CRT ONLY)

Platform

Functional Block

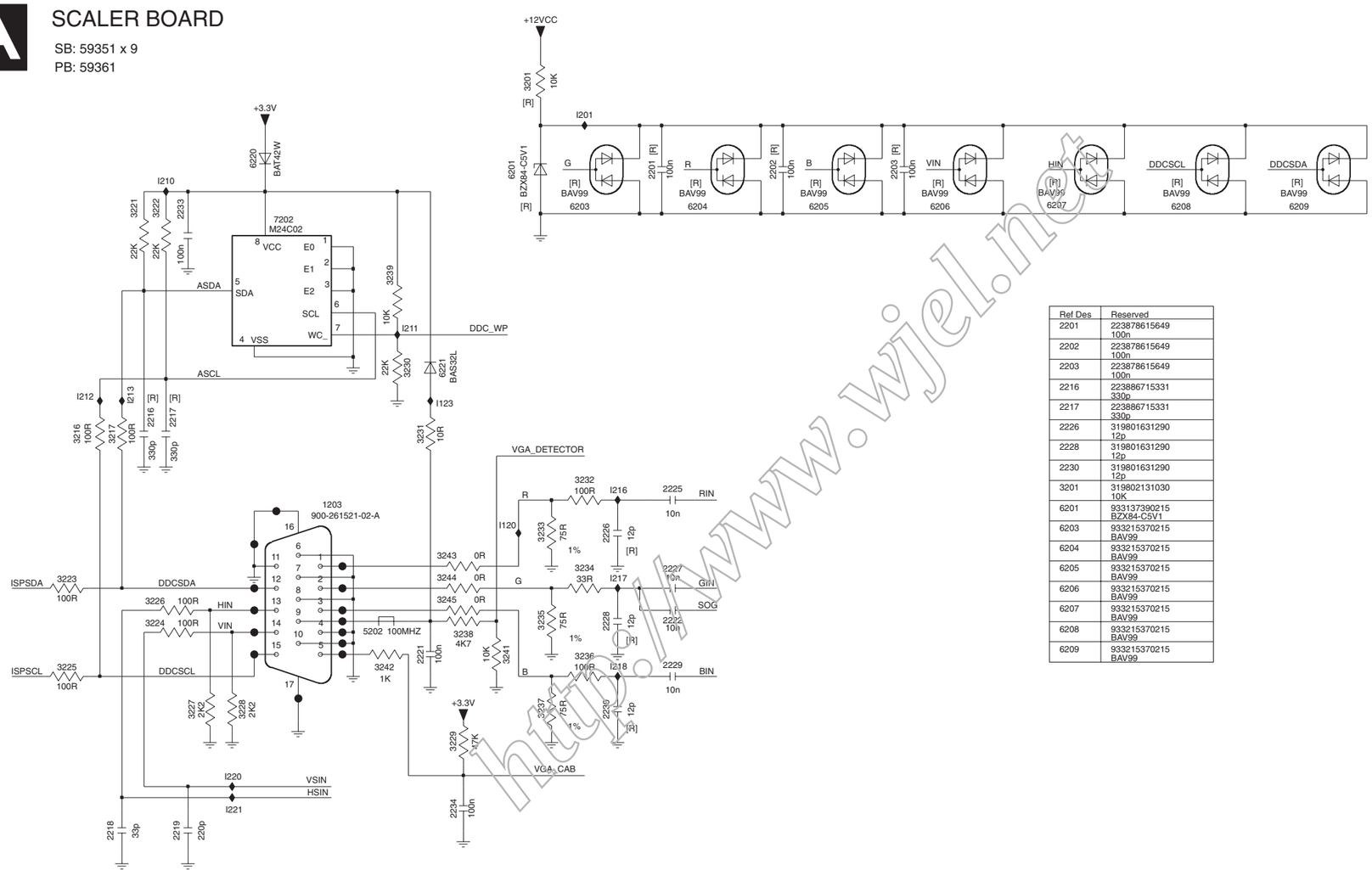


Schematic diagram(Scaler)

PHILIPS

SCALER BOARD

SB: 59351 x 9
PB: 59361



Ref Des	Reserved
2201	223878615649 100n
2202	223878615649 100n
2203	223878615649 100n
2216	223886715331 330p
2217	223886715331 330p
2226	319801631290 12p
2228	319801631290 12p
2230	319801631290 12p
3201	319802131030 10K
6201	933137390215 BZX84-C5V1
6203	933215370215 BAV99
6204	933215370215 BAV99
6205	933215370215 BAV99
6206	933215370215 BAV99
6207	933215370215 BAV99
6208	933215370215 BAV99
6209	933215370215 BAV99

1203 D3
2201 B5
2202 B6
2203 B7
2216 D2
2217 D2
2218 F2
2219 F2
2221 E4
2222 E5
2225 D5
2226 D5
2227 E5
2228 E5
2229 E5
2230 E5
2233 B2
2234 F4
3201 A4
3216 D1
3217 D2
3221 B2
3222 B2
3223 E1
3224 E2
3225 E1
3226 E2
3227 E2
3228 E2
3229 F4
3230 C3
3231 D4
3232 D5
3233 D4
3234 E5
3235 E4
3236 E5
3237 E4
3238 E4
3239 C3
3241 E4
3242 E3
3243 D4
3244 E4
3245 E4
5202 E3
6201 B4
6203 B5
6204 B5
6205 B6
6206 B7
6207 B8
6208 B8
6209 B9
6220 B2
6221 C4
7202 B3
I120 D4
I123 C4
I201 B5
I210 B2
I211 C3
I212 C1
I213 C2
I216 D5
I217 E5
I218 E5
I220 F2
I221 F2

EXCEPT 1203 WERE CHIP COMPONENTS.

CHN TYT12-	SETNAME XH4		
CLASS_NO	DSUB 150S5FG/00	3138 158 5762	1 --------
2003-11-29 3			
NAME Jerry Chen/Joss Hung	SUPERS.	4 10 130 - 1 *** A3	
MGr CHECK ********	DATE 2003-11-29	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2000	

Schematic Diagram (Scaler)

PHILIPS

B

SCALER BOARD

SB: 59351 x 9

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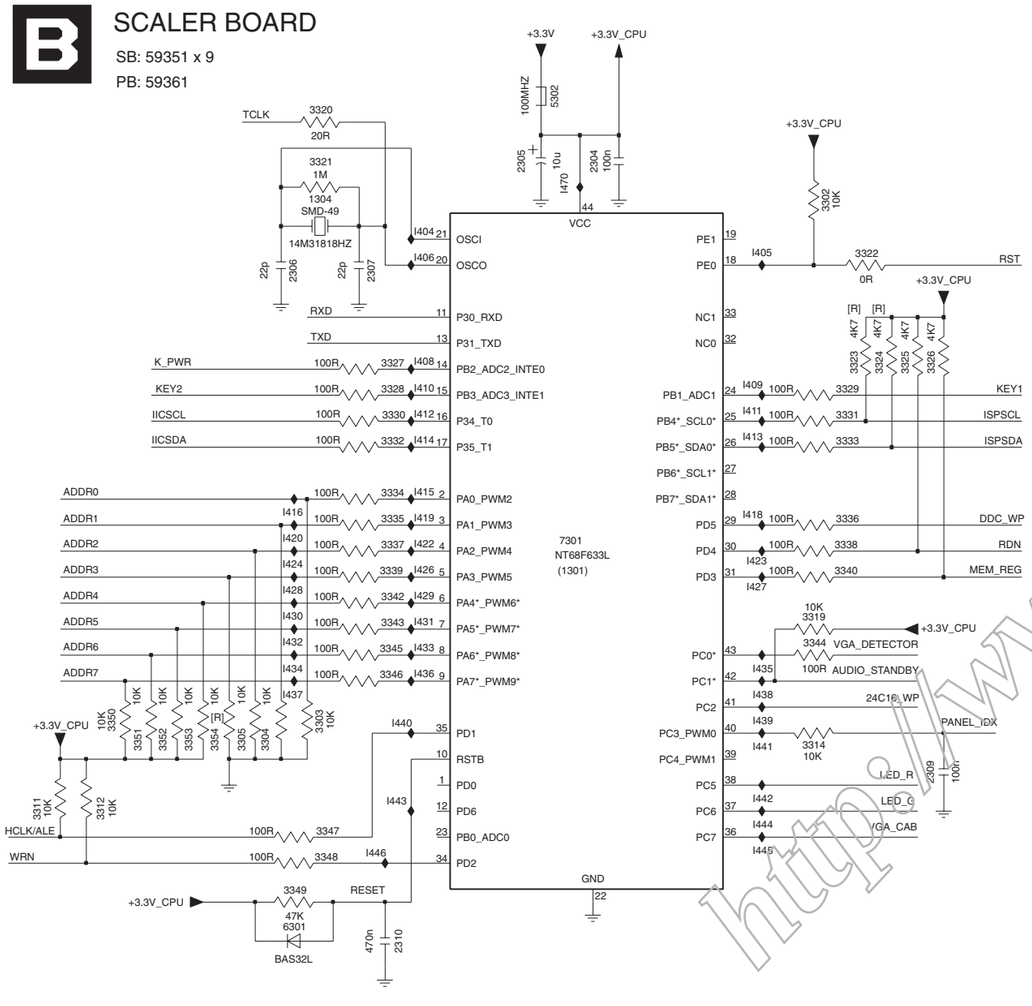


Ref Des	Reserved Reserved Variant
1303	313816876941 JFE63173
2308	223878615649 100n
3310	319802131030 10K
3323	319802134720 4K7
3324	319802134720 4K7
3354	319802131030 10K

1303 C9 I410 C3
1304 B2 I411 C5
2304 A4 I412 C3
2305 A3 I413 C5
2306 B2 I414 C3
2307 B3 I415 C3
2308 D8 I416 C2
2309 E6 I417 C9
2310 E3 I418 C5
2313 A7 I419 C3
3302 A5 I420 C2
3303 D2 I421 C9
3304 D2 I422 C3
3305 D2 I423 C5
3306 A8 I424 C2
3307 A8 I425 C9
3308 B8 I426 D3
3309 B8 I427 D5
3310 B7 I428 D2
3311 E1 I429 D3
3312 E1 I430 D2
3314 E5 I431 D3
3319 D5 I432 D2
3320 A2 I433 D3
3321 A2 I434 D2
3322 B5 I435 D5
3323 B5 I436 D3
3324 B5 I437 D2
3325 B5 I438 D5
3326 B6 I439 D5
3327 B3 I440 D3
3328 C3 I441 D5
3329 C5 I442 E5
3330 C3 I443 E3
3331 C5 I444 E5
3332 C3 I445 E5
3333 C5 I446 E3
3334 C3 I470 A4
3335 C3
3336 C5
3337 C3
3338 C5
3339 D3
3340 D5
3341 A8
3342 D3
3343 D3
3344 D5
3345 D3
3346 D3
3347 E2
3348 E2
3349 E2
3350 D1
3351 D1
3352 D1
3353 D2
3354 D2
5302 A4
6301 E2
7301 C4
7302 A9
I401 A8
I402 A8
I403 B8
I404 B3
I405 B5
I406 B3
I407 B8
I408 B3
I409 C5

EXCEPT 1303,7302 WERE CHIP COMPONENTS.

CHN TYT12-		SETNAME XH4	
CLASS_NO	MICRO 150S5FG/00	3138 158 5762	1 --------
2003-11-29 3			
NAME Jerry Chen/Joss Hung		SUPERS. 4	10 130 - 2 *** A3
MGr CHECK ********		DATE 2003-11-29	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2000

Schematic diagram(Scaler)

PHILIPS

SCALER BOARD

SB: 59351 x 9

PB: 59361

+3.3V
5445 100MHZ 2460 10u 2457 100n 2458 100n 2459 100n 2450 100n 2451 100n → I101 → 3.3V_AVDD
5440 100MHZ 2468 10u 2442 100n 2443 100n 2444 100n 2448 100n 2449 100n → I106 → 3.3V_DVDD
5446 100MHZ 2463 10u 2464 100n 2465 100n 2466 100n → I110 → 3.3V_LVDS
7442 MT1 LD1117AS18TR ADJ/GND: Vin 3 2453 10u 100n 2445; Vout 2 2452 100n 2446 10u; 4 1 → I111 → +1.8V
+1.8V
5441 100MHZ 2482 10u 2455 100n 2454 100n 2401 100n 2402 100n 2403 100n → I112 → 1.8V_DVDD
5444 100MHZ 2483 10u 2408 100n 2409 100n → I113 → 1.8V_AVDD

1.8V_AVDD: 104 106 → VDD_ADC_1.8, VDD_RPLL_1.8
3.3V_AVDD: 109 100 96 91 87 → AVDD_RPLL_3.3, AVDD_ADC_3.3, AVDD_RED_3.3, AVDD_GREEN_3.3, AVDD_BLUE_3.3
3.3V_DVDD: 22 41 61 75 112 → RVDD0_3.3, RVDD1_3.3, RVDD2_3.3, RVDD3_3.3, RVDD4_3.3
1.8V_DVDD: 20 35 49 81 114 → CVDD0_1.8, CVDD1_1.8, CVDD2_1.8, CVDD3_1.8, CVDD4_1.8
3.3V_LVDS: 4 17 19 → AVDD_OUT_LV0_3.3, AVDD_OUT_LV1_3.3, AVDD_LV_3.3

TCLK → I102 → 110 XTAL, 111 TCLK
3401 120R I449 RIN 10n 2414 → 97 RED+, 98 RED-
3402 120R I450 GIN 10n 2415 → 93 GREEN+, 94 GREEN-
3403 120R I451 BIN 10n 2416 → 88 BLUE+, 89 BLUE-
3410 1M
HSIN 100R 3404 → 85 HSYNC
VSIN 3405 I453 → 86 VSYNC
SOG 100R → 92 SOG_MCSS
101 ADC_TEST
116 GPIO3_IRQn
2 RESET_OUT
RST → 1 RESETn
ADDR7 121 GPIO5_AD7
ADDR6 122 GPIO6_AD6
ADDR5 123 GPIO7_AD5
ADDR4 124 HFS_AD4
ADDR3 125 HDATA3_AD3
ADDR2 126 HDATA2_AD2_OSC_SEL
ADDR1 127 HDATA1_AD1_HP1
ADDR0 128 HDATA0_AD0_HP0
WRN 119 WRn
RDN 120 RDn
HCLK/ALE 118 HCLK_ALE
MEM_REG 117 GPIO4_MEM_REG
70 DEN
71 DHS
72 DVS
73 DCLK

CH3P_LV 6 TXO3+
CH3N_LV 7 TXO3-
CHKP_LV 8 TXOC+
CHKN_LV 9 TXOC-
CH2P_LV 10 TXO2+
CH2N_LV 11 TXO2-
CH1P_LV 12 TXO1+
CH1N_LV 13 TXO1-
CH0P_LV 14 TXO0+
CH0N_LV 15 TXO0-

RESERVED0 24, RESERVED1 25, RESERVED2 26, RESERVED3 27, RESERVED4 28, RESERVED5 29, RESERVED6 30, RESERVED7 31, RESERVED8 32, RESERVED9 33, RESERVED10 34, RESERVED11 37, RESERVED12 38, RESERVED13 39, RESERVED14 44, RESERVED15 45, RESERVED16 46, RESERVED17 47, RESERVED18 48, RESERVED19 51, RESERVED20 54, RESERVED21 55, RESERVED22 56, RESERVED23 57, RESERVED24 58, RESERVED25 59, RESERVED26 64, RESERVED27 65, RESERVED28 66, RESERVED29 67, RESERVED30 68, RESERVED31 69

GPIO12 40, GPIO13 43, GPIO10 52, GPIO11 53, GPIO8 60, GPIO9 63
GPIO2 78, GPIO1_PWM1 79, GPIO0_PWM0 80
3408 10K VOLUME BRIGHTNESS
3409 47R
VBUFS_RPLL 107
VCO_LV 3 I468
74 PANEL_PWR
PPWR
77 BL_CONTROL
PBIAS
2417 100n, 3411 0R [R]

GND_ADC 103, AGND_ADC 102, AGND_BLUE 90, AGND_GREEN 95, AGND_RED 99, VSS_RPLL 105, AVSS_RPLL 108
CRVSS0 21, CRVSS1 23, CRVSS2 36, CRVSS3 42, CRVSS4 50, CRVSS5 62, CRVSS6 76, CRVSS7 82, CRVSS8 113, CRVSS9 115
AVSS_OUT_LV0_3.3 5, AVSS_OUT_LV1_3.3 16, AVSS_LV 18
STI_TM1 83, STI_TM2 84

7443
gmZAN3-L

P+3.3V
I462
5449 100MHZ 2477 10u 2469 100n
21 22
F190 20, F168 19, F169 18, F170 17, F171 16, F172 15, F173 14, F174 13, F175 12, F176 11, F177 10, F178 9, F179 8, F180 7, F181 6, F182 5, F183 4, F184 3, F084 2, 1
TXO0- TXO0+ TXO1- TXO1+ TXO2- TXO2+ TXOC- TXOC+ TXO3- TXO3+
0R 3412 [R]
63622 1412 TO PANEL

Ref Des	Reserved
3411	232270296001 0R
3412	232270296001 0R

1412 E9 I101 B2
2401 E1 I102 B4
2402 E1 I106 B2
2403 E2 I110 C2
2408 F1 I111 D2
2409 F1 I112 E2
2414 B4 I113 F2
2415 B4 I449 B4
2416 B4 I450 B4
2417 E7 I451 B4
2442 C1 I453 C4
2443 C1 I462 B8
2444 C1 I468 E7
2445 D1
2446 D2
2448 C1
2449 C2
2450 B1
2451 B2
2452 D1
2453 D1
2454 E1
2455 E1
2457 B1
2458 B1
2459 B1
2460 B1
2463 C1
2464 C1
2465 C1
2466 C1
2468 C1
2469 C9
2477 C8
2482 F1
2483 F1
3401 B3
3402 B3
3403 C3
3404 C4
3405 C4
3408 E7
3409 E7
3410 C4
3411 E8
3412 E9
5440 B1
5441 E1
5444 F1
5445 B1
5446 C1
5449 B8
7442 D1
7443 C6
F084 E9
F168 C9
F169 C9
F170 C9
F171 C9
F172 C9
F173 C9
F174 C9
F175 D9
F176 D9
F177 D9
F178 D9
F179 D9
F180 D9
F181 D9
F182 E9
F183 E9
F184 E9
F190 B9

CHN TYT12-		SETNAME XH4	
CLASS_NO	Scaler 150S5FG/00	3138 158 5762	1 --------
2003-11-29 3			
NAME Jerry Chen/Joss Hung	SUPERS. 4	10	130 - 3 *** A3
MGr CHECK ********	DATE 2003-11-29	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2000	

Schematic diagram(Scaler)

PHILIPS

SCALER BOARD

SB: 59351 x 9
PB: 59361

1502 JFE6339V
TO POWER BD
F064
F065 BRIGHTNESS
F066 BL_CONTROL
F067 PANEL_IDX
F068
F060
F070
F072
F073
5501 100MHZ +12VCC
2501 100n
2502 100n
2534 47u
5503 100MHZ +3.3V
2505 100n
2506 100n
2536 47u

[R] 1503 JFE6339V
F052
F051 +12VCC
F054
F055
F057
F058
F053
F062
F063
F061

1505 63387
TO CONTROL BD 1912

3501 100R I574 VOLUME 2516 1n
3502 100R I575 AUDIO_STANDBY 2518 1n
3504 100R I578 KEY1 2522 1n
3505 100R I579 KEY2 2524 1n
3510 100R I580 K_PWR 2533 1n
3508 220R I582 2530 1n
3509 220R I583 2532 1n

+3.3V
7502 BC857C
I589 3527 10K LED_R
I590 3528 10K LED_G

+3.3V
3512 47K
I114
PANEL_PWR
7505 MUN2211J
3537 47K
I115
2509 10n
7506 SI5441DC
G S D3 D4 D2 D5 D1 D6
P+3.3V
3533 10K

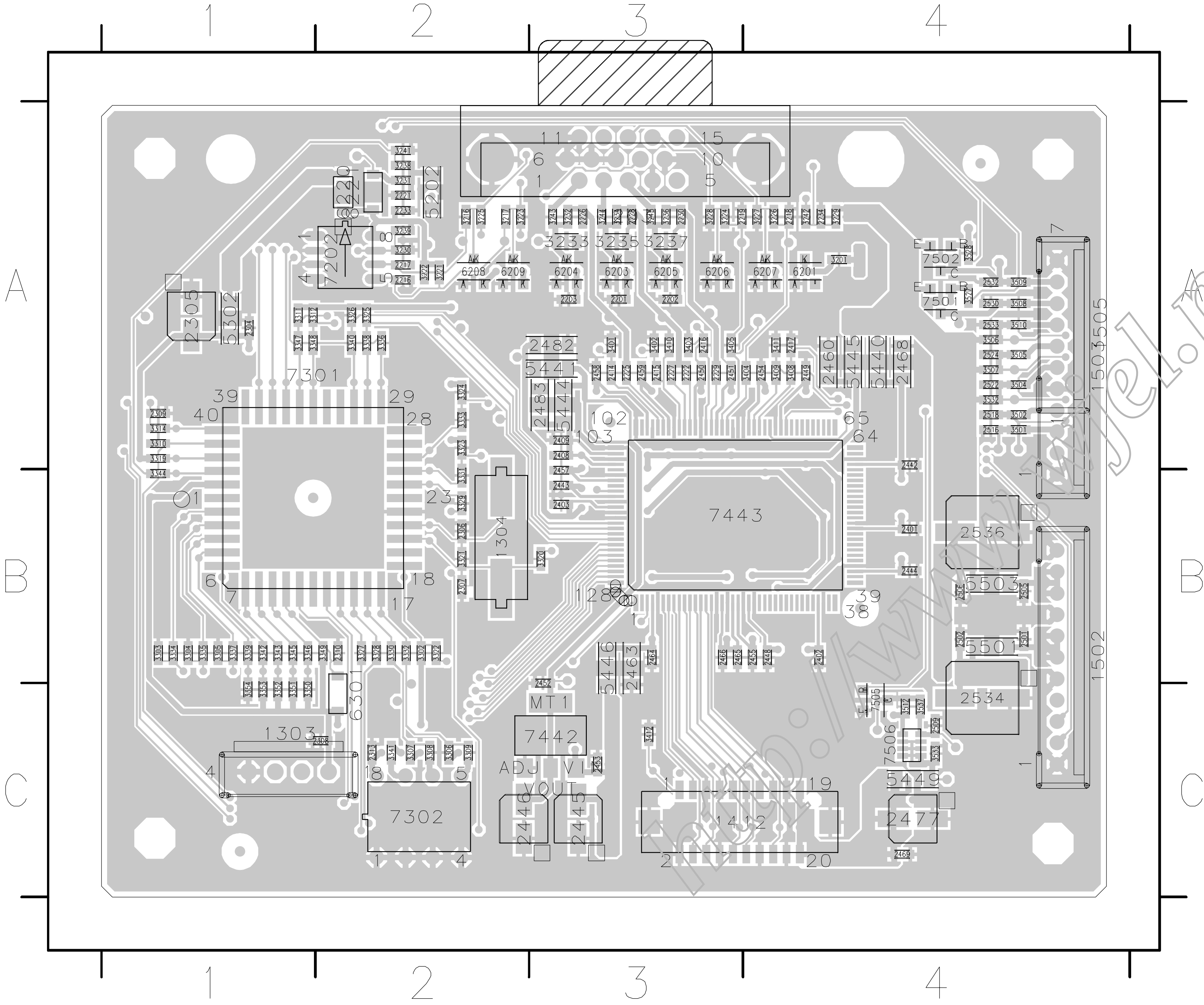
+3.3V
KEY1 3532 10K
K_PWR 3506 10K
KEY2 3507 10K

Ref Des	Reserved
1503	313816872071 JFE6339V

1502 B1
1503 D1
1505 D1
2501 C2
2502 C2
2505 C2
2506 C2
2509 C8
2516 D4
2518 D4
2522 E4
2524 E4
2530 E4
2532 F4
2533 E4
2534 C3
2536 C3
3501 D3
3502 D3
3504 D3
3505 E3
3506 E8
3507 E8
3508 E3
3509 F3
3510 E3
3512 B7
3527 E6
3528 F6
3532 E8
3533 D9
3537 C8
5501 B2
5503 C2
7501 E5
7502 F5
7505 B7
7506 B9
F051 D1
F052 D1
F053 E1
F054 D1
F055 D1
F057 D1
F058 E1
F060 B1
F061 E1
F062 E1
F063 E1
F064 B1
F065 B1
F066 B1
F067 B1
F068 B1
F070 C1
F072 C1
F073 C1
I114 C8
I115 B8
I574 D3
I575 D3
I578 D3
I579 E3
I580 E3
I582 E3
I583 F3
I589 E5
I590 F5

EXCEPT 1502,1503,1505 WERE CHIP COMPONENTS.

CHN TYT12-		SETNAME XH4	
CLASS_NO	CONNECTOR 150S5FG/00	3138 158 5762	1 --------
2003-11-29 3			
NAME Jerry Chen/Joss Hung	SUPERS. 4	130 - 4	A3
CHECK	DATE 2003-11-29	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2000	



1203	A3	2451	A3	3235	A3	3346	B1	6207	A4
1303	C1	2452	B3	3236	A3	3347	A1	6208	A2
1304	B2	2453	C3	3237	A3	3348	A1	6209	A2
1412	C3	2454	A4	3238	A2	3349	B2	6220	A2
1502	B4	2455	B4	3239	A2	3350	C1	6221	A2
1503	A4	2457	B3	3241	A2	3351	C1	6301	C2
1505	A4	2458	A3	3242	A4	3352	C1	7202	A2
2201	A3	2459	A3	3243	A3	3353	C1	7301	A1
2202	A3	2460	A4	3244	A3	3354	C1	7302	C2
2203	A3	2463	B3	3245	A3	3401	A3	7442	C3
2216	A2	2464	B3	3302	B2	3402	A3	7443	B3
2217	A2	2465	B3	3303	B1	3403	A3	7501	A4
2218	A4	2466	B3	3304	B1	3404	A4	7502	A4
2219	A3	2468	A4	3305	B1	3405	A3	7505	C4
2221	A2	2469	C4	3306	C2	3408	A4	7506	C4
2222	A3	2477	C4	3307	C2	3409	A4		
2225	A3	2482	A3	3308	C2	3410	A3		
2226	A3	2483	A3	3309	C2	3411	A4		
2227	A3	2501	B4	3310	A1	3412	C3		
2228	A3	2502	B4	3311	A1	3501	A4		
2229	A3	2505	B4	3312	A1	3502	A4		
2230	A3	2506	B4	3314	A1	3504	A4		
2233	A2	2509	C4	3319	A1	3505	A4		
2234	A4	2516	A4	3320	B3	3506	A4		
2304	A1	2518	A4	3321	B2	3507	A4		
2305	A1	2522	A4	3322	B2	3508	A4		
2306	B2	2524	A4	3323	A2	3509	A4		
2307	B2	2530	A4	3324	A2	3510	A4		
2308	C2	2532	A4	3325	A2	3512	C4		
2309	A1	2533	A4	3326	A2	3527	A4		
2310	B2	2534	C4	3327	B2	3528	A4		
2313	C2	2536	B4	3328	B2	3532	A4		
2401	B4	3201	A4	3329	B2	3533	C4		
2402	B4	3216	A2	3330	B2	3537	C4		
2403	B3	3217	A2	3331	B2	5202	A2		
2408	A3	3221	A2	3332	B2	5302	A1		
2409	A3	3222	A2	3333	A2	5440	A4		
2414	A3	3223	A2	3334	B1	5441	A3		
2415	A3	3224	A3	3335	B1	5444	A3		
2416	A3	3225	A2	3336	A2	5445	A4		
2417	A4	3226	A4	3337	B1	5446	B3		
2442	A4	3227	A4	3338	A2	5449	C4		
2443	B3	3228	A3	3339	B1	5501	B4		
2444	B4	3229	A4	3340	A2	5503	B4		
2445	C3	3230	A2	3341	C2	6201	A4		
2446	C2	3231	A2	3342	B1	6203	A3		
2448	B4	3232	A3	3343	B1	6204	A3		
2449	A4	3233	A3	3344	B1	6205	A3		
2450	A3	3234	A3	3345	B1	6206	A3		

CN: TYT12- | LCD 150S5

CLASS NO. 3XX000

Scaler Board
LCD 150S5

3138 103 5935

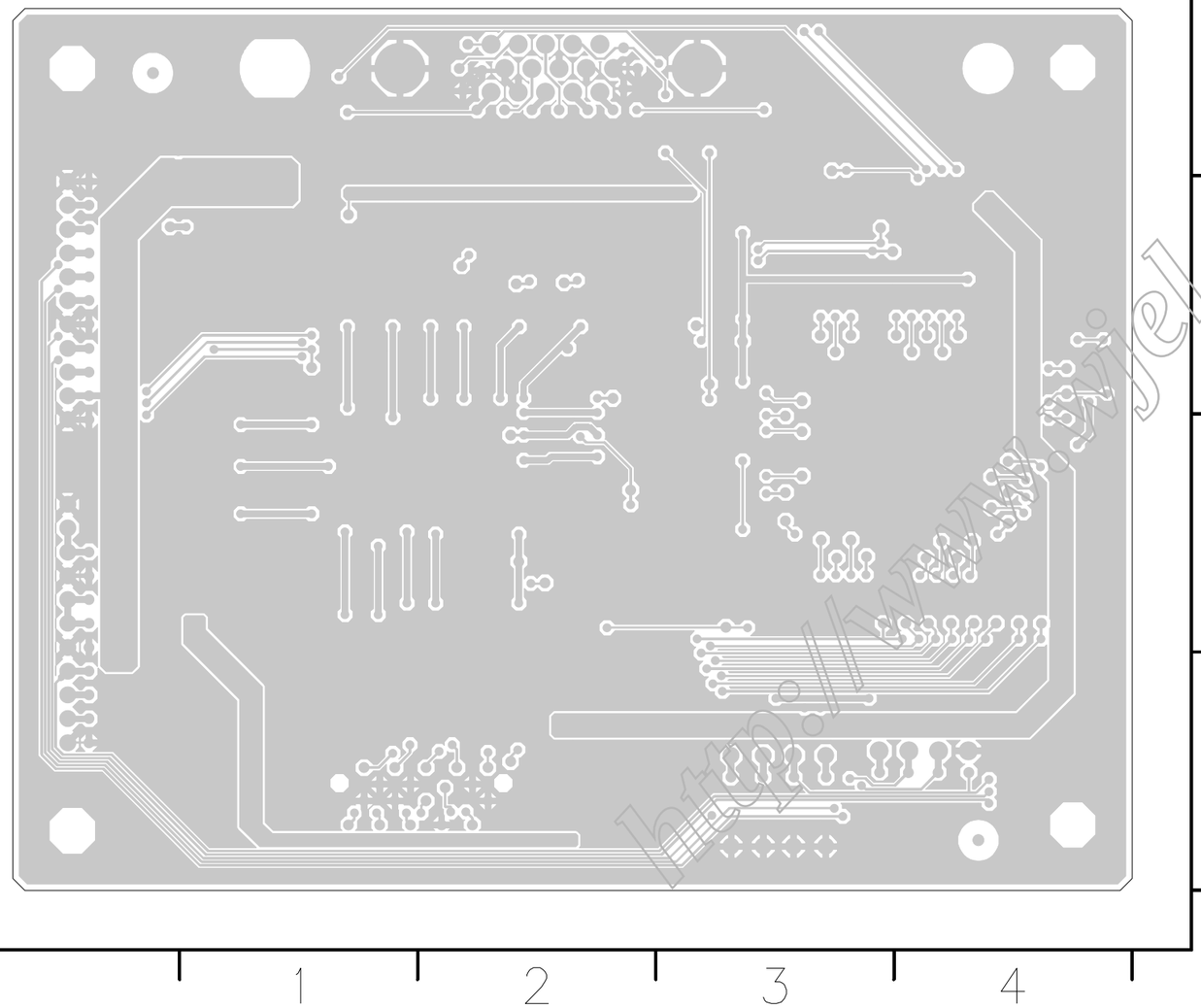
1 2003-11-24

2003-11-24

NAME Jerry Chen/Joss Hung | SUPERS | 2 | 10 | 132 - 1 | A3

CHECK | DATE 2003-11-24 | © Philips Electronics N.V.

PHILIPS



CN: TYT12-		LCD 150S5	
CLASS NO. 3XX000	Scaler Board LCD 150S5	3138 103 5935	1 2003-11-24
1 / 2 / 2003-11-24 3			
NAME Jerry Chen/Joss Hung	SUPERS	2	10 / 132 - 2 / A3
CHECK	DATE 2003-11-24	© Philips Electronics N.V.	

Schematic diagram(Control)

PHILIPS

Control Board

SB: 59411 x16
PB: 59421

6911
L-3WYGW-8.03LSF5/F

LED_G
LED_R
K_PWR
OSD
UP
DOWN
RIGHT
LEFT
AUTO

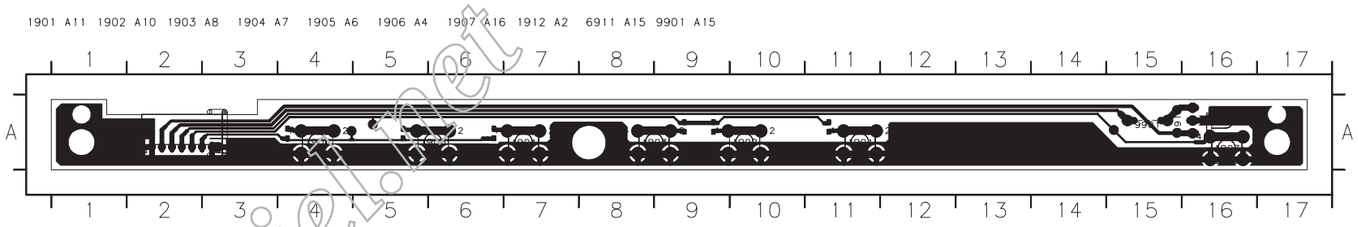
1912
JFE6336H
TO SCALER BOARD 1505
F001
F002
F003
F004
F005
F006

1907 SKHHAR2520
3901 47K 1901 SKHHAR2520
3902 10K 1902 SKHHAR2520
3903 1K 1903 SKHHAR2520
3904 47K 1904 SKHHAR2520
3905 10K 1905 SKHHAR2520
3906 1K 1906 SKHHAR2520

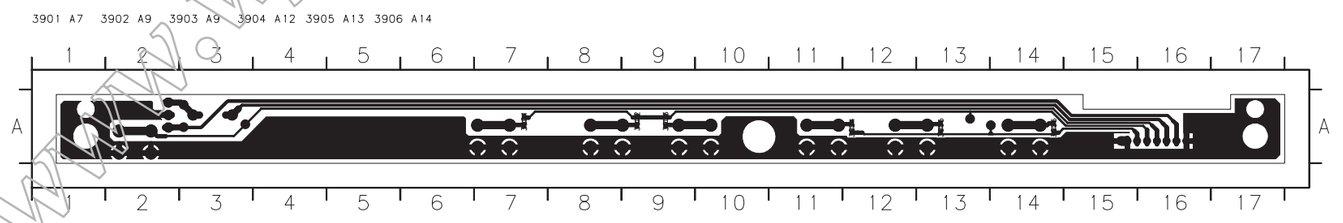
© STANDS FOR CHIP COMPONENTS.

1901 C3
1902 C3
1903 D3
1904 D3
1905 E3
1906 E3
1907 B3
1912 B1
3901 B2
3902 C2
3903 C2
3904 D2
3905 D2
3906 E2
6911 A3
F001 B1
F002 B1
F003 B1
F004 C1
F005 C1
F006 C1

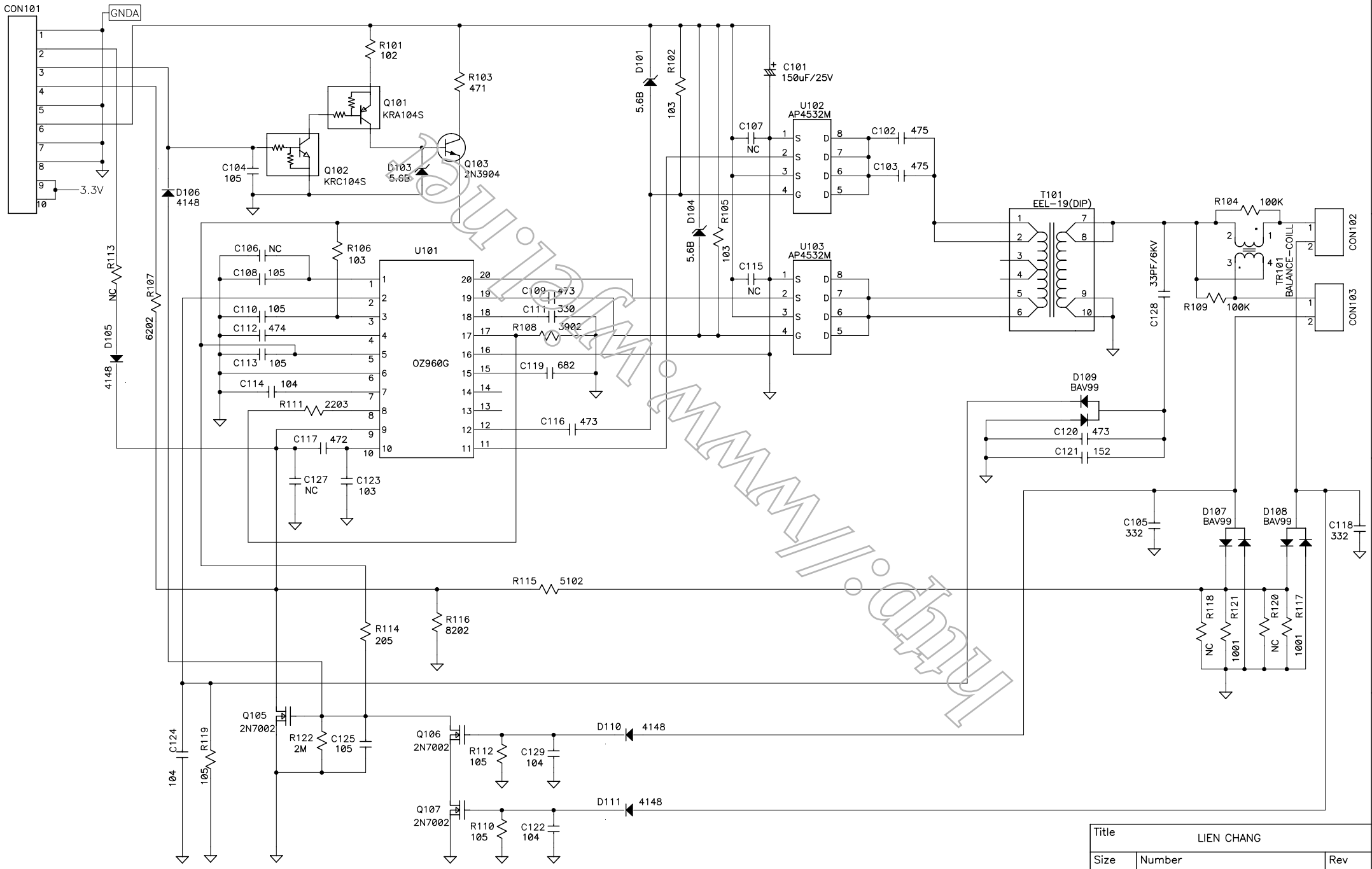
1901 A11 1902 A10 1903 A8 1904 A7 1905 A6 1906 A4 1907 A16 1912 A2 6911 A15 9901 A15

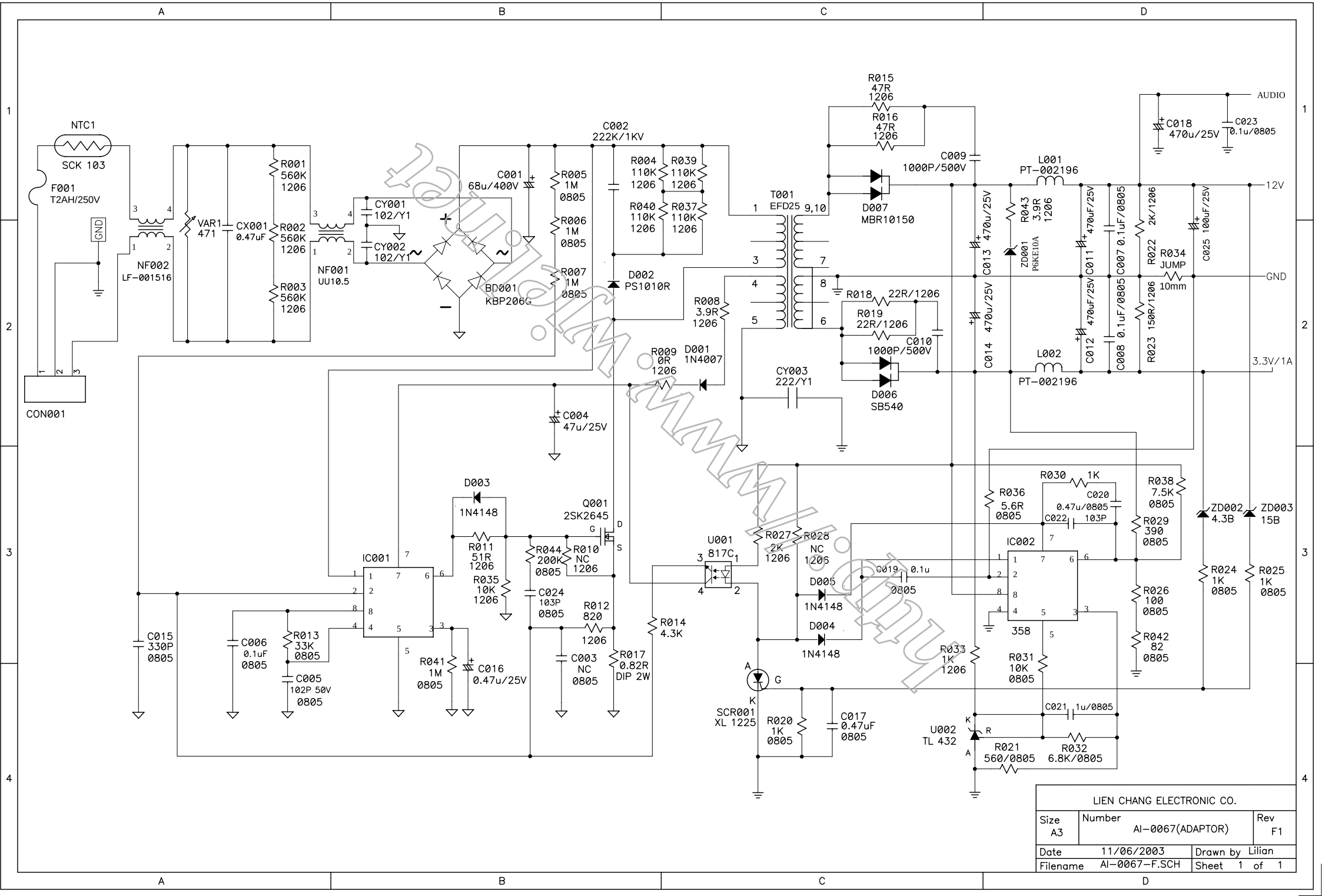


3901 A7 3902 A9 3903 A9 3904 A12 3905 A13 3906 A14



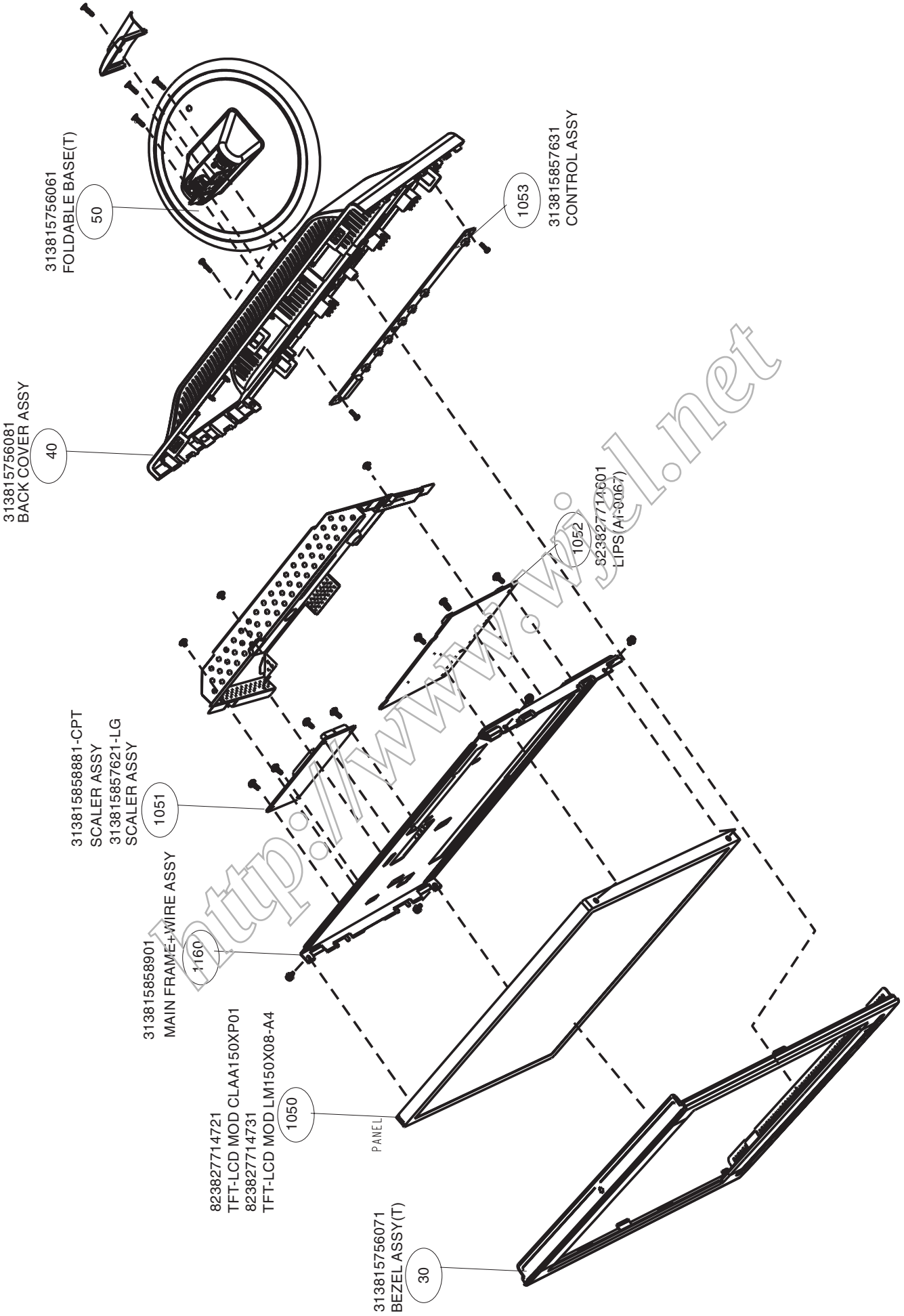
CHN TYT12- SETNAME XH4
CLASS_NO
CONTROL BOARD
150S5FG/00
3138 158 5763
2003-11-29 3
NAME Jerry Chen SUPERS. 1 130 – 1 A4
CHECK DATE 2003-11-29
© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2000


CON101
GNDA
3.3V
R101 102
R103 471
Q101 KRA104S
Q102 KRC104S
Q103 2N3904
C104 105
D103 5.6B
D106 4148
D101 5.6B
R102 103
C101 150uF/25V
U102 AP4532M
C107 NC
C102 475
C103 475
D104 5.6B
R105 103
U103 AP4532M
C115 NC
T101 EEL-19(DIP)
R104 100K
R109 100K
TR101 BALANCE-COILL
CON102
CON103
33PF/6KV
C128
R113 NC
R107 6202
D105 4148
U101 OZ960G
C106 NC
R106 103
C108 105
C110 105
C112 474
C113 105
C114 104
R111 2203
C117 472
C127 NC
C123 103
C109 473
C111 330
R108 3902
C119 682
C116 473
D109 BAV99
C120 473
C121 152
C105 332
D107 BAV99
D108 BAV99
C118 332
R115 5102
R114 205
R116 8202
R118 NC
R121 1001
R120 NC
R117 1001
C124 104
R119 105
Q105 2N7002
R122 2M
C125 105
Q106 2N7002
R112 105
C129 104
D110 4148
Q107 2N7002
R110 105
C122 104
D111 4148
Title LIEN CHANG
Size A3
Number AI-0067(INVERTER)
Rev F1
Date 11/14/2003
Drawn by Lilian
Filename AI-0067-F.SCH
Sheet 1 of 1



LIEN CHANG ELECTRONIC CO.		
Size A3	Number AI-0067(ADAPTOR)	Rev F1
Date 11/06/2003		Drawn by Lilian
Filename AI-0067-F.SCH		Sheet 1 of 1

Exploded View



CTV : 150S5FG/00 8639 000 15108

Mechanical Parts

30	313815756071	BEZEL ASSY(T)
31	313815411811	BEZEL(T)
32	313815411781	BUTTON-POWER
33	313815411771	FUNCTION KEYS
40	313815756081	BACK COVER ASSY
50	313815756061	FOLDABLE BASE(T)

LCD-Panel

1050	823827714731	TFT-LCD MOD LM150X08-A4
1050	823827714721	TFT-LCD MOD CLAA150XP01

Packing

450	313815636651	CARTON-150S5
451	313815636621	CUSHION-R
452	313815636631	CUSHION-L
453	313815621481	P.E.BAG

Accessory

601	313811706601	E-D.F.U. ASSY
1157	313816874231	MAINS CORD
1158	313819871191	CORD SUB-D 15/1M8/SUB-D 15GY

PCB assy

1051	313815857621	SCALER ASSY
1051	313815858881	SCALER ASSY
1052	823827714601	LIPS(AI-0067)
1053	313815857631	CONTROL ASSY

Miscellanea

34	313815411791	LENS
90	313810440571	HOUSING COVER
291	313815561931	LABEL(CPU)
295	313815562731	LABEL-EEPROM(L)
295	313815562741	LABEL-EEPROM(C)
615	313811706641	HEX CODE OF F/W (NO MATL REQ)
1160	313815858901	MAIN FRAME+WIRE ASSY
1304	243854300093	RES XTL SM 14M31818 7P SMD49 R
4444	313810610347	CD ROM - SERVICE MANUAL
4444	313810610348	SERVICE MANUAL
8161	313819871231	CBLE-017 7/160/7-017 AWG28
8163	313819871221	CBLE-104 20/85/20-032 AWG28

PCB assy

1051	313815857621	SCALER ASSY-LG & CPT

2218	223886715339	CER1 0603 NP0 50V 33P PM5 R
2219	223886715221	CER1 0603 NP0 50V 220P PM5 R
2221	223878615649	CER2 0603 X7R 16V 100N PM10 R
2222	223858615636	CER2 0603 X7R 50V 10N PM10 R
2225	223858615636	CER2 0603 X7R 50V 10N PM10 R
2227	223858615636	CER2 0603 X7R 50V 10N PM10 R
2229	223858615636	CER2 0603 X7R 50V 10N PM10 R
2233	223878615649	CER2 0603 X7R 16V 100N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R
2304	223878615649	CER2 0603 X7R 16V 100N PM10 R
2305	202001293721	ELCAP SM RV2 16V 10U PM20 R
2306	223886715229	CER1 0603 NP0 50V 22P PM5 R
2307	223886715229	CER1 0603 NP0 50V 22P PM5 R
2309	223878615649	CER2 0603 X7R 16V 100N PM10 R
2310	223824659858	CER2 0603 Y5V 10V 470N P8020 R
2313	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	223878615649	CER2 0603 X7R 16V 100N PM10 R
2402	223878615649	CER2 0603 X7R 16V 100N PM10 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	223878615649	CER2 0603 X7R 16V 100N PM10 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2414	223858615636	CER2 0603 X7R 50V 10N PM10 R
2415	223858615636	CER2 0603 X7R 50V 10N PM10 R
2416	223858615636	CER2 0603 X7R 50V 10N PM10 R
2417	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	202001293721	ELCAP SM RV2 16V 10U PM20 R
2446	202001293721	ELCAP SM RV2 16V 10U PM20 R
2448	223878615649	CER2 0603 X7R 16V 100N PM10 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223878615649	CER2 0603 X7R 16V 100N PM10 R
2451	223878615649	CER2 0603 X7R 16V 100N PM10 R
2452	223878615649	CER2 0603 X7R 16V 100N PM10 R
2453	223878615649	CER2 0603 X7R 16V 100N PM10 R
2454	223878615649	CER2 0603 X7R 16V 100N PM10 R
2455	223878615649	CER2 0603 X7R 16V 100N PM10 R
2457	223878615649	CER2 0603 X7R 16V 100N PM10 R
2458	223878615649	CER2 0603 X7R 16V 100N PM10 R
2459	223878615649	CER2 0603 X7R 16V 100N PM10 R
2460	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2463	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2464	223878615649	CER2 0603 X7R 16V 100N PM10 R
2465	223878615649	CER2 0603 X7R 16V 100N PM10 R
2466	223878615649	CER2 0603 X7R 16V 100N PM10 R
2468	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2469	223878615649	CER2 0603 X7R 16V 100N PM10 R
2477	202001293721	ELCAP SM RV2 16V 10U PM20 R
2482	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2483	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2501	223878615649	CER2 0603 X7R 16V 100N PM10 R
2502	223878615649	CER2 0603 X7R 16V 100N PM10 R
2505	223878615649	CER2 0603 X7R 16V 100N PM10 R
2506	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	223858615636	CER2 0603 X7R 50V 10N PM10 R
2516	223858615623	CER2 0603 X7R 50V 1N PM10 R
2518	223858615623	CER2 0603 X7R 50V 1N PM10 R
2522	223858615623	CER2 0603 X7R 50V 1N PM10 R
2524	223858615623	CER2 0603 X7R 50V 1N PM10 R
2530	223858615623	CER2 0603 X7R 50V 1N PM10 R
2532	223858615623	CER2 0603 X7R 50V 1N PM10 R
2533	223858615623	CER2 0603 X7R 50V 1N PM10 R
2534	202001293747	ELCAP SM RV2 25V 47U PM20 R
2536	202001293747	ELCAP SM RV2 25V 47U PM20 R

3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3221	212211805674	RST SM 0603 RC0603 22K PM5 R
3222	212211805674	RST SM 0603 RC0603 22K PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	212211805678	RST SM 0603 RC0603 47K PM5 R
3230	212211805674	RST SM 0603 RC0603 22K PM5 R
3231	212211805635	RST SM 0603 RC0603 10R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232273467509	RST SM 0805 RC12H 75R PM1 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232273467509	RST SM 0805 RC12H 75R PM1 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232273467509	RST SM 0805 RC12H 75R PM1 R
3238	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3239	212211805669	RST SM 0603 RC0603 10K PM5 R
3241	212211805669	RST SM 0603 RC0603 10K PM5 R
3242	212211805656	RST SM 0603 RC0603 1K PM5 R
3243	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3244	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3245	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3303	212211805669	RST SM 0603 RC0603 10K PM5 R
3304	212211805669	RST SM 0603 RC0603 10K PM5 R
3305	212211805669	RST SM 0603 RC0603 10K PM5 R
3306	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3307	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3308	212211805643	RST SM 0603 RC0603 100R PM5 R
3309	212211805643	RST SM 0603 RC0603 100R PM5 R
3311	212211805669	RST SM 0603 RC0603 10K PM5 R
3312	212211805669	RST SM 0603 RC0603 10K PM5 R
3314	212211805669	RST SM 0603 RC0603 10K PM5 R
3319	212211805669	RST SM 0603 RC0603 10K PM5 R
3320	232270462009	RST SM 0603 RC22H 20R PM1 R
3321	212211805689	RST SM 0603 RC0603 1M PM5 R
3322	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3325	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3326	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3328	212211805643	RST SM 0603 RC0603 100R PM5 R
3329	212211805643	RST SM 0603 RC0603 100R PM5 R
3330	212211805643	RST SM 0603 RC0603 100R PM5 R
3331	212211805643	RST SM 0603 RC0603 100R PM5 R
3332	212211805643	RST SM 0603 RC0603 100R PM5 R
3333	212211805643	RST SM 0603 RC0603 100R PM5 R
3334	212211805643	RST SM 0603 RC0603 100R PM5 R
3335	212211805643	RST SM 0603 RC0603 100R PM5 R
3336	212211805643	RST SM 0603 RC0603 100R PM5 R
3337	212211805643	RST SM 0603 RC0603 100R PM5 R
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3340	212211805643	RST SM 0603 RC0603 100R PM5 R
3341	212211805669	RST SM 0603 RC0603 10K PM5 R
3342	212211805643	RST SM 0603 RC0603 100R PM5 R
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3346	212211805643	RST SM 0603 RC0603 100R PM5 R
3347	212211805643	RST SM 0603 RC0603 100R PM5 R
3348	212211805643	RST SM 0603 RC0603 100R PM5 R
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3352	212211805669	RST SM 0603 RC0603 10K PM5 R
3353	212211805669	RST SM 0603 RC0603 10K PM5 R
3401	212211805644	RST SM 0603 RC0603 120R PM5 R
3402	212211805644	RST SM 0603 RC0603 120R PM5 R
3403	212211805644	RST SM 0603 RC0603 120R PM5 R
3404	212211805643	RST SM 0603 RC0603 100R PM5 R
3405	212211805643	RST SM 0603 RC0603 100R PM5 R
3408	212211805669	RST SM 0603 RC0603 10K PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3410	212211805689	RST SM 0603 RC0603 1M PM5 R
3501	212211805643	RST SM 0603 RC0603 100R PM5 R
3502	212211805643	RST SM 0603 RC0603 100R PM5 R
3504	212211805643	RST SM 0603 RC0603 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	212211805669	RST SM 0603 RC0603 10K PM5 R
3507	212211805669	RST SM 0603 RC0603 10K PM5 R
3508	212211805647	RST SM 0603 RC0603 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	212211805643	RST SM 0603 RC0603 100R PM5 R
3512	212211805678	RST SM 0603 RC0603 47K PM5 R
3527	212211805669	RST SM 0603 RC0603 10K PM5 R
3528	212211805669	RST SM 0603 RC0603 10K PM5 R
3532	212211805669	RST SM 0603 RC0603 10K PM5 R
3533	212211805669	RST SM 0603 RC0603 10K PM5 R
3537	212211805678	RST SM 0603 RC0603 47K PM5 R

5202	313816874261	TI321611G800-SMD
5302	313816874261	TI321611G800-SMD
5440	313816874261	TI321611G800-SMD
5441	313816874261	TI321611G800-SMD
5444	313816874261	TI321611G800-SMD
5445	313816874261	TI321611G800-SMD
5446	313816874261	TI321611G800-SMD
5449	313816874261	TI321611G800-SMD
5501	313816874261	TI321611G800-SMD
5503	313816874261	TI321611G800-SMD

6220	932217973668	DIO REC SM BAT42W (PAJI) R
6221	933913910115	DIO SIG SM BAS32L (PHSE) R
6301	933913910115	DIO SIG SM BAS32L (PHSE) R

7202	932214526668	IC SM M24C02-WMN6 (ST00) R
7301	932220582682	IC SM NT68F633L (NOVA) L
7302	932214725682	IC M24C16-WBN6 (ST00) L
7442	932220099685	IC SM LD1117AS18 (ST00) R
7443	823827714771	SCALER IC GMZAN3-L
7501	932200429685	TRA SIG SM BC857C (ONSE) R
7502	932200429685	TRA SIG SM BC857C (ONSE) R
7505	932209265685	TRA SIG SM MUN2211J (ONSE) R
7506	932216638668	FET POW SM SI5441DC (VISH) R

1053	313815857631	CONTROL ASSY

Switch

1901	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1902	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1903	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1904	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1905	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1906	243812800196	SWI TACT H=5 GY 160G SKHHAM B
1907	243812800196	SWI TACT H=5 GY 160G SKHHAM B

3901	212211805678	RST SM 0603 RC0603 47K PM5 R
3902	212211805669	RST SM 0603 RC0603 10K PM5 R
3903	212211805656	RST SM 0603 RC0603 1K PM5 R
3904	212211805678	RST SM 0603 RC0603 47K PM5 R
3905	212211805669	RST SM 0603 RC0603 10K PM5 R
3906	212211805656	RST SM 0603 RC0603 1K PM5 R

6911	932219981682	LED VS L-3WYGW-8.03* (KIEL) B

General Product Specification

PHILIPS - 150S5
GENERAL PRODUCT
SPECIFICATION

. ANALOG SIGNAL INPUT

. AUTO PICTURE ADJUSTMENT

. 14 FACTORY PRESET MODES AND 15 USER MODES WHICH CAN BE RECOVERED TO PRESET MODES

. USER FRIENDLY OSD DISPLAY FOR MODE IDENTIFICATION /ADJUSTMENT

. DDC2B COMMUNICATION CAPABILITY

. MAX. RESOLUTION 1024 x 768 NON-INTERLACED AT 75 HZ

. 15□ COLOR TFT LCD FLAT PANEL

. EASY TILT & FODABLE BASE

. FULL RANGE POWER SUPPLY 90 - 264 VAC

. CE ENVIRONMENTAL POLICY

. ANTI-GLARE TO REDUCE LIGHT REFLECTION

. POWER MANAGEMENT CAPABILITY

. SOG SYNC SUPPORT

. TCO 99 , TCO 2003

. PROTECTIVE COVER (Option)

CLASS NO.	15 TFT XGA LCD CMTR TYPE : 150S5FG/00 BRAND : PHILIPS			8639 000 15108				
2003-12-05								
NAME JERRY CHEN	SUPERS.		20	590 — 1		10		A4
TY / CHECK	DATE 2003-12-05	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.						

PHILIPS

CONTENTS

CLASS NO.	15 TFT XGA LCD CMTR	8639 000 15108
2003-12-05	TYPE : 150S5FG/00 BRAND : PHILIPS	

NAME JERRY CHEN	SUPERS.	20	590 — 2	10	A4
TY CHECK	DATE 2003-12-05	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.			

General Product Specification

PHILIPS

1.0 FOREWORD

This specification describes a 15□XGA multi-scan color TFT LCD monitor with maximum resolution up to 1024x768/75Hz non-interlaced.

2.0 PRODUCT PROFILE

HUDSON 15□TFT LCD flat panel monitor Analog interface Integrated tilt and foldable base

2.1 LCD

Type NR.	: LG panel LM150*08	
Outline Dimensions	: 326.5(H) * 253.5(V) *11.2(D)mm	
Pitch (mm)	: 0.297 x 0.297 mm	
Color pixel arrangement	: RGB stripe arrangement	
Display surface	: Anti-glare with hard coating(3H)	
Number of color	: 6 bits with FRC, 16M colors	
Backlight	: CCFL edge-light system	
Active area (W x H)	: 304.1x228.1mm(15.0□diagonal)	
Viewing angle (CR ≧10)	: Vertical 100 degree, Horizontal 130 degree typical.	
Contrast ratio	: 400 typical.	
Luminance of white	: 250 Nits typical	

Type NR.	: CPT panel	CLAA150XP01
Dimensions	: 326.5(H)*253.5(V)*11.0(D) mm	
Pitch (mm)	: 0.297 x 0.297 mm	
Color pixel arrangement	: RGB stripe arrangement	
Display surface	: Anti-glare with hard coating(3H)	
Number of color	: 6 bits with FRC, 16M colors	
Backlight	: CCFL edge-light system	
Active area(W x H)	: 304.1 x 228.1mm (15.0□Diagonal)	
Viewing angle(CR≧10)	: Vertical 120 degree, Horizontal 140 degree typical.	
Contrast ratio	: 500 typical.	
Luminance of white	: 250 Nits typical	

2.2	Scanning frequencies	Hor.: 30 □ 61KHz Ver.: 56 □ 76 Hz
2.3	Video dot rate	: 79 MHz
2.4	Power input	: 90 □ 264 Vac, 50/60 ± 3 Hz
2.5	Power consumption	: < 20 W, (typ : 17W) : AC input power < 1W when DC switch is off.
2.6	Dimensions	: 342W x 364H x 170D (Incl. Pedestal)
2.7	Weight	: 2.73Kg

2.8 Function:

Signal input:

Analog R/G/B separate inputs, H/V sync separated, Composite (H+V) TTL level, SOG sync

2.9 Ambient temperature: 5 - 40 °C

2.10 Safety and EMI requirements

Safety requirement: CCIB/CCEE (China), CE (Europe), CSA (Canada), IEC60950 CB Report, NOMNYCE (Mexico), PSB (Singapore), SEMKO (Nordic), TUV (Germany), UL (USA) GOST (Russia), B-MARK (Poland), DEMKO (Nordic), FIMKO (Nordic), SISIR, CPA (Singapore), EZU (Czech)

EMI requirement: BSMI (Taiwan), C-tick (Australia), CE (Europe), FCC (USA), IC (Canada), VCCI (Japan), CCC (China)

Ergonomic Requirement: ISO13406-2, TUV/GS TCO99, MPRII (Sweden), Nutek (Sweden)

Power management: EPA, Nutek, E2000.

Environmental & Low Emission: MPRII, TCO99 , TCO 2003

3.0 Electrical characteristics

Compatibility: PC2001, Windows 2000, Windows98/Me, Windows XP, NSTL

PHILIPS

3.1 Interface signals

3.1.1 Video

Input signal: Video, H-sync, V-sync

Video: 0.7 Vp-p, input impedance, 75 ohm

Sync. : Separate sync TTL level. Input impedance 5k6 ohm

Hor. Sync Positive/Negative

Ver. Sync Positive/Negative

3.1.2 Interface Cable

D-Sub Cable pin assignment:

PIN No.	SIGNAL
1	Red
2	Green/SOG
3	Blue
4	Sense (GND)
5	Test (GND)
6	Red GND
7	Green GND
8	Blue GND
9	+5V
10	Sync GND
11	Sense (GND)
12	Serial data (SDA)
13	H/H+V sync
14	V-sync
15	Data clock (SCL)

3.2 OSD (On Screen Display) function

Adjustable functions:

MAIN CONTROLS
LANGUAGE
ADJUST POSITION
BRIGHTNESS & CONTRAST
VIDEO NOISE
ADJUST COLOR
OSD SETTINGS
PRODUCT INFORMATION
RESET TO FACTORY SETTINGS
INPUT SELECTION
EXIT MAIN CONTROLS
MOVE SELECTION THEN ok

General Product Specification

LANGUAGE: ENGLISH, ESPANOL, FRANCAIS, DEUTSCH, ITALIANO, S.CHINESE

ADJUST POSITION: HORIZONTAL VERTICAL

BRIGHTNESS & CONTRAST: Brightness and Contrast adjustment.

VIDEO NOISE: Phase adjustment, Clock adjustment

ADJUST COLOR: Original panel color,
9300K for general use,
6500k for image management,
sRGB
User red green blue adjustable

OSD POSITION: OSD H-position, OSD V-position
PRODUCT INFORMATION: show the product information
RESET TO FACTORY SETTING: recall to Factory preset settings.

3.3 Timing requirement

3.3.1 Mode storing capacity

(1) Factory preset modes : 14
(2) User modes : 15

3.3.2 Factory preset timings

MODE NO.	1	2	3	4
RESOLUTION Dot clock (MHz)	640 x 350 25.175	720 x 400 28.321	640 x 480 25.175	640x480 30.240
f h A (us) B (us) C (us) D (us) E (us)	31.469kHz 31.78(800 dots) 3.813(96 dots) 1.907(48 dots) 25.42(640 dots) 0.636(16 dots)	31.469kHz 31.78(900dots) 3.813(108dots) 1.907(54dots) 25.42(720dots) 0.636(18dots)	31.469kHz 31.778 (800 dots) 3.813 (96 dots) 1.907 (48 dots) 25.422 (640 dots) 0.636 (16 dots)	35.0kHz 28.571(864 dots) 2.116(64 dots) 3.175(96 dots) 21.164(640 dots) 2.116(64 dots)
f v O (ms) P (ms) Q (ms) R (ms) S (ms)	70Hz(70.09) 14.27(449 lines) 0.064(2 lines) 1.907(60 lines) 11.12(350 lines) 1.179(37 lines)	70Hz(70.087) 14.27(449 lines) 0.064(2 lines) 1.112(35 lines) 12.71(400 lines) 0.384(12 lines)	60Hz (59.940) 16.683 (525 lines) 0.064 (2 lines) 1.049 (33 lines) 15.253 (480 lines) 0.317 (10 lines)	66.7 Hz(66.667) 15.000(525 lines) 0.086(3 lines) 1.114(39 lines) 13.714(480 lines) 0.086(3 lines)
SYNC. H/V POLARITY	+/-	-/+	- / -	+/+ Or -/-
SEP . SYNC	Y	Y	Y	Y

A : H-Total
B : H- Sync width
C : H- Back porch
D : H- Video width
E : H- Front porch

O : V-Total
P : V- Sync width
Q :.V- Back porch
R : V- Video width
S :.V- Front porch

MODE NO.	5	6	7	8
RESOLUTION Dot clock(MHz)	640 x 480 31.500	640 x 480 31.500	800 x 600 36.000	800 x 600 40.000
f h A (us) B (us) C (us) D (us) E (us)	37.861kHz 26.413(832 dots) 1.270(40 dots) 4.064(128 dots) 20.317(640 dots) 0.762(24 dots)	37.500kHz 26.667 (840 dots) 2.032 (64 dots) 3.810 (120 dots) 20.317 (640 dots) 0.508 (16 dots)	35.156kHz 28.44 (1024 dots) 2.000 (72 dots) 3.556 (128 dots) 22.22 (800 dots) 0.667 (24 dots)	37.879kHz 26.40 (1056 dots) 3.200 (128 dots) 2.200 (88 dots) 20.00 (800 dots) 1.000 (40 dots)
f v O (ms) P (ms) Q (ms) R (ms) S (ms)	72.809Hz 13.735(520 lines) 0.079(3 lines) 0.739(28 lines) 12.678(480 lines) 0.237(9 lines)	75Hz (75) 13.333 (500 lines) 0.080 (3 lines) 0.427 (16 lines) 12.80 (480 lines) 0.027 (1 line)	56Hz (56.25) 17.78 (625 lines) 0.057 (2 lines) 0.626 (22 lines) 17.07 (600 lines) 0.028 (1 line)	60Hz (60.316) 16.58 (628 lines) 0.106 (4 lines) 0.607 (23 lines) 15.84 (600 lines) 0.026 (1 line)
SYNC. H/V POLARITY	-/-	- / -	+ / +	+ / +
SEP . SYNC	Y	Y	Y	Y

CLASS NO.

15□TFT XGA LCD CMTR

TYPE : 150S5FG/00
BRAND : PHILIPS

8639 000 15108

2003-12-05

NAME JERRY CHEN | SUPERS. | 20 | 590 — 5 | 10 | A4

TY | CHECK | DATE 2003-12-05 | Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.

MODE NO.	9	10	11	12
RESOLUTION	800 x 600	800 x 600	832 x 624	1024 x 768
Dot clock(MHz)	50.000	49.500	57.280	65.000
f h	48.077kHz	46.875kHz	49.722kHz	48.363kHz
A (us)	20.80 (1040dots)	21.333 (1056dots)	20.11 (1152dots)	20.677(1344 dots)
B (us)	2.400 (120 dots)	1.616 (80 dots)	1.117 (64 dots)	2.092(136 dots)
C (us)	1.280 (64 dots)	3.232 (160 dots)	3.911 (224 dots)	2.462(160 dots)
D (us)	16.00 (800 dots)	16.162 (800 dots)	14.52 (832 dots)	15.754(1024 dots)
E (us)	1.120 (56 dots)	0.323 (16 dots)	0.559 (32 dots)	0.369(24 dots)
f v	72Hz (72.188)	75Hz (75.000)	75Hz (74.546)	60.004Hz
O (ms)	13.85 (666 lines)	13.333 (625lines)	13.41 (667 lines)	16.666(806 lines)
P (ms)	0.125 (6 lines)	0.064 (3 lines)	0.060 (3 lines)	0.124(6 lines)
Q (ms)	0.478 (23 lines)	0.448 (21 lines)	0.784 (39 lines)	0.600(29 lines)
R (ms)	12.48 (600 lines)	12.80 (600lines)	12.55 (624 lines)	15.880(768 lines)
S (ms)	0.770 (37 line)	0.021 (1 line)	0.020 (1 lines)	0.062(3 lines)
SYNC. H/V POLARITY	+ / +	+ / +	- / -	-/-
SEP . SYNC	Y	Y	Y	Y

MODE NO.	13	14
RESOLUTION	1024 x 768	1024 x 768
Dot clock(MHz)	75.000	78.750
f h	56.476kHz	60.023kHz
A (us)	17.707(1328 dots)	16.66 (1312dots)
B (us)	1.813(136 dots)	1.219 (96 dots)
C (us)	1.920(144 dots)	2.235 (176 dots)
D (us)	13.653(1024 dots)	13.003 (1024dots)
E (us)	0.320(24 dots)	0.203 (16 dots)
f v	70.069Hz	75Hz (75.029)
O (ms)	14.272(806 lines)	13.328 (800 lines)
P (ms)	0.106(6 lines)	0.050 (3 lines)
Q (ms)	0.513(29 lines)	0.466 (28 lines)
R (ms)	13.599(768 lines)	12.795 (768 lines)
S (ms)	0.053(3 lines)	0.017 (1 line)
SYNC. H/V POLARITY	-/-	+/+
SEP . SYNC	Y	Y

3.3.3 Horizontal scanning
- Sync polarity : Positive or Negative
- Scanning frequency : 30 - 61 KHz

3.3.4 Vertical scanning
- Sync polarity : Positive or Negative
- Scanning frequency : 56 - 76 Hz

3.4 Power input connection
- Power cord length : 1.8 M
- Power cord type : 3 leads power cord with protective earth plug.

3.5 Power management

The power consumption and the status indication of the set with power management function are as follows,

STATUS	H-sync	V-sync	Video	Power	LED/Remark
On	On	On	Active	<20 W	Green / Without Audio
Stand-by	Off	On	Blanked	<1W	Amber
Suspend	On	Off	Blanked	<1W	Amber
Off	Off	Off	Blanked	<1W	Amber
DC Power off			N / A	<1W	LED Off

General Product Specification

3.6 Display identification
In accordance with DVI requirement, use DDC2B and EDID 3.0 structure 1.3.

4.0 Visual characteristics
4.1 Test conditions
Unless otherwise specified, this specification is defined under the following conditions.

(1) Input signal : As defined in 3.3, 1024 x 768/75Hz mode (60.023 KHz)
Signal sources must have 75 ohms output impedance.

(2) Luminance setting: Set contrast to 50 % and brightness to100 % with full white pattern.

(3) Warm-up: more than 30 minutes after power on with signal supplied.

(4) Ambient light: 400 -- 600 lux.

(5) Ambient temperature: 25 □ 5 °C

4.2 Resolution
Factory preset modes (14 modes)

Mode	Resolution	H. freq. / V. freq	Standard
1.	640 x 350	31.469Khz/70.087Hz	VGA
2.	720 x 400	31.469Khz/70.087Hz	VGA
3.	640 x 480	31.469Khz/59.940Hz	VGA
4.	640 x 480	35.000Khz/66.667Hz	Macintosh
5.	640 x 480	37.861Khz/72.809Hz	VESA
6.	640 x 480	37.500Khz/75.000Hz	VESA
7.	800 x 600	35.156Khz/56.250Hz	VESA
8.	800 x 600	37.879Khz/60.317Hz	VESA
9.	800 x 600	48.077Khz/72.188Hz	VESA
10.	800 x 600	46.875Khz/75.000Hz	VESA
11.	832 x 624	49.700Khz/75.000Hz	Macintosh
12.	1024 x 768	48.363Khz/60.004Hz	VESA
13.	1024 x 768	56.476Khz/70.069Hz	VESA
14.	1024 x 768	60.023Khz/75.029Hz	VESA

4.3 Brightness: 250 nits (typ.) at maximum contrast and maximum brightness
(At center of the screen, Fig. 1)

4.4 Image size
4.4.1 Actual display size
304.1 x 228.1mm

4.5 Brightness uniformity

Set contrast at 50% and tun the brightness to get above 200 nits. at center of the screen
Apply the Fig 1, it should comply with the following formula:

$$\frac{\text{Minimum (B1, B2,.., B5)}}{\text{Maximum (B1, B2,.., B5)}} > 75\ \%$$

4.6 White color adjustment

There are two factory preset white color 9300K and 6500K.

Apply full white pattern, with brightness in 100 % position and the contrast control at 50 %.
The 1931 CIE Chromaticity (color triangle) diagram (x, y) coordinate for the screen center should be:

9300K CIE coordinates X = 0.283 □ 0.020
Y = 0.297 □ 0.020

6500K CIE coordinates X = 0.313 □ 0.020
Y = 0.329 □ 0.020

PHILIPS

4.7 Monitors pixel defect
Refer to Philips Flat Panel Monitors Pixel Defect Policy

5.0 Mechanical characteristics
5.1 Controls
Front: - DC power switch
-OSD function key

Rear: -Video signal cable
-Power cord socket
-DC 12V fly in

5.2 Unit dimension / Weight
Set dimension (incl. pedestal): 342W x 364H x 170D
Net weight: 2.73 Kg

5.3 Tilt and foldable base
Tilt angle: -5 ° to +25 °
Foldable angle: 90°

5.4 Transportation packages
5.4.1 Shipping dimension/Weight
Carton dimension: 374W x 398H x 145D
Gross weight: 3.58Kg

5.4.2 Block unit / Palletization

layers/block	sets/layer	sets/block unit
18	6	108
17	6	102

6.0 Environmental characteristics
The following sections define the interference and susceptibility condition limits that might occur between external environment and the display device.

6.1 Susceptibility of display to external environment
Operating
- Temperature : 5 to 40 degree C
- Humidity : 20% ~ 80%
- Altitude : 0-12,000 feet
- Air pressure : 600-1100 mBAR

Storage
- Temperature : -20 to 60 degree C
- Humidity : 5% ~ 95% (< 40)
- Altitude : 0-30,000 feet
- Air pressure : 300-1100 mBAR

Note: recommend at 5 to 35°C, Humidity less than 60 %

6.2 Transportation tests

Standard		Philips UAN-D1400	NSTA
Drop Test	Height	67/25 cm	76.0 cm
	Sequence	1 face(btm-67cm) 5 faces(others-25cm) Btm->Btm->Btm->L->F->Rt->Rr->Top	1 corner 3 edge (Room temp) 6 face
	Test Result	Electrical function ok Mechanical function ok No serious damage on set appearance (Room temp 20C~23C, humidity 40%~65%)	
Vibration Test	Sequence	(1) PACKAGING 7 Hz, 1.05 G, 30 min. for transport direction only	
		(2) OPERATING 7 Hz, 10.6 mm, 30 min. for transport direction only	
	Test Result	Electrical function ok Mechanical function ok No serious damage on set appearance	
Bump Test	For design evaluation only Operating 10 G, 11 msec, 1000 cycles Temperature : 23C Humidity : 60 % Air pressure : 100 kpa (According to DSD draft standard UAN-D636)		

6.3 Display disturbances from external environment
According to IEC 801-2 for ESD disturbances

6.4 Display disturbances to external environment

6.4.1 EMI
EMI: FCC, IC, VCCI, CE, C-Tick, MPRII, BSMI, CCC (China)

7.0 Reliability

7.1 Mean time between failures (MTBF)
System MTBF (Excluding the LCD panel and CCFL): 50,000 hrs
CCFL MTBF: 30,000 hrs

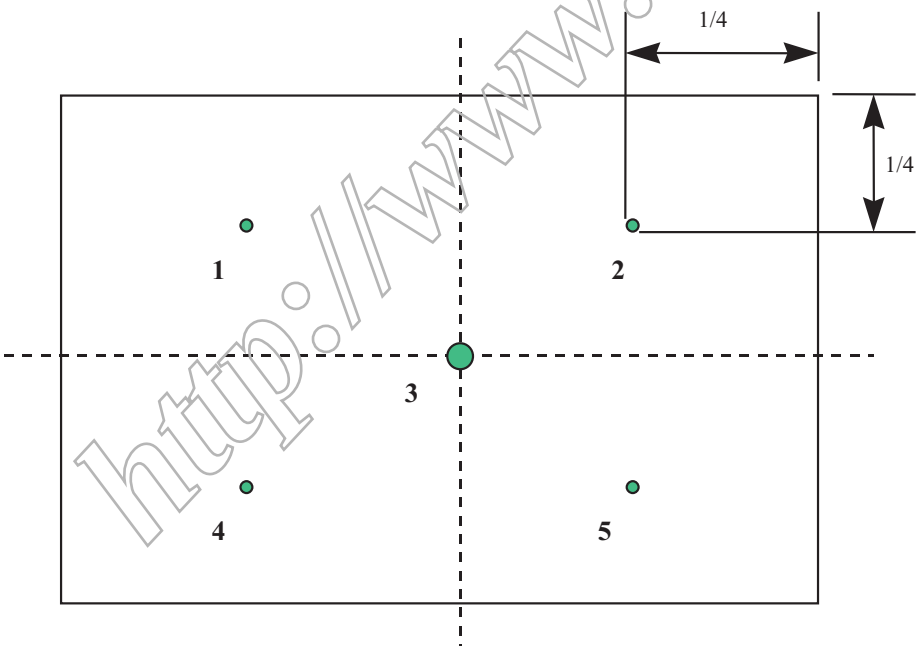
8.0 Quality assurance requirements

8.1 Acceptance test
According to MIL-STD-105D Control II level

AQL : 0.65 (major)
1.5 (minor)
(Please also refer to annual quality agreement)

9.0 Serviceability
The serviceability of this monitor should fulfill the requirements which are prescribed in UAW-0346 and must be checked with the check list UAT-0361.

Fig 1: Brightness and Uniformity

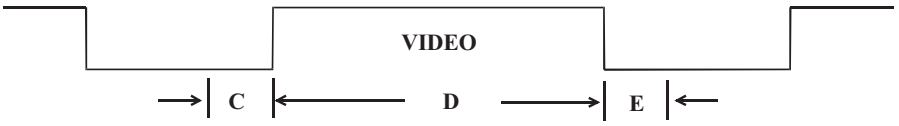


Average: 5 points average

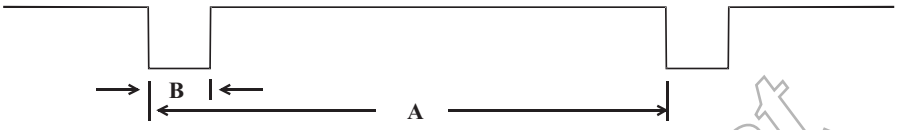
CLASS NO.	15 TFT XGA LCD CMTR	8639 000 15108						
2003-12-05	TYPE : 150S5FG/00 BRAND : PHILIPS							
NAME JERRY CHEN	SUPERS.	20	590 — 9	10		A4		
TY CHECK	DATE 2003-12-05	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.						

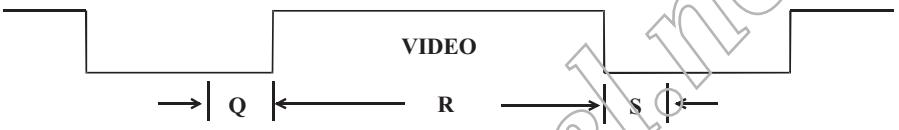
PHILIPS

SEPARATE SYNC.



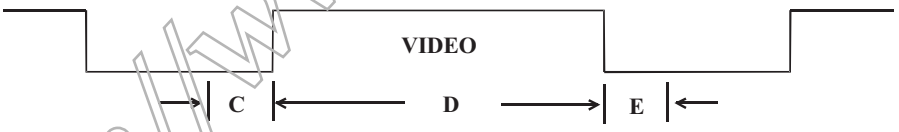
HORIZONTAL





VERTICAL

COMPOSITE SYNC.



HORIZONTAL

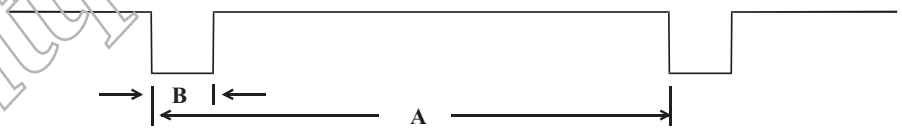


FIG-2 TIMING CHART -1

CLASS NO.	15 TFT XGA LCD CMTR TYPE : 150S5FG/00 BRAND : PHILIPS	8639 000 15108
2003-12-05		

NAME JERRY CHEN	SUPERS.	20	590 — 10	10		A4
TY CHECK	DATE 2003-12-05	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.				

2838 100 05424

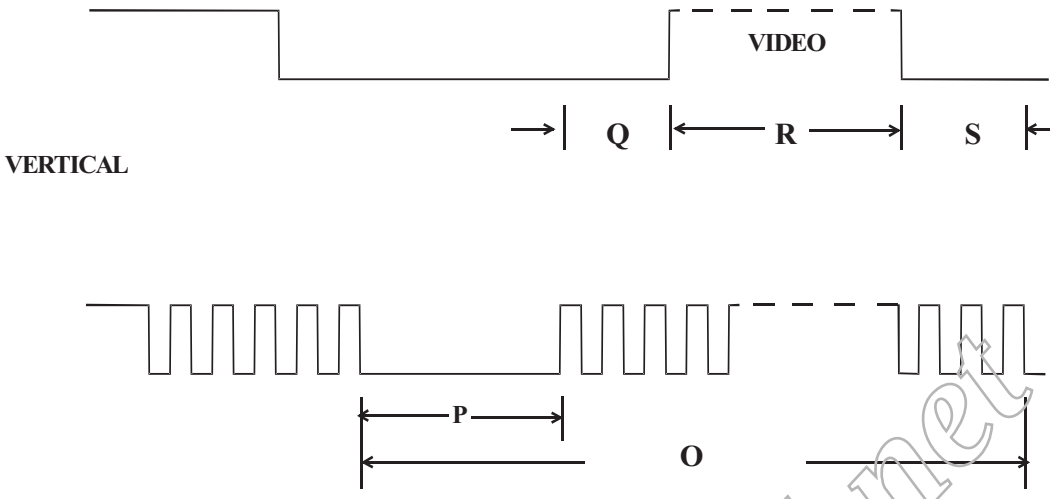


FIG-3 TIMING CHART -2

CLASS NO.	15 TFT XGA LCD CMTR TYPE : 150S5FG/00 BRAND : PHILIPS	8639 000 15108
2003-12-05		
NAME JERRY CHEN	SUPERS.	20 590 — 11 10 A4
TY CHECK	DATE 2003-12-05	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-C.E.

PHILIPS

Philips Flat Panel Monitors Pixel Defect Policy

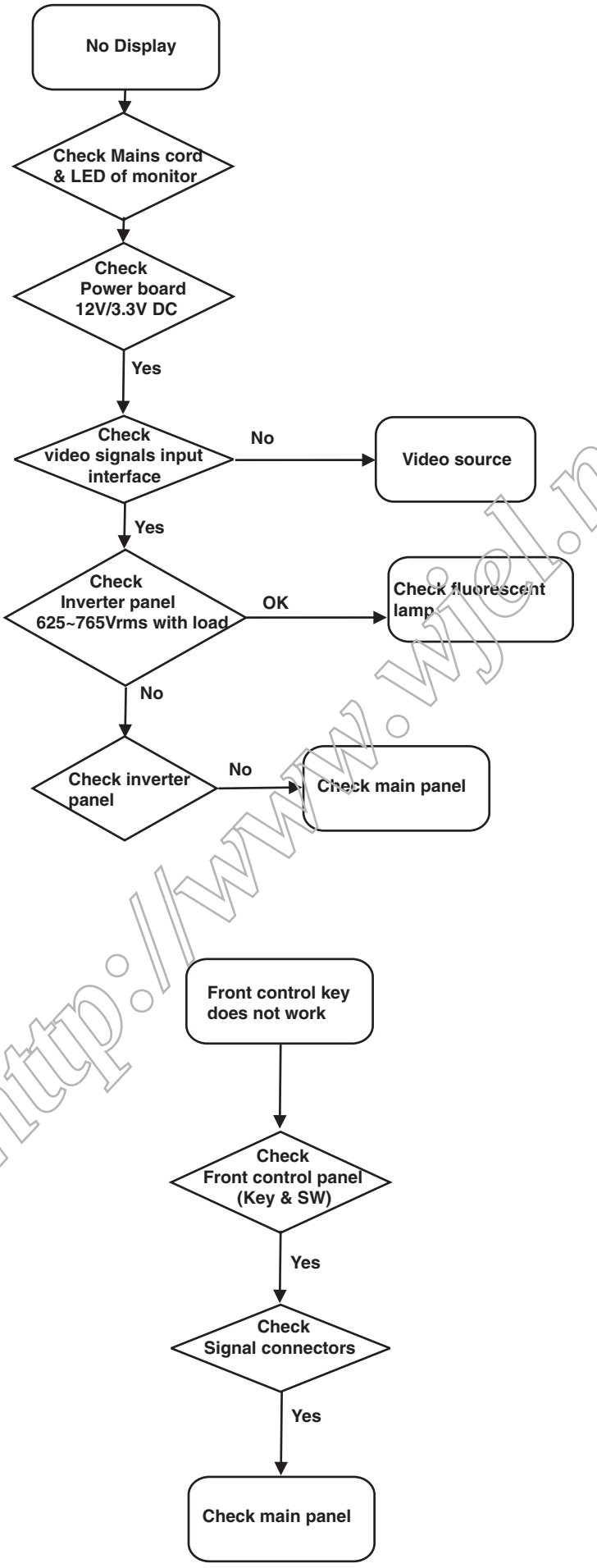
BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL		
MODEL	150P	150B	150S
1 lit sub-pixel	0	0	8 or fewer
2 adjacent lit sub-pixels	0	0	3 or fewer
3 adjacent lit sub-pixels (one white pixel)	0	0	1 or fewer
Distance between two bright dot defects*	0	0	15mm or more
Bright dot defects within 20 mm circle	0	0	3 or fewer
Total bright dot defects of all type	0	0	8 or fewer

BLACK DOT DEFECTS	ACCEPTABLE LEVEL		
MODEL	150P	150B	150S
1 dark sub-pixel	4 or fewer	4 or fewer	8 or fewer
2 adjacent dark sub-pixels	1 or fewer	1 or fewer	3 or fewer
3 adjacent dark sub-pixels (one white pixel)	0	0	1 or fewer
Distance between two black dot defects*	15mm or more	15mm or more	15mm or more
Black dot defects within 20 mm circle*	3 or fewer	3 or fewer	3 or fewer
Total black dot defects of all type	4 or fewer	4 or fewer	8 or fewer

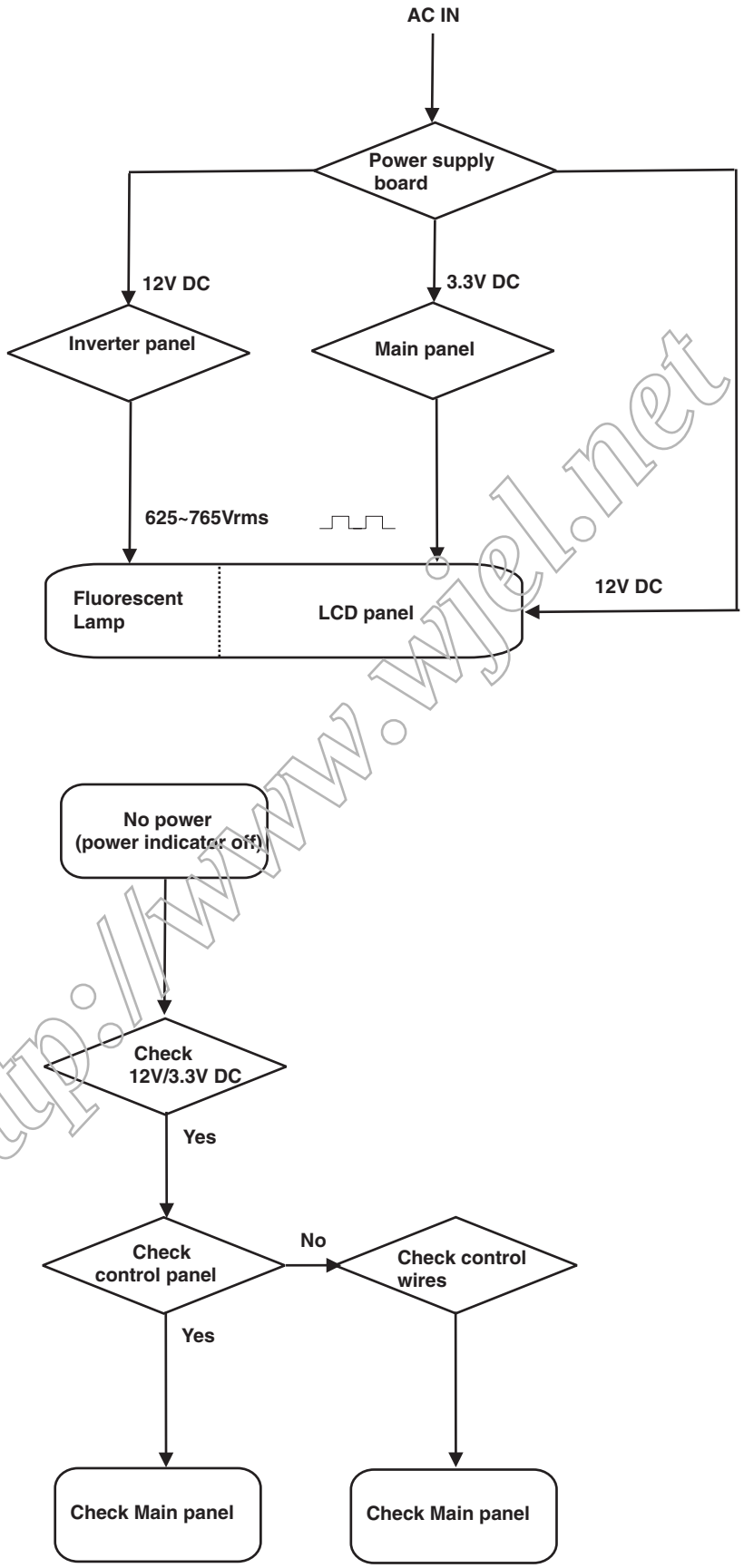
TOTAL DOT DEFECTS	ACCEPTABLE LEVEL		
MODEL	150P	150B	150S
Total bright or black dot defects of all type	4 or fewer	4 or fewer	10 or fewer

* 1 or 2 adjacent sub-pixel defects = 1 dot defect

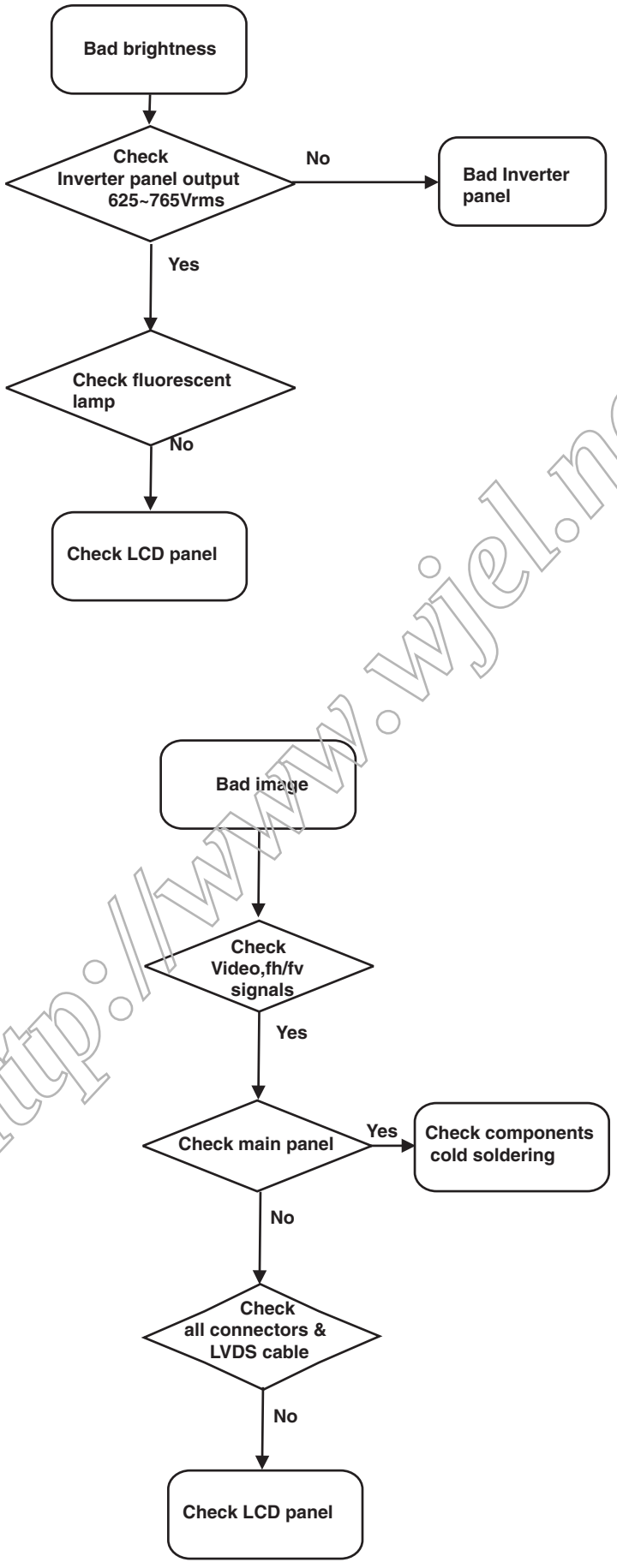
Repair Flow Chart



Repair Flow Chart



Repair Flow Chart



Diversity of 150S5FS/00 comparing with 150S5FG/00		
Item	12NC	Description
	863900015111	150S5FS/00
30	313815756451	BEZEL ASSY(S)
31	313815412431	BEZEL(S)
40	313815756461	BACK COVER ASSY(B)
41	313815412441	BACK COVER(B)
50	313815756431	FOLDABLE BASE(B)
101	313815412451	HINGE COVER(B)
126	313815562721	RATING LABEL
1157	313812874931	MAINSCORD
1157	313818870471	MAINSCORD IEC 10A 1M8 DET BK
1158	313819871181	CORD SUB-D 15/1M8/SUB-D 15 BK
1158	313819871251	CORD SUB-D 15/1M8/SUB-D 15 BK
Diversity of 150S5FG/93 comparing with 150S5FG/00		
Item	12NC	Description
	863900015224	150S5FG/93
30	313815756671	BEZEL ASSY(T)
40	313815756081	BACK COVER ASSY
126	313815562871	RATING LABEL
130	313810539241	PASS CARD LABEL
131	313810540721	QUALITY ASSURANCE CARD
450	313815637161	CARTON(150S5)
451	313815637171	CUSHION-R
452	313815637181	CUSHION-L
510	313815637161	CARTON(150S5)
1157	313818877651	MAINSCORD CHIN 10A 1M83 DET GY
Diversity of 150S5FS/93 comparing with 150S5FG/00		
Item	12NC	Description
	863900015226	150S5FS/93
30	313815756451	BEZEL ASSY(S)
31	313815412431	BEZEL(S)
40	313815756461	BACK COVER ASSY(B)
41	313815412441	BACK COVER(B)
50	313815756801	FOLDABLE BASE(S)
101	313815412881	HINGE COVER(S)
126	313815562891	RATING LABEL
130	313810539241	PASS CARD LABEL
131	313810540721	QUALITY ASSURANCE CARD
450	313815637161	CARTON(150S5)
451	313815637171	CUSHION-R
452	313815637181	CUSHION-L
510	313815637161	CARTON(150S5)
1157	313818871651	MAINSCORD CCEE 10A 1M8 DET BK
1158	313819871181	CORD SUB-D 15/1M8/SUB-D 15 BK
1158	313819871251	CORD SUB-D 15/1M8/SUB-D 15 BK
Diversity of 150S5FB/27 comparing with 150S5FG/00		
Item	12NC	Description
	863900015249	150S5FB/27
30	313815756441	BEZEL ASSY(B)
31	313815412421	BEZEL(B)
40	313815756461	BACK COVER ASSY(B)
41	313815412441	BACK COVER(B)
50	313815756431	FOLDABLE BASE(B)
101	313815412451	HINGE COVER(B)
126	313815562851	RATING LABEL
1157	313812874901	MAINSCORD
1157	313818870491	MAINSCORD UL 10A 1M8 DET BK
1158	313819871181	CORD SUB-D 15/1M8/SUB-D 15 BK
1158	313819871251	CORD SUB-D 15/1M8/SUB-D 15 BK
1167	242203300265	CON ACC ADP V 15P F MA-002 B

Diversity of 150S5FG/27 comparing with 150S5FG/00		
Item	12NC	Description
	863900015251	150S5FG/2
126	313815562861	RATING LABEL
1157	313812876071	MAINSCORD UL 10A 1M8 DET GY
1157	313818870481	MAINSCORD UL 10A 1M8 DET TDS
1167	242203300265	CON ACC ADP V 15P F MA-002 B
Diversity of 150B5CG/00 comparing with 150S5FG/00		
Item	12NC	Description
	863900015103	150B5CG/00
30	313815755941	BEZEL ASSY(T)
31	313815411741	BEZEL(T)
35	313815411761	STRIPE
40	313815755951	BACK COVER ASSY(T)
41	313815411751	BACK COVER(T)
43	313815756231	HINGE-PLATE ASSY
44	313815135131	HINGE-PLATE
45	313815132901	SPRING-EMI
46	313815135071	KINGSTON PLATE
50	313815755961	COMPACT BASE(T)
101	313815411801	HINGE COVER(T)
141	313815522761	QUICK SETUP GUIDE
210	313800991451	PROCESS BOX
280	313800991431	PROCESS BOX
291	313815562831	LABEL(LG)
291	313815562841	LABEL(CPT)
291	313815562841	LABEL(CPT)
295	313815562831	LABEL(LG)
295	313815562841	LABEL(CPT)
295	313815562841	LABEL(CPT)
301	313815135341	MAIN FRAME
302	313810167901	ALUMINUM FOIL
450	313815636591	CARTON-150B5
451	313815636601	CUSHION-TOP
452	313815636611	CUSHION-BTM
510	313815636591	CARTON-150B5
615	313811706741	HEX CODE OF F/W(NO MATEL REQ.)
616	313811706751	HEX CODE OF F/W(NO MATEL REQ.)
1051	313815858931	SCALER ASSY
1051	313815858821	SCALER ASSY
1053	313815857641	AUDIO+CONTROL ASSY
1158	313819871441	CORD SUB-D 15/1M8/15 D-SUB GY
1158	313819871461	CORD SUB-D 15/1M8/SUB-D 15 GY
1160	313815859441	METAL FRAME+WIRE ASSY
1162	313818875031	SPEAKER CABLE(GRAY)
1163	823827714821	LSP BOX 16R 1.5W-L/R(PS-010016
1163	823827714841	LSP BOX 16R 1.5-L/R(P011U)
1201	242203300521	SOC DVI H 24P F 1.91DVI-D Y
1201	242203300525	SOC DVI H 24P F 1.91DVI-D Y
1301	242248680959	SOC IC V 32P F 1.27 PLCC B
1410	243854300093	RES XTL SM 14M31818 7P SMD49 R
1410	243854300086	RES XTL SM 14M318 18P HC49/S R
1411	242202505572	CON H 30P M 1.25 SM 60952 R
1411	313818877611	CON BM H 30P M 1.25 60934
1503	313816872071	11P WAFER M242611(VERT)
2209	223878615649	CER2 0603 X7R 16V 100N PM10 R
2211	223886715331	CER1 0603 NP0 50V 330P PM5 R
2212	223886715331	CER1 0603 NP0 50V 330P PM5 R
2214	223878615649	CER2 0603 X7R 16V 100N PM10 R
2216	223886715331	CER1 0603 NP0 50V 330P PM5 R
2217	223886715331	CER1 0603 NP0 50V 330P PM5 R
2220	223878615649	CER2 0603 X7R 16V 100N PM10 R
2231	223858615636	CER2 0603 X7R 50V 10N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R

Different Parts List

2235	223878615649	CER2 0603 X7R 16V 100N PM10 R
2301	223878615649	CER2 0603 X7R 16V 100N PM10 R
2302	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	202001293721	ELCAP SM RV2 16V 10U PM20 R
2401	202202000789	ELCAP SM LV 16V 10U PM20 R
2401	202202000756	ELCAP SM RV2 16V 10U PM20 R
2402	202001293721	ELCAP SM RV2 16V 10U PM20 R
2402	202202000789	ELCAP SM LV 16V 10U PM20 R
2402	202202000756	ELCAP SM RV2 16V 10U PM20 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2404	223878615649	CER2 0603 X7R 16V 100N PM10 R
2405	223878615649	CER2 0603 X7R 16V 100N PM10 R
2406	223878615649	CER2 0603 X7R 16V 100N PM10 R
2407	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	202001293721	ELCAP SM RV2 16V 10U PM20 R
2408	202202000789	ELCAP SM LV 16V 10U PM20 R
2408	202202000756	ELCAP SM RV2 16V 10U PM20 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2410	223878615649	CER2 0603 X7R 16V 100N PM10 R
2411	223878615649	CER2 0603 X7R 16V 100N PM10 R
2412	223878615649	CER2 0603 X7R 16V 100N PM10 R
2413	223878615649	CER2 0603 X7R 16V 100N PM10 R
2418	202001293721	ELCAP SM RV2 16V 10U PM20 R
2418	202202000789	ELCAP SM LV 16V 10U PM20 R
2418	202202000756	ELCAP SM RV2 16V 10U PM20 R
2419	223878615649	CER2 0603 X7R 16V 100N PM10 R
2420	202001293721	ELCAP SM RV2 16V 10U PM20 R
2420	202202000789	ELCAP SM LV 16V 10U PM20 R
2420	202202000756	ELCAP SM RV2 16V 10U PM20 R
2421	223878615649	CER2 0603 X7R 16V 100N PM10 R
2422	202001293721	ELCAP SM RV2 16V 10U PM20 R
2422	202202000789	ELCAP SM LV 16V 10U PM20 R
2422	202202000756	ELCAP SM RV2 16V 10U PM20 R
2423	223878615649	CER2 0603 X7R 16V 100N PM10 R
2424	223878615649	CER2 0603 X7R 16V 100N PM10 R
2425	223878615649	CER2 0603 X7R 16V 100N PM10 R
2426	223878615649	CER2 0603 X7R 16V 100N PM10 R
2427	223878615649	CER2 0603 X7R 16V 100N PM10 R
2428	202001293721	ELCAP SM RV2 16V 10U PM20 R
2428	202202000789	ELCAP SM LV 16V 10U PM20 R
2428	202202000756	ELCAP SM RV2 16V 10U PM20 R
2429	202001293721	ELCAP SM RV2 16V 10U PM20 R
2429	202202000789	ELCAP SM LV 16V 10U PM20 R
2429	202202000756	ELCAP SM RV2 16V 10U PM20 R
2430	202001293721	ELCAP SM RV2 16V 10U PM20 R
2430	202202000789	ELCAP SM LV 16V 10U PM20 R
2430	202202000756	ELCAP SM RV2 16V 10U PM20 R
2431	223878615649	CER2 0603 X7R 16V 100N PM10 R
2432	223878615649	CER2 0603 X7R 16V 100N PM10 R
2433	223878615649	CER2 0603 X7R 16V 100N PM10 R
2434	223878615649	CER2 0603 X7R 16V 100N PM10 R
2435	202001293721	ELCAP SM RV2 16V 10U PM20 R
2435	202202000789	ELCAP SM LV 16V 10U PM20 R
2435	202202000756	ELCAP SM RV2 16V 10U PM20 R
2436	223878615649	CER2 0603 X7R 16V 100N PM10 R
2437	202001293721	ELCAP SM RV2 16V 10U PM20 R
2437	202202000789	ELCAP SM LV 16V 10U PM20 R
2437	202202000756	ELCAP SM RV2 16V 10U PM20 R
2438	223878615649	CER2 0603 X7R 16V 100N PM10 R
2439	202001293721	ELCAP SM RV2 16V 10U PM20 R
2439	202202000789	ELCAP SM LV 16V 10U PM20 R
2439	202202000756	ELCAP SM RV2 16V 10U PM20 R
2440	223878615649	CER2 0603 X7R 16V 100N PM10 R
2441	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	223878615649	CER2 0603 X7R 16V 100N PM10 R
2446	223878615649	CER2 0603 X7R 16V 100N PM10 R
2448	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2451	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2453	223858615636	CER2 0603 X7R 50V 10N PM10 R
2454	223858615636	CER2 0603 X7R 50V 10N PM10 R
2455	223858615636	CER2 0603 X7R 50V 10N PM10 R
2456	223858615636	CER2 0603 X7R 50V 10N PM10 R
2503	202001293747	ELCAP SM RV2 25V 47U PM20 R
2503	202202000788	ELCAP SM LV 25V 47U PM20 R
2503	202202000781	ELCAP SM RV2 25V 47U PM20 R
2504	223878615649	CER2 0603 X7R 16V 100N PM10 R
2506	202001293747	ELCAP SM RV2 25V 47U PM20 R
2506	202202000788	ELCAP SM LV 25V 47U PM20 R
2506	202202000781	ELCAP SM RV2 25V 47U PM20 R
2507	223878615649	CER2 0603 X7R 16V 100N PM10 R
2508	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	202001293747	ELCAP SM RV2 25V 47U PM20 R
2509	202202000788	ELCAP SM LV 25V 47U PM20 R
2509	202202000781	ELCAP SM RV2 25V 47U PM20 R
2510	223878615649	CER2 0603 X7R 16V 100N PM10 R
2511	223878615649	CER2 0603 X7R 16V 100N PM10 R
2512	223878615649	CER2 0603 X7R 16V 100N PM10 R
2513	223878615649	CER2 0603 X7R 16V 100N PM10 R
2514	223878615649	CER2 0603 X7R 16V 100N PM10 R
2515	223878615649	CER2 0603 X7R 16V 100N PM10 R
2516	223878615649	CER2 0603 X7R 16V 100N PM10 R
2517	223878615649	CER2 0603 X7R 16V 100N PM10 R
2518	223878615649	CER2 0603 X7R 16V 100N PM10 R
2519	223878615649	CER2 0603 X7R 16V 100N PM10 R
2520	223858615636	CER2 0603 X7R 50V 10N PM10 R
2521	202001293747	ELCAP SM RV2 25V 47U PM20 R
2521	202202000788	ELCAP SM LV 25V 47U PM20 R
2521	202202000781	ELCAP SM RV2 25V 47U PM20 R
3201	232270260102	RST SM 0603 RC21 1K PM5 R
3201	212211805656	RST SM 0603 RC0603 1K PM5 R
3202	232270260103	RST SM 0603 RC21 10K PM5 R
3202	212211805669	RST SM 0603 RC0603 10K PM5 R
3203	232270260103	RST SM 0603 RC21 10K PM5 R
3203	212211805669	RST SM 0603 RC0603 10K PM5 R
3204	232270260103	RST SM 0603 RC21 10K PM5 R
3204	212211805669	RST SM 0603 RC0603 10K PM5 R
3205	232270260223	RST SM 0603 RC21 22K PM5 R
3205	212211805674	RST SM 0603 RC0603 22K PM5 R
3206	232270260101	RST SM 0603 RC21 100R PM5 R
3206	212211805643	RST SM 0603 RC0603 100R PM5 R
3207	232270260101	RST SM 0603 RC21 100R PM5 R
3207	212211805643	RST SM 0603 RC0603 100R PM5 R
3208	232270260102	RST SM 0603 RC21 1K PM5 R
3208	212211805656	RST SM 0603 RC0603 1K PM5 R
3209	232270260104	RST SM 0603 RC21 100K PM5 R
3209	212211805683	RST SM 0603 RC0603 100K PM5 R
3210	232270260101	RST SM 0603 RC21 100R PM5 R
3210	212211805643	RST SM 0603 RC0603 100R PM5 R
3211	232270260101	RST SM 0603 RC21 100R PM5 R
3211	212211805643	RST SM 0603 RC0603 100R PM5 R
3212	232270260103	RST SM 0603 RC21 10K PM5 R
3212	212211805669	RST SM 0603 RC0603 10K PM5 R
3214	232270260472	RST SM 0603 RC21 4K7 PM5 R
3214	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3215	232270260103	RST SM 0603 RC21 10K PM5 R

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3215	212211805669	RST SM 0603 RC0603 10K PM5 R
3216	232270260101	RST SM 0603 RC21 100R PM5 R
3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	232270260101	RST SM 0603 RC21 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3219	232270260103	RST SM 0603 RC21 10K PM5 R
3219	212211805669	RST SM 0603 RC0603 10K PM5 R
3220	232270260223	RST SM 0603 RC21 22K PM5 R
3220	212211805674	RST SM 0603 RC0603 22K PM5 R
3221	232270260103	RST SM 0603 RC21 10K PM5 R
3221	212211805669	RST SM 0603 RC0603 10K PM5 R
3222	232270260103	RST SM 0603 RC21 10K PM5 R
3222	212211805669	RST SM 0603 RC0603 10K PM5 R
3223	232270260101	RST SM 0603 RC21 100R PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	232270260101	RST SM 0603 RC21 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R
3225	232270260101	RST SM 0603 RC21 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	232270260101	RST SM 0603 RC21 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	232270260222	RST SM 0603 RC21 2K2 PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	232270260222	RST SM 0603 RC21 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	232270260104	RST SM 0603 RC21 100K PM5 R
3229	212211805683	RST SM 0603 RC0603 100K PM5 R
3230	232270260102	RST SM 0603 RC21 1K PM5 R
3230	212211805656	RST SM 0603 RC0603 1K PM5 R
3232	232270260101	RST SM 0603 RC21 100R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232270467509	RST SM 0603 RC22H 75R PM1 R
3233	212211805964	RST SM 0603 RC0603 75R PM1 R
3234	232270260339	RST SM 0603 RC21 33R PM5 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232270467509	RST SM 0603 RC22H 75R PM1 R
3235	212211805964	RST SM 0603 RC0603 75R PM1 R
3236	232270260101	RST SM 0603 RC21 100R PM5 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232270467509	RST SM 0603 RC22H 75R PM1 R
3237	212211805964	RST SM 0603 RC0603 75R PM1 R
3238	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3238	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3239	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3239	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3240	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3240	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3242	232270260101	RST SM 0603 RC21 100R PM5 R
3242	212211805643	RST SM 0603 RC0603 100R PM5 R
3244	232270260101	RST SM 0603 RC21 100R PM5 R
3244	212211805643	RST SM 0603 RC0603 100R PM5 R
3301	232270260103	RST SM 0603 RC21 10K PM5 R
3301	212211805669	RST SM 0603 RC0603 10K PM5 R
3302	232270260103	RST SM 0603 RC21 10K PM5 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3316	232270260103	RST SM 0603 RC21 10K PM5 R
3316	212211805669	RST SM 0603 RC0603 10K PM5 R
3321	232270260103	RST SM 0603 RC21 10K PM5 R
3321	212211805669	RST SM 0603 RC0603 10K PM5 R
3322	232270260103	RST SM 0603 RC21 10K PM5 R
3322	212211805669	RST SM 0603 RC0603 10K PM5 R
3323	232270260103	RST SM 0603 RC21 10K PM5 R
3323	212211805669	RST SM 0603 RC0603 10K PM5 R
3324	232270260103	RST SM 0603 RC21 10K PM5 R
3324	212211805669	RST SM 0603 RC0603 10K PM5 R

3325	232270260103	RST SM 0603 RC21 10K PM5 R
3325	212211805669	RST SM 0603 RC0603 10K PM5 R
3326	232270260101	RST SM 0603 RC21 100R PM5 R
3326	212211805643	RST SM 0603 RC0603 100R PM5 R
3327	232270260101	RST SM 0603 RC21 100R PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3401	232270260101	RST SM 0603 RC21 100R PM5 R
3401	212211805643	RST SM 0603 RC0603 100R PM5 R
3402	232270260101	RST SM 0603 RC21 100R PM5 R
3402	212211805643	RST SM 0603 RC0603 100R PM5 R
3404	232270260121	RST SM 0603 RC21 120R PM5 R
3404	212211805644	RST SM 0603 RC0603 120R PM5 R
3405	232270260121	RST SM 0603 RC21 120R PM5 R
3405	212211805644	RST SM 0603 RC0603 120R PM5 R
3406	232270260121	RST SM 0603 RC21 120R PM5 R
3406	212211805644	RST SM 0603 RC0603 120R PM5 R
3408	232270461002	RST SM 0603 RC22H 1K PM1 R
3408	212211805965	RST SM 0603 RC0603 1K PM1 R
3409	232270260479	RST SM 0603 RC21 47R PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3449	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3449	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3501	232270260479	RST SM 0603 RC21 47R PM5 R
3501	212211805639	RST SM 0603 RC0603 47R PM5 R
3502	232270260479	RST SM 0603 RC21 47R PM5 R
3502	212211805639	RST SM 0603 RC0603 47R PM5 R
3503	232270260103	RST SM 0603 RC21 10K PM5 R
3503	212211805669	RST SM 0603 RC0603 10K PM5 R
3504	232270260103	RST SM 0603 RC21 10K PM5 R
3504	212211805669	RST SM 0603 RC0603 10K PM5 R
3505	232270260101	RST SM 0603 RC21 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	232270260101	RST SM 0603 RC21 100R PM5 R
3506	212211805643	RST SM 0603 RC0603 100R PM5 R
3507	232270260101	RST SM 0603 RC21 100R PM5 R
3507	212211805643	RST SM 0603 RC0603 100R PM5 R
3508	232270260101	RST SM 0603 RC21 100R PM5 R
3508	212211805643	RST SM 0603 RC0603 100R PM5 R
3509	232270260221	RST SM 0603 RC21 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	232270260103	RST SM 0603 RC21 10K PM5 R
3510	212211805669	RST SM 0603 RC0603 10K PM5 R
3511	232270260221	RST SM 0603 RC21 220R PM5 R
3511	212211805647	RST SM 0603 RC0603 220R PM5 R
3512	232270260103	RST SM 0603 RC21 10K PM5 R
3512	212211805669	RST SM 0603 RC0603 10K PM5 R
3513	232270260103	RST SM 0603 RC21 10K PM5 R
3513	212211805669	RST SM 0603 RC0603 10K PM5 R
3514	232270260103	RST SM 0603 RC21 10K PM5 R
3514	212211805669	RST SM 0603 RC0603 10K PM5 R
3515	232270260103	RST SM 0603 RC21 10K PM5 R
3515	212211805669	RST SM 0603 RC0603 10K PM5 R
3516	232270260103	RST SM 0603 RC21 10K PM5 R
3516	212211805669	RST SM 0603 RC0603 10K PM5 R
3517	232270260473	RST SM 0603 RC21 47K PM5 R
3517	212211805678	RST SM 0603 RC0603 47K PM5 R
3518	232270260473	RST SM 0603 RC21 47K PM5 R
3518	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3521	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3525	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3525	212211805631	RST SM 0603 JUMP. MAX 0R05 R
5201	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5202	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5301	242254945582	IND FXD 0805 EMI 100MHZ 300R R

5401	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5402	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5403	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5404	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5405	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5406	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5407	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5408	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5409	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5410	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	313816874261	TI321611G800-SMD
5502	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5502	313816874261	TI321611G800-SMD
5503	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5503	313816874261	TI321611G800-SMD
5504	242254944196	IND FXD 0805 EMI 100MHZ 120R R
5505	242254944196	IND FXD 0805 EMI 100MHZ 120R R
6202	933137390215	DIO REG SM BZX84-C5V1 (PHSE) R
6202	932214638685	DIO REG SM BZX84-C5V1 (VISH) R
6220	933742280215	DIO SIG SM BAT54 (PHSE) R
6220	932216672685	DIO SIG SM BAT54 (ONSE) R
6222	933913910115	DIO SIG SM BAS32L (PHSE) R
6222	933952510685	DIO SIG SM LL4148 (VISH) R
6222	932205976685	DIO SIG SM LS4148 (VISH) R
6223	933742280215	DIO SIG SM BAT54 (PHSE) R
6223	932216672685	DIO SIG SM BAT54 (ONSE) R
7202	932217232668	IC SM S524C20D21 (SMGK) R
7202	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7203	932214526668	IC SM M24C02-WMN6 (ST00) R
7203	932217232668	IC SM S524C20D21 (SMGK) R
7203	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7204	935260739118	IC SM 74LVC14APW (PHSE) R
7204	932217126668	IC SM 74LCX14T (ST00) R
7301	932217946682	IC SM M29W010B-90K1 (ST00) L
7301	932217936671	IC SM AT49LV001NT-90JC(ATME) Y
7301	932219386682	IC SM M29W022BT55K1 (ST00) L
7301	932219106682	IC SM AT49LV002NT-90JC (ATME)L
7403	932220099685	IC SM LD1117AS18 (ST00) R
7404	823827715051	SCALER IC
7503	932209265685	TRA SIG SM MUN2211J (ONSE) R
7503	932217440685	TRA SIG SM KRC102S (KEC0) R
7504	932216638668	FET POW SM SI5441DC (VISH) R
8161	823827715091	AUDIO CONTROL WIRE 11P
8161	823827715081	AUDIO CONTROL WIRE 11P
8163	823827715071	LVDS CABLE 20+30P
8163	823827715061	LVDS CABLE 20+30P

Diversity of 150B5CS/00 comparing with 150S5FG/00		
Item	12NC	Description
	863900015105	150B5CS/00
30	313815756761	BEZEL ASSY(S)
31	313815412561	BEZEL(S)
35	313815412611	STRIP
40	313815756771	BACK COVER ASSY(S)
41	313815412581	BACK COVER(S)
43	313815756231	HINGE-PLATE ASSY
44	313815135131	HINGE-PLATE
45	313815132901	SPRING-EMI
50	313815756751	COMPACT BASE(S)
100	313815135351	SHIELDING
101	313815412601	HINGE COVER(S)
141	313815522761	QUICK SETUP GUIDE
210	313800991451	PROCESS BOX
280	313800991431	PROCESS BOX

291	313815562831	LABEL(LG)
291	313815562841	LABEL(CPT)
291	313815562841	LABEL(CPT)
295	313815562831	LABEL(LG)
295	313815562841	LABEL(CPT)
295	313815562841	LABEL(CPT)
301	313815135341	MAIN FRAME
302	313810167901	ALUMINUM FOIL
450	313815636591	CARTON-150B5
451	313815636601	CUSHION-TOP
452	313815636611	CUSHION-BTM
505	313810600601	FAMILY SHEET - W/O ADH.
508	313810600601	FAMILY SHEET - W/O ADH.
510	313815636591	CARTON-150B5
615	313811706741	HEX CODE OF F/W(NO MATEL REQ.)
616	313811706751	HEX CODE OF F/W(NO MATEL REQ.)
1051	313815858931	SCALER ASSY
1051	313815858821	SCALER ASSY
1053	313815857641	AUDIO+CONTROL ASSY
1157	313812874931	MAINSCORD
1157	313818870471	MAINSCORD IEC 10A 1M8 DET BK
1158	313819871431	CORD SUB-D 15/1M8/15 D-SUB BK
1158	313819871451	CORD SUB-D 15/1M8/SUB-D 15 BK
1160	313815859441	METAL FRAME+WIRE ASSY
1162	313818875051	SPEAKER CABLE(BLACK)
1163	823827714821	LSP BOX 16R 1.5W-L/R(PS-010016
1163	823827714841	LSP BOX 16R 1.5-L/R(P011U)
1201	242203300521	SOC DVI H 24P F 1.91DVI-D Y
1201	242203300525	SOC DVI H 24P F 1.91DVI-D Y
1301	242248680959	SOC IC V 32P F 1.27 PLCC B
1410	243854300093	RES XTL SM 14M31818 7P SMD49 R
1410	243854300086	RES XTL SM 14M318 18P HC49/S R
1411	242202505572	CON H 30P M 1.25 SM 60952 R
1411	313818877611	CON BM H 30P M 1.25 60934
1503	313816872071	11P WAFER M242611(VERT)
2209	223878615649	CER2 0603 X7R 16V 100N PM10 R
2211	223886715331	CER1 0603 NP0 50V 330P PM5 R
2212	223886715331	CER1 0603 NP0 50V 330P PM5 R
2214	223878615649	CER2 0603 X7R 16V 100N PM10 R
2216	223886715331	CER1 0603 NP0 50V 330P PM5 R
2217	223886715331	CER1 0603 NP0 50V 330P PM5 R
2220	223878615649	CER2 0603 X7R 16V 100N PM10 R
2231	223858615636	CER2 0603 X7R 50V 10N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R
2235	223878615649	CER2 0603 X7R 16V 100N PM10 R
2301	223878615649	CER2 0603 X7R 16V 100N PM10 R
2302	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	202001293721	ELCAP SM RV2 16V 10U PM20 R
2401	202202000789	ELCAP SM LV 16V 10U PM20 R
2401	202202000756	ELCAP SM RV2 16V 10U PM20 R
2402	202001293721	ELCAP SM RV2 16V 10U PM20 R
2402	202202000789	ELCAP SM LV 16V 10U PM20 R
2402	202202000756	ELCAP SM RV2 16V 10U PM20 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2404	223878615649	CER2 0603 X7R 16V 100N PM10 R
2405	223878615649	CER2 0603 X7R 16V 100N PM10 R
2406	223878615649	CER2 0603 X7R 16V 100N PM10 R
2407	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	202001293721	ELCAP SM RV2 16V 10U PM20 R
2408	202202000789	ELCAP SM LV 16V 10U PM20 R
2408	202202000756	ELCAP SM RV2 16V 10U PM20 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2410	223878615649	CER2 0603 X7R 16V 100N PM10 R
2411	223878615649	CER2 0603 X7R 16V 100N PM10 R
2412	223878615649	CER2 0603 X7R 16V 100N PM10 R

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2413	223878615649	CER2 0603 X7R 16V 100N PM10 R
2414	223878615649	CER2 0603 X7R 16V 100N PM10 R
2415	223878615649	CER2 0603 X7R 16V 100N PM10 R
2416	223878615649	CER2 0603 X7R 16V 100N PM10 R
2417	223878615649	CER2 0603 X7R 16V 100N PM10 R
2418	202001293721	ELCAP SM RV2 16V 10U PM20 R
2418	202202000789	ELCAP SM LV 16V 10U PM20 R
2418	202202000756	ELCAP SM RV2 16V 10U PM20 R
2419	223878615649	CER2 0603 X7R 16V 100N PM10 R
2420	202001293721	ELCAP SM RV2 16V 10U PM20 R
2420	202202000789	ELCAP SM LV 16V 10U PM20 R
2420	202202000756	ELCAP SM RV2 16V 10U PM20 R
2421	223878615649	CER2 0603 X7R 16V 100N PM10 R
2422	202001293721	ELCAP SM RV2 16V 10U PM20 R
2422	202202000789	ELCAP SM LV 16V 10U PM20 R
2422	202202000756	ELCAP SM RV2 16V 10U PM20 R
2423	223878615649	CER2 0603 X7R 16V 100N PM10 R
2424	223878615649	CER2 0603 X7R 16V 100N PM10 R
2425	223878615649	CER2 0603 X7R 16V 100N PM10 R
2426	223878615649	CER2 0603 X7R 16V 100N PM10 R
2427	223878615649	CER2 0603 X7R 16V 100N PM10 R
2428	202001293721	ELCAP SM RV2 16V 10U PM20 R
2428	202202000789	ELCAP SM LV 16V 10U PM20 R
2428	202202000756	ELCAP SM RV2 16V 10U PM20 R
2429	202001293721	ELCAP SM RV2 16V 10U PM20 R
2429	202202000789	ELCAP SM LV 16V 10U PM20 R
2429	202202000756	ELCAP SM RV2 16V 10U PM20 R
2430	202001293721	ELCAP SM RV2 16V 10U PM20 R
2430	202202000789	ELCAP SM LV 16V 10U PM20 R
2430	202202000756	ELCAP SM RV2 16V 10U PM20 R
2431	223878615649	CER2 0603 X7R 16V 100N PM10 R
2432	223878615649	CER2 0603 X7R 16V 100N PM10 R
2433	223878615649	CER2 0603 X7R 16V 100N PM10 R
2434	223878615649	CER2 0603 X7R 16V 100N PM10 R
2435	202001293721	ELCAP SM RV2 16V 10U PM20 R
2435	202202000789	ELCAP SM LV 16V 10U PM20 R
2435	202202000756	ELCAP SM RV2 16V 10U PM20 R
2436	223878615649	CER2 0603 X7R 16V 100N PM10 R
2437	202001293721	ELCAP SM RV2 16V 10U PM20 R
2437	202202000789	ELCAP SM LV 16V 10U PM20 R
2437	202202000756	ELCAP SM RV2 16V 10U PM20 R
2438	223878615649	CER2 0603 X7R 16V 100N PM10 R
2439	202001293721	ELCAP SM RV2 16V 10U PM20 R
2439	202202000789	ELCAP SM LV 16V 10U PM20 R
2439	202202000756	ELCAP SM RV2 16V 10U PM20 R
2440	223878615649	CER2 0603 X7R 16V 100N PM10 R
2441	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	223878615649	CER2 0603 X7R 16V 100N PM10 R
2446	223878615649	CER2 0603 X7R 16V 100N PM10 R
2448	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2451	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2453	223858615636	CER2 0603 X7R 50V 10N PM10 R
2454	223858615636	CER2 0603 X7R 50V 10N PM10 R
2455	223858615636	CER2 0603 X7R 50V 10N PM10 R
2456	223858615636	CER2 0603 X7R 50V 10N PM10 R
2503	202001293747	ELCAP SM RV2 25V 47U PM20 R
2503	202202000788	ELCAP SM LV 25V 47U PM20 R
2503	202202000781	ELCAP SM RV2 25V 47U PM20 R
2504	223878615649	CER2 0603 X7R 16V 100N PM10 R

2506	202001293747	ELCAP SM RV2 25V 47U PM20 R
2506	202202000788	ELCAP SM LV 25V 47U PM20 R
2506	202202000781	ELCAP SM RV2 25V 47U PM20 R
2507	223878615649	CER2 0603 X7R 16V 100N PM10 R
2508	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	202001293747	ELCAP SM RV2 25V 47U PM20 R
2509	202202000788	ELCAP SM LV 25V 47U PM20 R
2509	202202000781	ELCAP SM RV2 25V 47U PM20 R
2510	223878615649	CER2 0603 X7R 16V 100N PM10 R
2511	223878615649	CER2 0603 X7R 16V 100N PM10 R
2512	223878615649	CER2 0603 X7R 16V 100N PM10 R
2513	223878615649	CER2 0603 X7R 16V 100N PM10 R
2514	223878615649	CER2 0603 X7R 16V 100N PM10 R
2515	223878615649	CER2 0603 X7R 16V 100N PM10 R
2516	223878615649	CER2 0603 X7R 16V 100N PM10 R
2517	223878615649	CER2 0603 X7R 16V 100N PM10 R
2518	223878615649	CER2 0603 X7R 16V 100N PM10 R
2519	223878615649	CER2 0603 X7R 16V 100N PM10 R
2520	223858615636	CER2 0603 X7R 50V 10N PM10 R
2521	202001293747	ELCAP SM RV2 25V 47U PM20 R
2521	202202000788	ELCAP SM LV 25V 47U PM20 R
2521	202202000781	ELCAP SM RV2 25V 47U PM20 R
3201	232270260102	RST SM 0603 RC21 1K PM5 R
3201	212211805656	RST SM 0603 RC0603 1K PM5 R
3202	232270260103	RST SM 0603 RC21 10K PM5 R
3202	212211805669	RST SM 0603 RC0603 10K PM5 R
3203	232270260103	RST SM 0603 RC21 10K PM5 R
3203	212211805669	RST SM 0603 RC0603 10K PM5 R
3204	232270260103	RST SM 0603 RC21 10K PM5 R
3204	212211805669	RST SM 0603 RC0603 10K PM5 R
3205	232270260223	RST SM 0603 RC21 22K PM5 R
3205	212211805674	RST SM 0603 RC0603 22K PM5 R
3206	232270260101	RST SM 0603 RC21 100R PM5 R
3206	212211805643	RST SM 0603 RC0603 100R PM5 R
3207	232270260101	RST SM 0603 RC21 100R PM5 R
3207	212211805643	RST SM 0603 RC0603 100R PM5 R
3208	232270260102	RST SM 0603 RC21 1K PM5 R
3208	212211805656	RST SM 0603 RC0603 1K PM5 R
3209	232270260104	RST SM 0603 RC21 100K PM5 R
3209	212211805683	RST SM 0603 RC0603 100K PM5 R
3210	232270260101	RST SM 0603 RC21 100R PM5 R
3210	212211805643	RST SM 0603 RC0603 100R PM5 R
3211	232270260101	RST SM 0603 RC21 100R PM5 R
3211	212211805643	RST SM 0603 RC0603 100R PM5 R
3212	232270260103	RST SM 0603 RC21 10K PM5 R
3212	212211805669	RST SM 0603 RC0603 10K PM5 R
3214	232270260472	RST SM 0603 RC21 4K7 PM5 R
3214	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3215	232270260103	RST SM 0603 RC21 10K PM5 R
3215	212211805669	RST SM 0603 RC0603 10K PM5 R
3216	232270260101	RST SM 0603 RC21 100R PM5 R
3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	232270260101	RST SM 0603 RC21 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3219	232270260103	RST SM 0603 RC21 10K PM5 R
3219	212211805669	RST SM 0603 RC0603 10K PM5 R
3220	232270260223	RST SM 0603 RC21 22K PM5 R
3220	212211805674	RST SM 0603 RC0603 22K PM5 R
3221	232270260103	RST SM 0603 RC21 10K PM5 R
3221	212211805669	RST SM 0603 RC0603 10K PM5 R
3222	232270260103	RST SM 0603 RC21 10K PM5 R
3222	212211805669	RST SM 0603 RC0603 10K PM5 R
3223	232270260101	RST SM 0603 RC21 100R PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	232270260101	RST SM 0603 RC21 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R

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3225	232270260101	RST SM 0603 RC21 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	232270260101	RST SM 0603 RC21 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	232270260222	RST SM 0603 RC21 2K2 PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	232270260222	RST SM 0603 RC21 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	232270260104	RST SM 0603 RC21 100K PM5 R
3229	212211805683	RST SM 0603 RC0603 100K PM5 R
3230	232270260102	RST SM 0603 RC21 1K PM5 R
3230	212211805656	RST SM 0603 RC0603 1K PM5 R
3232	232270260101	RST SM 0603 RC21 100R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232270467509	RST SM 0603 RC22H 75R PM1 R
3233	212211805964	RST SM 0603 RC0603 75R PM1 R
3234	232270260339	RST SM 0603 RC21 33R PM5 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232270467509	RST SM 0603 RC22H 75R PM1 R
3235	212211805964	RST SM 0603 RC0603 75R PM1 R
3236	232270260101	RST SM 0603 RC21 100R PM5 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232270467509	RST SM 0603 RC22H 75R PM1 R
3237	212211805964	RST SM 0603 RC0603 75R PM1 R
3238	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3238	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3239	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3239	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3240	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3240	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3242	232270260101	RST SM 0603 RC21 100R PM5 R
3242	212211805643	RST SM 0603 RC0603 100R PM5 R
3244	232270260101	RST SM 0603 RC21 100R PM5 R
3244	212211805643	RST SM 0603 RC0603 100R PM5 R
3301	232270260103	RST SM 0603 RC21 10K PM5 R
3301	212211805669	RST SM 0603 RC0603 10K PM5 R
3302	232270260103	RST SM 0603 RC21 10K PM5 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3316	232270260103	RST SM 0603 RC21 10K PM5 R
3316	212211805669	RST SM 0603 RC0603 10K PM5 R
3321	232270260103	RST SM 0603 RC21 10K PM5 R
3321	212211805669	RST SM 0603 RC0603 10K PM5 R
3322	232270260103	RST SM 0603 RC21 10K PM5 R
3322	212211805669	RST SM 0603 RC0603 10K PM5 R
3323	232270260103	RST SM 0603 RC21 10K PM5 R
3323	212211805669	RST SM 0603 RC0603 10K PM5 R
3324	232270260103	RST SM 0603 RC21 10K PM5 R
3324	212211805669	RST SM 0603 RC0603 10K PM5 R
3325	232270260103	RST SM 0603 RC21 10K PM5 R
3325	212211805669	RST SM 0603 RC0603 10K PM5 R
3326	232270260101	RST SM 0603 RC21 100R PM5 R
3326	212211805643	RST SM 0603 RC0603 100R PM5 R
3327	232270260101	RST SM 0603 RC21 100R PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3401	232270260101	RST SM 0603 RC21 100R PM5 R
3401	212211805643	RST SM 0603 RC0603 100R PM5 R
3402	232270260101	RST SM 0603 RC21 100R PM5 R
3402	212211805643	RST SM 0603 RC0603 100R PM5 R
3404	232270260121	RST SM 0603 RC21 120R PM5 R
3404	212211805644	RST SM 0603 RC0603 120R PM5 R
3405	232270260121	RST SM 0603 RC21 120R PM5 R
3405	212211805644	RST SM 0603 RC0603 120R PM5 R
3406	232270260121	RST SM 0603 RC21 120R PM5 R
3406	212211805644	RST SM 0603 RC0603 120R PM5 R
3408	232270461002	RST SM 0603 RC22H 1K PM1 R
3408	212211805965	RST SM 0603 RC0603 1K PM1 R
3409	232270260479	RST SM 0603 RC21 47R PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3449	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3449	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3501	232270260479	RST SM 0603 RC21 47R PM5 R
3501	212211805639	RST SM 0603 RC0603 47R PM5 R
3502	232270260479	RST SM 0603 RC21 47R PM5 R
3502	212211805639	RST SM 0603 RC0603 47R PM5 R
3503	232270260103	RST SM 0603 RC21 10K PM5 R
3503	212211805669	RST SM 0603 RC0603 10K PM5 R
3504	232270260103	RST SM 0603 RC21 10K PM5 R
3504	212211805669	RST SM 0603 RC0603 10K PM5 R
3505	232270260101	RST SM 0603 RC21 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	232270260101	RST SM 0603 RC21 100R PM5 R
3506	212211805643	RST SM 0603 RC0603 100R PM5 R
3507	232270260101	RST SM 0603 RC21 100R PM5 R
3507	212211805643	RST SM 0603 RC0603 100R PM5 R
3508	232270260101	RST SM 0603 RC21 100R PM5 R
3508	212211805643	RST SM 0603 RC0603 100R PM5 R
3509	232270260221	RST SM 0603 RC21 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	232270260103	RST SM 0603 RC21 10K PM5 R
3510	212211805669	RST SM 0603 RC0603 10K PM5 R
3511	232270260221	RST SM 0603 RC21 220R PM5 R
3511	212211805647	RST SM 0603 RC0603 220R PM5 R
3512	232270260103	RST SM 0603 RC21 10K PM5 R
3512	212211805669	RST SM 0603 RC0603 10K PM5 R
3513	232270260103	RST SM 0603 RC21 10K PM5 R
3513	212211805669	RST SM 0603 RC0603 10K PM5 R
3514	232270260103	RST SM 0603 RC21 10K PM5 R
3514	212211805669	RST SM 0603 RC0603 10K PM5 R
3515	232270260103	RST SM 0603 RC21 10K PM5 R
3515	212211805669	RST SM 0603 RC0603 10K PM5 R
3516	232270260103	RST SM 0603 RC21 10K PM5 R
3516	212211805669	RST SM 0603 RC0603 10K PM5 R
3517	232270260473	RST SM 0603 RC21 47K PM5 R
3517	212211805678	RST SM 0603 RC0603 47K PM5 R
3518	232270260473	RST SM 0603 RC21 47K PM5 R
3518	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3521	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3525	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3525	212211805631	RST SM 0603 JUMP. MAX 0R05 R
5201	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5202	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5301	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5401	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5402	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5403	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5404	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5405	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5406	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5407	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5408	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5409	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5410	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	313816874261	TI321611G800-SMD
5502	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5502	313816874261	TI321611G800-SMD
5503	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5503	313816874261	TI321611G800-SMD

5504	242254944196	IND FXD 0805 EMI 100MHZ 120R R
5505	242254944196	IND FXD 0805 EMI 100MHZ 120R R
6202	933137390215	DIO REG SM BZX84-C5V1 (PHSE) R
6202	932214638685	DIO REG SM BZX84-C5V1 (VISH) R
6220	933742280215	DIO SIG SM BAT54 (PHSE) R
6220	932216672685	DIO SIG SM BAT54 (ONSE) R
6222	933913910115	DIO SIG SM BAS32L (PHSE) R
6222	933952510685	DIO SIG SM LL4148 (VISH) R
6222	932205976685	DIO SIG SM LS4148 (VISH) R
6223	933742280215	DIO SIG SM BAT54 (PHSE) R
6223	932216672685	DIO SIG SM BAT54 (ONSE) R
7202	932217232668	IC SM S524C20D21 (SMGK) R
7202	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7203	932214526668	IC SM M24C02-WMN6 (ST00) R
7203	932217232668	IC SM S524C20D21 (SMGK) R
7203	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7204	935260739118	IC SM 74LVC14APW (PHSE) R
7204	932217126668	IC SM 74LCX14T (ST00) R
7301	932217946682	IC SM M29W010B-90K1 (ST00) L
7301	932217936671	IC SM AT49LV001NT-90JC(ATME) Y
7301	932219386682	IC SM M29W022BT55K1 (ST00) L
7301	932219106682	IC SM AT49LV002NT-90JC (ATME)L
7403	932220099685	IC SM LD1117AS18 (ST00) R
7404	823827715051	SCALER IC
7503	932209265685	TRA SIG SM MUN2211J (ONSE) R
7503	932217440685	TRA SIG SM KRC102S (KEC0) R
7504	932216638668	FET POW SM SI5441DC (VISH) R
8161	823827715091	AUDIO CONTROL WIRE 11P
8161	823827715081	AUDIO CONTROL WIRE 11P
8163	823827715071	LVDS CABLE 20+30P
8163	823827715061	LVDS CABLE 20+30P

Diversity of 150B5CG/93 comparing with 150S5FG/00

Item	12NC	Description
	863900015222	150B5CG/93
30	313815755941	BEZEL ASSY(T)
31	313815411741	BEZEL(T)
35	313815411761	STRIPE
40	313815755951	BACK COVER ASSY(T)
41	313815411751	BACK COVER(T)
43	313815756231	HINGE-PLATE ASSY
44	313815135131	HINGE-PLATE
45	313815132901	SPRING-EMI
46	313815135071	KINGSTON PLATE
50	313815755961	COMPACT BASE(T)
100	313815135351	SHIELDING
101	313815411801	HINGE COVER(T)
130	313810539241	PASS CARD LABEL
131	313810540721	QUALITY ASSURANCE CARD
141	313815522761	QUICK SETUP GUIDE
210	313800991451	PROCESS BOX
280	313800991431	PROCESS BOX
291	313815562831	LABEL(LG)
291	313815562841	LABEL(CPT)
291	313815562841	LABEL(CPT)
295	313815562831	LABEL(LG)
295	313815562841	LABEL(CPT)
295	313815562841	LABEL(CPT)
301	313815135341	MAIN FRAME
302	313810167901	ALUMINUM FOIL
450	313815637191	CARTON(150B5)
451	313815637201	CUSHION-TOP
452	313815637211	CUSHION-BTM
505	313810600601	FAMILY SHEET - W/O ADH.
508	313810600601	FAMILY SHEET - W/O ADH.
510	313815637191	CARTON(150B5)
615	313811706741	HEX CODE OF F/W(NO MATEL REQ.)
616	313811706751	HEX CODE OF F/W(NO MATEL REQ.)
1051	313815858931	SCALER ASSY
1051	313815858821	SCALER ASSY
1053	313815857641	AUDIO+CONTROL ASSY
1157	313818877651	MAINSCORD CHIN 10A 1M83 DET GY
1158	313819871441	CORD SUB-D 15/1M8/15 D-SUB GY
1158	313819871461	CORD SUB-D 15/1M8/SUB-D 15 GY
1160	313815859441	METAL FRAME+WIRE ASSY
1162	313818875031	SPEAKER CABLE(GRAY)
1163	823827714821	LSP BOX 16R 1.5W-L/R(PS-010016
1163	823827714841	LSP BOX 16R 1.5-L/R(P011U)
1201	242203300521	SOC DVI H 24P F 1.91DVI-D Y
1201	242203300525	SOC DVI H 24P F 1.91DVI-D Y
1301	242248680959	SOC IC V 32P F 1.27 PLCC B
1410	243854300093	RES XTL SM 14M31818 7P SMD49 R
1410	243854300086	RES XTL SM 14M318 18P HC49/S R
1411	242202505572	CON H 30P M 1.25 SM 60952 R
1411	313818877611	CON BM H 30P M 1.25 60934
1503	313816872071	11P WAFER M242611(VERT)
2209	223878615649	CER2 0603 X7R 16V 100N PM10 R
2211	223886715331	CER1 0603 NP0 50V 330P PM5 R
2212	223886715331	CER1 0603 NP0 50V 330P PM5 R
2214	223878615649	CER2 0603 X7R 16V 100N PM10 R
2216	223886715331	CER1 0603 NP0 50V 330P PM5 R
2217	223886715331	CER1 0603 NP0 50V 330P PM5 R
2220	223878615649	CER2 0603 X7R 16V 100N PM10 R
2231	223858615636	CER2 0603 X7R 50V 10N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R
2235	223878615649	CER2 0603 X7R 16V 100N PM10 R
2301	223878615649	CER2 0603 X7R 16V 100N PM10 R
2302	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	202001293721	ELCAP SM RV2 16V 10U PM20 R
2401	202202000789	ELCAP SM LV 16V 10U PM20 R
2401	202202000756	ELCAP SM RV2 16V 10U PM20 R
2402	202001293721	ELCAP SM RV2 16V 10U PM20 R
2402	202202000789	ELCAP SM LV 16V 10U PM20 R
2402	202202000756	ELCAP SM RV2 16V 10U PM20 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2404	223878615649	CER2 0603 X7R 16V 100N PM10 R
2405	223878615649	CER2 0603 X7R 16V 100N PM10 R
2406	223878615649	CER2 0603 X7R 16V 100N PM10 R
2407	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	202001293721	ELCAP SM RV2 16V 10U PM20 R
2408	202202000789	ELCAP SM LV 16V 10U PM20 R
2408	202202000756	ELCAP SM RV2 16V 10U PM20 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2410	223878615649	CER2 0603 X7R 16V 100N PM10 R
2411	223878615649	CER2 0603 X7R 16V 100N PM10 R
2412	223878615649	CER2 0603 X7R 16V 100N PM10 R
2413	223878615649	CER2 0603 X7R 16V 100N PM10 R
2414	223878615649	CER2 0603 X7R 16V 100N PM10 R
2415	223878615649	CER2 0603 X7R 16V 100N PM10 R
2416	223878615649	CER2 0603 X7R 16V 100N PM10 R
2417	223878615649	CER2 0603 X7R 16V 100N PM10 R
2418	202001293721	ELCAP SM RV2 16V 10U PM20 R
2418	202202000789	ELCAP SM LV 16V 10U PM20 R
2418	202202000756	ELCAP SM RV2 16V 10U PM20 R
2419	223878615649	CER2 0603 X7R 16V 100N PM10 R
2420	202001293721	ELCAP SM RV2 16V 10U PM20 R
2420	202202000789	ELCAP SM LV 16V 10U PM20 R
2420	202202000756	ELCAP SM RV2 16V 10U PM20 R

Different Parts List

2421	223878615649	CER2 0603 X7R 16V 100N PM10 R
2422	202001293721	ELCAP SM RV2 16V 10U PM20 R
2422	202202000789	ELCAP SM LV 16V 10U PM20 R
2422	202202000756	ELCAP SM RV2 16V 10U PM20 R
2423	223878615649	CER2 0603 X7R 16V 100N PM10 R
2424	223878615649	CER2 0603 X7R 16V 100N PM10 R
2425	223878615649	CER2 0603 X7R 16V 100N PM10 R
2426	223878615649	CER2 0603 X7R 16V 100N PM10 R
2427	223878615649	CER2 0603 X7R 16V 100N PM10 R
2428	202001293721	ELCAP SM RV2 16V 10U PM20 R
2428	202202000789	ELCAP SM LV 16V 10U PM20 R
2428	202202000756	ELCAP SM RV2 16V 10U PM20 R
2429	202001293721	ELCAP SM RV2 16V 10U PM20 R
2429	202202000789	ELCAP SM LV 16V 10U PM20 R
2429	202202000756	ELCAP SM RV2 16V 10U PM20 R
2430	202001293721	ELCAP SM RV2 16V 10U PM20 R
2430	202202000789	ELCAP SM LV 16V 10U PM20 R
2430	202202000756	ELCAP SM RV2 16V 10U PM20 R
2431	223878615649	CER2 0603 X7R 16V 100N PM10 R
2432	223878615649	CER2 0603 X7R 16V 100N PM10 R
2433	223878615649	CER2 0603 X7R 16V 100N PM10 R
2434	223878615649	CER2 0603 X7R 16V 100N PM10 R
2435	202001293721	ELCAP SM RV2 16V 10U PM20 R
2435	202202000789	ELCAP SM LV 16V 10U PM20 R
2435	202202000756	ELCAP SM RV2 16V 10U PM20 R
2436	223878615649	CER2 0603 X7R 16V 100N PM10 R
2437	202001293721	ELCAP SM RV2 16V 10U PM20 R
2437	202202000789	ELCAP SM LV 16V 10U PM20 R
2437	202202000756	ELCAP SM RV2 16V 10U PM20 R
2438	223878615649	CER2 0603 X7R 16V 100N PM10 R
2439	202001293721	ELCAP SM RV2 16V 10U PM20 R
2439	202202000789	ELCAP SM LV 16V 10U PM20 R
2439	202202000756	ELCAP SM RV2 16V 10U PM20 R
2440	223878615649	CER2 0603 X7R 16V 100N PM10 R
2441	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	223878615649	CER2 0603 X7R 16V 100N PM10 R
2446	223878615649	CER2 0603 X7R 16V 100N PM10 R
2448	222224119876	CER2 1206 Y5V 10V 10U P3020 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2451	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2453	223858615636	CER2 0603 X7R 50V 10N PM10 R
2454	223858615636	CER2 0603 X7R 50V 10N PM10 R
2455	223858615636	CER2 0603 X7R 50V 10N PM10 R
2456	223858615636	CER2 0603 X7R 50V 10N PM10 R
2503	202001293747	ELCAP SM RV2 25V 47U PM20 R
2503	202202000788	ELCAP SM LV 25V 47U PM20 R
2503	202202000781	ELCAP SM RV2 25V 47U PM20 R
2504	223878615649	CER2 0603 X7R 16V 100N PM10 R
2506	202001293747	ELCAP SM RV2 25V 47U PM20 R
2506	202202000788	ELCAP SM LV 25V 47U PM20 R
2506	202202000781	ELCAP SM RV2 25V 47U PM20 R
2507	223878615649	CER2 0603 X7R 16V 100N PM10 R
2508	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	202001293747	ELCAP SM RV2 25V 47U PM20 R
2509	202202000788	ELCAP SM LV 25V 47U PM20 R
2509	202202000781	ELCAP SM RV2 25V 47U PM20 R
2510	223878615649	CER2 0603 X7R 16V 100N PM10 R
2511	223878615649	CER2 0603 X7R 16V 100N PM10 R
2512	223878615649	CER2 0603 X7R 16V 100N PM10 R
2513	223878615649	CER2 0603 X7R 16V 100N PM10 R
2514	223878615649	CER2 0603 X7R 16V 100N PM10 R
2515	223878615649	CER2 0603 X7R 16V 100N PM10 R
2516	223878615649	CER2 0603 X7R 16V 100N PM10 R
2517	223878615649	CER2 0603 X7R 16V 100N PM10 R
2518	223878615649	CER2 0603 X7R 16V 100N PM10 R
2519	223878615649	CER2 0603 X7R 16V 100N PM10 R
2520	223858615636	CER2 0603 X7R 50V 10N PM10 R
2521	202001293747	ELCAP SM RV2 25V 47U PM20 R
2521	202202000788	ELCAP SM LV 25V 47U PM20 R
2521	202202000781	ELCAP SM RV2 25V 47U PM20 R
3201	232270260102	RST SM 0603 RC21 1K PM5 R
3201	212211805656	RST SM 0603 RC0603 1K PM5 R
3202	232270260103	RST SM 0603 RC21 10K PM5 R
3202	212211805669	RST SM 0603 RC0603 10K PM5 R
3203	232270260103	RST SM 0603 RC21 10K PM5 R
3203	212211805669	RST SM 0603 RC0603 10K PM5 R
3204	232270260103	RST SM 0603 RC21 10K PM5 R
3204	212211805669	RST SM 0603 RC0603 10K PM5 R
3205	232270260223	RST SM 0603 RC21 22K PM5 R
3205	212211805674	RST SM 0603 RC0603 22K PM5 R
3206	232270260101	RST SM 0603 RC21 100R PM5 R
3206	212211805643	RST SM 0603 RC0603 100R PM5 R
3207	232270260101	RST SM 0603 RC21 100R PM5 R
3207	212211805643	RST SM 0603 RC0603 100R PM5 R
3208	232270260102	RST SM 0603 RC21 1K PM5 R
3208	212211805656	RST SM 0603 RC0603 1K PM5 R
3209	232270260104	RST SM 0603 RC21 100K PM5 R
3209	212211805683	RST SM 0603 RC0603 100K PM5 R
3210	232270260101	RST SM 0603 RC21 100R PM5 R
3210	212211805643	RST SM 0603 RC0603 100R PM5 R
3211	232270260101	RST SM 0603 RC21 100R PM5 R
3211	212211805643	RST SM 0603 RC0603 100R PM5 R
3212	232270260103	RST SM 0603 RC21 10K PM5 R
3212	212211805669	RST SM 0603 RC0603 10K PM5 R
3214	232270260472	RST SM 0603 RC21 4K7 PM5 R
3214	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3215	232270260103	RST SM 0603 RC21 10K PM5 R
3215	212211805669	RST SM 0603 RC0603 10K PM5 R
3216	232270260101	RST SM 0603 RC21 100R PM5 R
3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	232270260101	RST SM 0603 RC21 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3219	232270260103	RST SM 0603 RC21 10K PM5 R
3219	212211805669	RST SM 0603 RC0603 10K PM5 R
3220	232270260223	RST SM 0603 RC21 22K PM5 R
3220	212211805674	RST SM 0603 RC0603 22K PM5 R
3221	232270260103	RST SM 0603 RC21 10K PM5 R
3221	212211805669	RST SM 0603 RC0603 10K PM5 R
3222	232270260103	RST SM 0603 RC21 10K PM5 R
3222	212211805669	RST SM 0603 RC0603 10K PM5 R
3223	232270260101	RST SM 0603 RC21 100R PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	232270260101	RST SM 0603 RC21 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R
3225	232270260101	RST SM 0603 RC21 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	232270260101	RST SM 0603 RC21 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	232270260222	RST SM 0603 RC21 2K2 PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	232270260222	RST SM 0603 RC21 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	232270260104	RST SM 0603 RC21 100K PM5 R
3229	212211805683	RST SM 0603 RC0603 100K PM5 R
3230	232270260102	RST SM 0603 RC21 1K PM5 R
3230	212211805656	RST SM 0603 RC0603 1K PM5 R

3232	232270260101	RST SM 0603 RC21 100R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232270467509	RST SM 0603 RC22H 75R PM1 R
3233	212211805964	RST SM 0603 RC0603 75R PM1 R
3234	232270260339	RST SM 0603 RC21 33R PM5 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232270467509	RST SM 0603 RC22H 75R PM1 R
3235	212211805964	RST SM 0603 RC0603 75R PM1 R
3236	232270260101	RST SM 0603 RC21 100R PM5 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232270467509	RST SM 0603 RC22H 75R PM1 R
3237	212211805964	RST SM 0603 RC0603 75R PM1 R
3238	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3238	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3239	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3239	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3240	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3240	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3242	232270260101	RST SM 0603 RC21 100R PM5 R
3242	212211805643	RST SM 0603 RC0603 100R PM5 R
3244	232270260101	RST SM 0603 RC21 100R PM5 R
3244	212211805643	RST SM 0603 RC0603 100R PM5 R
3301	232270260103	RST SM 0603 RC21 10K PM5 R
3301	212211805669	RST SM 0603 RC0603 10K PM5 R
3302	232270260103	RST SM 0603 RC21 10K PM5 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3316	232270260103	RST SM 0603 RC21 10K PM5 R
3316	212211805669	RST SM 0603 RC0603 10K PM5 R
3321	232270260103	RST SM 0603 RC21 10K PM5 R
3321	212211805669	RST SM 0603 RC0603 10K PM5 R
3322	232270260103	RST SM 0603 RC21 10K PM5 R
3322	212211805669	RST SM 0603 RC0603 10K PM5 R
3323	232270260103	RST SM 0603 RC21 10K PM5 R
3323	212211805669	RST SM 0603 RC0603 10K PM5 R
3324	232270260103	RST SM 0603 RC21 10K PM5 R
3324	212211805669	RST SM 0603 RC0603 10K PM5 R
3325	232270260103	RST SM 0603 RC21 10K PM5 R
3325	212211805669	RST SM 0603 RC0603 10K PM5 R
3326	232270260101	RST SM 0603 RC21 100R PM5 R
3326	212211805643	RST SM 0603 RC0603 100R PM5 R
3327	232270260101	RST SM 0603 RC21 100R PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3401	232270260101	RST SM 0603 RC21 100R PM5 R
3401	212211805643	RST SM 0603 RC0603 100R PM5 R
3402	232270260101	RST SM 0603 RC21 100R PM5 R
3402	212211805643	RST SM 0603 RC0603 100R PM5 R
3404	232270260121	RST SM 0603 RC21 120R PM5 R
3404	212211805644	RST SM 0603 RC0603 120R PM5 R
3405	232270260121	RST SM 0603 RC21 120R PM5 R
3405	212211805644	RST SM 0603 RC0603 120R PM5 R
3406	232270260121	RST SM 0603 RC21 120R PM5 R
3406	212211805644	RST SM 0603 RC0603 120R PM5 R
3408	232270461002	RST SM 0603 RC22H 1K PM1 R
3408	212211805965	RST SM 0603 RC0603 1K PM1 R
3409	232270260479	RST SM 0603 RC21 47R PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3449	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3449	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3501	232270260479	RST SM 0603 RC21 47R PM5 R
3501	212211805639	RST SM 0603 RC0603 47R PM5 R
3502	232270260479	RST SM 0603 RC21 47R PM5 R
3502	212211805639	RST SM 0603 RC0603 47R PM5 R
3503	232270260103	RST SM 0603 RC21 10K PM5 R
3503	212211805669	RST SM 0603 RC0603 10K PM5 R
3504	232270260103	RST SM 0603 RC21 10K PM5 R
3504	212211805669	RST SM 0603 RC0603 10K PM5 R
3505	232270260101	RST SM 0603 RC21 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	232270260101	RST SM 0603 RC21 100R PM5 R
3506	212211805643	RST SM 0603 RC0603 100R PM5 R
3507	232270260101	RST SM 0603 RC21 100R PM5 R
3507	212211805643	RST SM 0603 RC0603 100R PM5 R
3508	232270260101	RST SM 0603 RC21 100R PM5 R
3508	212211805643	RST SM 0603 RC0603 100R PM5 R
3509	232270260221	RST SM 0603 RC21 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	232270260103	RST SM 0603 RC21 10K PM5 R
3510	212211805669	RST SM 0603 RC0603 10K PM5 R
3511	232270260221	RST SM 0603 RC21 220R PM5 R
3511	212211805647	RST SM 0603 RC0603 220R PM5 R
3512	232270260103	RST SM 0603 RC21 10K PM5 R
3512	212211805669	RST SM 0603 RC0603 10K PM5 R
3513	232270260103	RST SM 0603 RC21 10K PM5 R
3513	212211805669	RST SM 0603 RC0603 10K PM5 R
3514	232270260103	RST SM 0603 RC21 10K PM5 R
3514	212211805669	RST SM 0603 RC0603 10K PM5 R
3515	232270260103	RST SM 0603 RC21 10K PM5 R
3515	212211805669	RST SM 0603 RC0603 10K PM5 R
3516	232270260103	RST SM 0603 RC21 10K PM5 R
3516	212211805669	RST SM 0603 RC0603 10K PM5 R
3517	232270260473	RST SM 0603 RC21 47K PM5 R
3517	212211805678	RST SM 0603 RC0603 47K PM5 R
3518	232270260473	RST SM 0603 RC21 47K PM5 R
3518	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3521	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3525	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3525	212211805631	RST SM 0603 JUMP. MAX 0R05 R
5201	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5202	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5301	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5401	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5402	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5403	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5404	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5405	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5406	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5407	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5408	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5409	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5410	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	313816874261	TI321611G800-SMD
5502	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5502	313816874261	TI321611G800-SMD
5503	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5503	313816874261	TI321611G800-SMD
5504	242254944196	IND FXD 0805 EMI 100MHZ 120R R
5505	242254944196	IND FXD 0805 EMI 100MHZ 120R R
6202	933137390215	DIO REG SM BZX84-C5V1 (PHSE) R
6202	932214638685	DIO REG SM BZX84-C5V1 (VISH) R
6220	933742280215	DIO SIG SM BAT54 (PHSE) R
6220	932216672685	DIO SIG SM BAT54 (ONSE) R
6222	933913910115	DIO SIG SM BAS32L (PHSE) R
6222	933952510685	DIO SIG SM LL4148 (VISH) R
6222	932205976685	DIO SIG SM LS4148 (VISH) R
6223	933742280215	DIO SIG SM BAT54 (PHSE) R
6223	932216672685	DIO SIG SM BAT54 (ONSE) R
7202	932217232668	IC SM S524C20D21 (SMGK) R
7202	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L

7203	932214526668	IC SM M24C02-WMN6 (ST00) R
7203	932217232668	IC SM S524C20D21 (SMGK) R
7203	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7204	935260739118	IC SM 74LVC14APW (PHSE) R
7204	932217126668	IC SM 74LCX14T (ST00) R
7301	932217946682	IC SM M29W010B-90K1 (ST00) L
7301	932217936671	IC SM AT49LV001NT-90JC(ATME) Y
7301	932219386682	IC SM M29W022BT55K1 (ST00) L
7301	932219106682	IC SM AT49LV002NT-90JC (ATME)L
7403	932220099685	IC SM LD1117AS18 (ST00) R
7404	823827715051	SCALER IC
7503	932209265685	TRA SIG SM MUN2211J (ONSE) R
7503	932217440685	TRA SIG SM KRC102S (KEC0) R
7504	932216638668	FET POW SM SI5441DC (VISH) R
8161	823827715091	AUDIO CONTROL WIRE 11P
8161	823827715081	AUDIO CONTROL WIRE 11P
8163	823827715071	LVDS CABLE 20+30P
8163	823827715061	LVDS CABLE 20+30P
Diversity of 150B5CS/93 comparing with 150S5FG/00		
Item	12NC	Description
	863900015223	150B5CS/93
30	313815756761	BEZEL ASSY(S)
31	313815412561	BEZEL(S)
35	313815412611	STRIP
40	313815756771	BACK COVER ASSY(S)
41	313815412581	BACK COVER(S)
43	313815756231	HINGE-PLATE ASSY
44	313815135131	HINGE-PLATE
45	313815132901	SPRING-EMI
46	313815135071	KINGSTON PLATE
50	313815756751	COMPACT BASE(S)
100	313815135351	SHIELDING
101	313815412601	HINGE COVER(S)
131	313810540721	QUALITY ASSURANCE CARD
141	313815522761	QUICK SETUP GUIDE
210	313800991451	PROCESS BOX
280	313800991431	PROCESS BOX
291	313815562831	LABEL(LG)
291	313815562841	LABEL(CPT)
291	313815562841	LABEL(CPT)
295	313815562831	LABEL(LG)
295	313815562841	LABEL(CPT)
295	313815562841	LABEL(CPT)
301	313815135341	MAIN FRAME
302	313810167901	ALUMINUM FOIL
450	313815637191	CARTON(150B5)
451	313815637201	CUSHION-TOP
452	313815637211	CUSHION-BTM
505	313810600601	FAMILY SHEET - W/O ADH.
508	313810600601	FAMILY SHEET - W/O ADH.
510	313815637191	CARTON(150B5)
615	313811706741	HEX CODE OF F/W(NO MATEL REQ.)
616	313811706751	HEX CODE OF F/W(NO MATEL REQ.)
1051	313815858931	SCALER ASSY
1051	313815858821	SCALER ASSY
1053	313815857641	AUDIO+CONTROL ASSY
1157	313818871651	MAINSCORD CCEE 10A 1M8 DET BK
1158	313819871431	CORD SUB-D 15/1M8/15 D-SUB BK
1158	313819871451	CORD SUB-D 15/1M8/SUB-D 15 BK
1160	313815859441	METAL FRAME+WIRE ASSY
1162	313818875051	SPEAKER CABLE(BLACK)
1163	823827714821	LSP BOX 16R 1.5W-L/R(PS-010016
1163	823827714841	LSP BOX 16R 1.5-L/R(P011U)
1201	242203300521	SOC DVI H 24P F 1.91DVI-D Y
1201	242203300525	SOC DVI H 24P F 1.91DVI-D Y

1301	242248680959	SOC IC V 32P F 1.27 PLCC B
1410	243854300093	RES XTL SM 14M31818 7P SMD49 R
1410	243854300086	RES XTL SM 14M318 18P HC49/S R
1411	242202505572	CON H 30P M 1.25 SM 60952 R
1411	313818877611	CON BM H 30P M 1.25 60934
1503	313816872071	11P WAFER M242611(VERT)
2209	223878615649	CER2 0603 X7R 16V 100N PM10 R
2211	223886715331	CER1 0603 NP0 50V 330P PM5 R
2212	223886715331	CER1 0603 NP0 50V 330P PM5 R
2214	223878615649	CER2 0603 X7R 16V 100N PM10 R
2216	223886715331	CER1 0603 NP0 50V 330P PM5 R
2217	223886715331	CER1 0603 NP0 50V 330P PM5 R
2220	223878615649	CER2 0603 X7R 16V 100N PM10 R
2231	223858615636	CER2 0603 X7R 50V 10N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R
2235	223878615649	CER2 0603 X7R 16V 100N PM10 R
2301	223878615649	CER2 0603 X7R 16V 100N PM10 R
2302	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	202001293721	ELCAP SM RV2 16V 10U PM20 R
2401	202202000789	ELCAP SM LV 16V 10U PM20 R
2401	202202000756	ELCAP SM RV2 16V 10U PM20 R
2402	202001293721	ELCAP SM RV2 16V 10U PM20 R
2402	202202000789	ELCAP SM LV 16V 10U PM20 R
2402	202202000756	ELCAP SM RV2 16V 10U PM20 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2404	223878615649	CER2 0603 X7R 16V 100N PM10 R
2405	223878615649	CER2 0603 X7R 16V 100N PM10 R
2406	223878615649	CER2 0603 X7R 16V 100N PM10 R
2407	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	202001293721	ELCAP SM RV2 16V 10U PM20 R
2408	202202000789	ELCAP SM LV 16V 10U PM20 R
2408	202202000756	ELCAP SM RV2 16V 10U PM20 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2410	223878615649	CER2 0603 X7R 16V 100N PM10 R
2411	223878615649	CER2 0603 X7R 16V 100N PM10 R
2412	223878615649	CER2 0603 X7R 16V 100N PM10 R
2413	223878615649	CER2 0603 X7R 16V 100N PM10 R
2414	223878615649	CER2 0603 X7R 16V 100N PM10 R
2415	223878615649	CER2 0603 X7R 16V 100N PM10 R
2416	223878615649	CER2 0603 X7R 16V 100N PM10 R
2417	223878615649	CER2 0603 X7R 16V 100N PM10 R
2418	202001293721	ELCAP SM RV2 16V 10U PM20 R
2418	202202000789	ELCAP SM LV 16V 10U PM20 R
2418	202202000756	ELCAP SM RV2 16V 10U PM20 R
2419	223878615649	CER2 0603 X7R 16V 100N PM10 R
2420	202001293721	ELCAP SM RV2 16V 10U PM20 R
2420	202202000789	ELCAP SM LV 16V 10U PM20 R
2420	202202000756	ELCAP SM RV2 16V 10U PM20 R
2421	223878615649	CER2 0603 X7R 16V 100N PM10 R
2422	202001293721	ELCAP SM RV2 16V 10U PM20 R
2422	202202000789	ELCAP SM LV 16V 10U PM20 R
2422	202202000756	ELCAP SM RV2 16V 10U PM20 R
2423	223878615649	CER2 0603 X7R 16V 100N PM10 R
2424	223878615649	CER2 0603 X7R 16V 100N PM10 R
2425	223878615649	CER2 0603 X7R 16V 100N PM10 R
2426	223878615649	CER2 0603 X7R 16V 100N PM10 R
2427	223878615649	CER2 0603 X7R 16V 100N PM10 R
2428	202001293721	ELCAP SM RV2 16V 10U PM20 R
2428	202202000789	ELCAP SM LV 16V 10U PM20 R
2428	202202000756	ELCAP SM RV2 16V 10U PM20 R
2429	202001293721	ELCAP SM RV2 16V 10U PM20 R
2429	202202000789	ELCAP SM LV 16V 10U PM20 R
2429	202202000756	ELCAP SM RV2 16V 10U PM20 R
2430	202001293721	ELCAP SM RV2 16V 10U PM20 R
2430	202202000789	ELCAP SM LV 16V 10U PM20 R

2430	202202000756	ELCAP SM RV2 16V 10U PM20 R
2431	223878615649	CER2 0603 X7R 16V 100N PM10 R
2432	223878615649	CER2 0603 X7R 16V 100N PM10 R
2433	223878615649	CER2 0603 X7R 16V 100N PM10 R
2434	223878615649	CER2 0603 X7R 16V 100N PM10 R
2435	202001293721	ELCAP SM RV2 16V 10U PM20 R
2435	202202000789	ELCAP SM LV 16V 10U PM20 R
2435	202202000756	ELCAP SM RV2 16V 10U PM20 R
2436	223878615649	CER2 0603 X7R 16V 100N PM10 R
2437	202001293721	ELCAP SM RV2 16V 10U PM20 R
2437	202202000789	ELCAP SM LV 16V 10U PM20 R
2437	202202000756	ELCAP SM RV2 16V 10U PM20 R
2438	223878615649	CER2 0603 X7R 16V 100N PM10 R
2439	202001293721	ELCAP SM RV2 16V 10U PM20 R
2439	202202000789	ELCAP SM LV 16V 10U PM20 R
2439	202202000756	ELCAP SM RV2 16V 10U PM20 R
2440	223878615649	CER2 0603 X7R 16V 100N PM10 R
2441	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	223878615649	CER2 0603 X7R 16V 100N PM10 R
2446	223878615649	CER2 0603 X7R 16V 100N PM10 R
2448	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2451	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2453	223858615636	CER2 0603 X7R 50V 10N PM10 R
2454	223858615636	CER2 0603 X7R 50V 10N PM10 R
2455	223858615636	CER2 0603 X7R 50V 10N PM10 R
2456	223858615636	CER2 0603 X7R 50V 10N PM10 R
2503	202001293747	ELCAP SM RV2 25V 47U PM20 R
2503	202202000788	ELCAP SM LV 25V 47U PM20 R
2503	202202000781	ELCAP SM RV2 25V 47U PM20 R
2504	223878615649	CER2 0603 X7R 16V 100N PM10 R
2506	202001293747	ELCAP SM RV2 25V 47U PM20 R
2506	202202000788	ELCAP SM LV 25V 47U PM20 R
2506	202202000781	ELCAP SM RV2 25V 47U PM20 R
2507	223878615649	CER2 0603 X7R 16V 100N PM10 R
2508	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	202001293747	ELCAP SM RV2 25V 47U PM20 R
2509	202202000788	ELCAP SM LV 25V 47U PM20 R
2509	202202000781	ELCAP SM RV2 25V 47U PM20 R
2510	223878615649	CER2 0603 X7R 16V 100N PM10 R
2511	223878615649	CER2 0603 X7R 16V 100N PM10 R
2512	223878615649	CER2 0603 X7R 16V 100N PM10 R
2513	223878615649	CER2 0603 X7R 16V 100N PM10 R
2514	223878615649	CER2 0603 X7R 16V 100N PM10 R
2515	223878615649	CER2 0603 X7R 16V 100N PM10 R
2516	223878615649	CER2 0603 X7R 16V 100N PM10 R
2517	223878615649	CER2 0603 X7R 16V 100N PM10 R
2518	223878615649	CER2 0603 X7R 16V 100N PM10 R
2519	223878615649	CER2 0603 X7R 16V 100N PM10 R
2520	223858615636	CER2 0603 X7R 50V 10N PM10 R
2521	202001293747	ELCAP SM RV2 25V 47U PM20 R
2521	202202000788	ELCAP SM LV 25V 47U PM20 R
2521	202202000781	ELCAP SM RV2 25V 47U PM20 R
3201	232270260102	RST SM 0603 RC21 1K PM5 R
3201	212211805656	RST SM 0603 RC0603 1K PM5 R
3202	232270260103	RST SM 0603 RC21 10K PM5 R
3202	212211805669	RST SM 0603 RC0603 10K PM5 R
3203	232270260103	RST SM 0603 RC21 10K PM5 R
3203	212211805669	RST SM 0603 RC0603 10K PM5 R
3204	232270260103	RST SM 0603 RC21 10K PM5 R
3204	212211805669	RST SM 0603 RC0603 10K PM5 R

3205	232270260223	RST SM 0603 RC21 22K PM5 R
3205	212211805674	RST SM 0603 RC0603 22K PM5 R
3206	232270260101	RST SM 0603 RC21 100R PM5 R
3206	212211805643	RST SM 0603 RC0603 100R PM5 R
3207	232270260101	RST SM 0603 RC21 100R PM5 R
3207	212211805643	RST SM 0603 RC0603 100R PM5 R
3208	232270260102	RST SM 0603 RC21 1K PM5 R
3208	212211805656	RST SM 0603 RC0603 1K PM5 R
3209	232270260104	RST SM 0603 RC21 100K PM5 R
3209	212211805683	RST SM 0603 RC0603 100K PM5 R
3210	232270260101	RST SM 0603 RC21 100R PM5 R
3210	212211805643	RST SM 0603 RC0603 100R PM5 R
3211	232270260101	RST SM 0603 RC21 100R PM5 R
3211	212211805643	RST SM 0603 RC0603 100R PM5 R
3212	232270260103	RST SM 0603 RC21 10K PM5 R
3212	212211805669	RST SM 0603 RC0603 10K PM5 R
3214	232270260472	RST SM 0603 RC21 4K7 PM5 R
3214	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3215	232270260103	RST SM 0603 RC21 10K PM5 R
3215	212211805669	RST SM 0603 RC0603 10K PM5 R
3216	232270260101	RST SM 0603 RC21 100R PM5 R
3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	232270260101	RST SM 0603 RC21 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3219	232270260103	RST SM 0603 RC21 10K PM5 R
3219	212211805669	RST SM 0603 RC0603 10K PM5 R
3220	232270260223	RST SM 0603 RC21 22K PM5 R
3220	212211805674	RST SM 0603 RC0603 22K PM5 R
3221	232270260103	RST SM 0603 RC21 10K PM5 R
3221	212211805669	RST SM 0603 RC0603 10K PM5 R
3222	232270260103	RST SM 0603 RC21 10K PM5 R
3222	212211805669	RST SM 0603 RC0603 10K PM5 R
3223	232270260101	RST SM 0603 RC21 100R PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	232270260101	RST SM 0603 RC21 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R
3225	232270260101	RST SM 0603 RC21 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	232270260101	RST SM 0603 RC21 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	232270260222	RST SM 0603 RC21 2K2 PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	232270260222	RST SM 0603 RC21 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	232270260104	RST SM 0603 RC21 100K PM5 R
3229	212211805683	RST SM 0603 RC0603 100K PM5 R
3230	232270260102	RST SM 0603 RC21 1K PM5 R
3230	212211805656	RST SM 0603 RC0603 1K PM5 R
3232	232270260101	RST SM 0603 RC21 100R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232270467509	RST SM 0603 RC22H 75R PM1 R
3233	212211805964	RST SM 0603 RC0603 75R PM1 R
3234	232270260339	RST SM 0603 RC21 33R PM5 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232270467509	RST SM 0603 RC22H 75R PM1 R
3235	212211805964	RST SM 0603 RC0603 75R PM1 R
3236	232270260101	RST SM 0603 RC21 100R PM5 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232270467509	RST SM 0603 RC22H 75R PM1 R
3237	212211805964	RST SM 0603 RC0603 75R PM1 R
3238	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3238	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3239	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3239	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3240	232270296001	RST SM 0603 JUMP. MAX 0R05 R

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3240	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3242	232270260101	RST SM 0603 RC21 100R PM5 R
3242	212211805643	RST SM 0603 RC0603 100R PM5 R
3244	232270260101	RST SM 0603 RC21 100R PM5 R
3244	212211805643	RST SM 0603 RC0603 100R PM5 R
3301	232270260103	RST SM 0603 RC21 10K PM5 R
3301	212211805669	RST SM 0603 RC0603 10K PM5 R
3302	232270260103	RST SM 0603 RC21 10K PM5 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3316	232270260103	RST SM 0603 RC21 10K PM5 R
3316	212211805669	RST SM 0603 RC0603 10K PM5 R
3321	232270260103	RST SM 0603 RC21 10K PM5 R
3321	212211805669	RST SM 0603 RC0603 10K PM5 R
3322	232270260103	RST SM 0603 RC21 10K PM5 R
3322	212211805669	RST SM 0603 RC0603 10K PM5 R
3323	232270260103	RST SM 0603 RC21 10K PM5 R
3323	212211805669	RST SM 0603 RC0603 10K PM5 R
3324	232270260103	RST SM 0603 RC21 10K PM5 R
3324	212211805669	RST SM 0603 RC0603 10K PM5 R
3325	232270260103	RST SM 0603 RC21 10K PM5 R
3325	212211805669	RST SM 0603 RC0603 10K PM5 R
3326	232270260101	RST SM 0603 RC21 100R PM5 R
3326	212211805643	RST SM 0603 RC0603 100R PM5 R
3327	232270260101	RST SM 0603 RC21 100R PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3401	232270260101	RST SM 0603 RC21 100R PM5 R
3401	212211805643	RST SM 0603 RC0603 100R PM5 R
3402	232270260101	RST SM 0603 RC21 100R PM5 R
3402	212211805643	RST SM 0603 RC0603 100R PM5 R
3404	232270260121	RST SM 0603 RC21 120R PM5 R
3404	212211805644	RST SM 0603 RC0603 120R PM5 R
3405	232270260121	RST SM 0603 RC21 120R PM5 R
3405	212211805644	RST SM 0603 RC0603 120R PM5 R
3406	232270260121	RST SM 0603 RC21 120R PM5 R
3406	212211805644	RST SM 0603 RC0603 120R PM5 R
3408	232270461002	RST SM 0603 RC22H 1K PM1 R
3408	212211805965	RST SM 0603 RC0603 1K PM1 R
3409	232270260479	RST SM 0603 RC21 47R PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3449	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3449	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3501	232270260479	RST SM 0603 RC21 47R PM5 R
3501	212211805639	RST SM 0603 RC0603 47R PM5 R
3502	232270260479	RST SM 0603 RC21 47R PM5 R
3502	212211805639	RST SM 0603 RC0603 47R PM5 R
3503	232270260103	RST SM 0603 RC21 10K PM5 R
3503	212211805669	RST SM 0603 RC0603 10K PM5 R
3504	232270260103	RST SM 0603 RC21 10K PM5 R
3504	212211805669	RST SM 0603 RC0603 10K PM5 R
3505	232270260101	RST SM 0603 RC21 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	232270260101	RST SM 0603 RC21 100R PM5 R
3506	212211805643	RST SM 0603 RC0603 100R PM5 R
3507	232270260101	RST SM 0603 RC21 100R PM5 R
3507	212211805643	RST SM 0603 RC0603 100R PM5 R
3508	232270260101	RST SM 0603 RC21 100R PM5 R
3508	212211805643	RST SM 0603 RC0603 100R PM5 R
3509	232270260221	RST SM 0603 RC21 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	232270260103	RST SM 0603 RC21 10K PM5 R
3510	212211805669	RST SM 0603 RC0603 10K PM5 R
3511	232270260221	RST SM 0603 RC21 220R PM5 R
3511	212211805647	RST SM 0603 RC0603 220R PM5 R
3512	232270260103	RST SM 0603 RC21 10K PM5 R
3512	212211805669	RST SM 0603 RC0603 10K PM5 R

3513	232270260103	RST SM 0603 RC21 10K PM5 R
3513	212211805669	RST SM 0603 RC0603 10K PM5 R
3514	232270260103	RST SM 0603 RC21 10K PM5 R
3514	212211805669	RST SM 0603 RC0603 10K PM5 R
3515	232270260103	RST SM 0603 RC21 10K PM5 R
3515	212211805669	RST SM 0603 RC0603 10K PM5 R
3516	232270260103	RST SM 0603 RC21 10K PM5 R
3516	212211805669	RST SM 0603 RC0603 10K PM5 R
3517	232270260473	RST SM 0603 RC21 47K PM5 R
3517	212211805678	RST SM 0603 RC0603 47K PM5 R
3518	232270260473	RST SM 0603 RC21 47K PM5 R
3518	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3521	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3525	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3525	212211805631	RST SM 0603 JUMP. MAX 0R05 R
5201	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5202	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5301	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5401	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5402	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5403	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5404	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5405	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5406	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5407	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5408	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5409	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5410	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	313816874261	TI321611G800-SMD
5502	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5502	313816874261	TI321611G800-SMD
5503	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5503	313816874261	TI321611G800-SMD
5504	242254944196	IND FXD 0805 EMI 100MHZ 120R R
5505	242254944196	IND FXD 0805 EMI 100MHZ 120R R
6202	933137390215	DIO REG SM BZX84-C5V1 (PHSE) R
6202	932214638685	DIO REG SM BZX84-C5V1 (VISH) R
6220	933742280215	DIO SIG SM BAT54 (PHSE) R
6220	932216672685	DIO SIG SM BAT54 (ONSE) R
6222	933913910115	DIO SIG SM BAS32L (PHSE) R
6222	933952510685	DIO SIG SM LL4148 (VISH) R
6222	932205976685	DIO SIG SM LS4148 (VISH) R
6223	933742280215	DIO SIG SM BAT54 (PHSE) R
6223	932216672685	DIO SIG SM BAT54 (ONSE) R
7202	932217232668	IC SM S524C20D21 (SMGK) R
7202	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7203	932214526668	IC SM M24C02-WMN6 (ST00) R
7203	932217232668	IC SM S524C20D21 (SMGK) R
7203	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7204	935260739118	IC SM 74LVC14APW (PHSE) R
7204	932217126668	IC SM 74LCX14T (ST00) R
7301	932217946682	IC SM M29W010B-90K1 (ST00) L
7301	932217936671	IC SM AT49LV001NT-90JC(ATME) Y
7301	932219386682	IC SM M29W022BT55K1 (ST00) L
7301	932219106682	IC SM AT49LV002NT-90JC (ATME)L
7403	932220099685	IC SM LD1117AS18 (ST00) R
7404	823827715051	SCALER IC
7503	932209265685	TRA SIG SM MUN2211J (ONSE) R
7503	932217440685	TRA SIG SM KRC102S (KEC0) R
7504	932216638668	FET POW SM SI5441DC (VISH) R
8161	823827715091	AUDIO CONTROL WIRE 11P
8161	823827715081	AUDIO CONTROL WIRE 11P
8163	823827715071	LVDS CABLE 20+30P

8163	823827715061	LVDS CABLE 20+30P
Diversity of 150B5CB/27 comparing with 150S5FG/00		
Item	12NC	Description
	863900015247	150B5CB/27
30	313815756781	BEZEL ASSY(B)
31	313815412551	BEZEL(B)
35	313815411761	STRIPE
40	313815756791	BACK COVER ASSY(B)
41	313815412571	BACK COVER(B)
43	313815756231	HINGE-PLATE ASSY
44	313815135131	HINGE-PLATE
45	313815132901	SPRING-EMI
46	313815135071	KINGSTON PLATE
50	313815756741	COMPACT BASE(B)
100	313815135351	SHIELDING
101	313815412591	HINGE COVER(B)
141	313815522761	QUICK SETUP GUIDE
210	313800991451	PROCESS BOX
280	313800991431	PROCESS BOX
291	313815562831	LABEL(LG)
291	313815562841	LABEL(CPT)
291	313815562841	LABEL(CPT)
295	313815562831	LABEL(LG)
295	313815562841	LABEL(CPT)
295	313815562841	LABEL(CPT)
301	313815135341	MAIN FRAME
302	313810167901	ALUMINUM FOIL
450	313815636591	CARTON-150B5
451	313815636601	CUSHION-TOP
452	313815636611	CUSHION-BTM
505	313810600601	FAMILY SHEET - W/O ADH.
508	313810600601	FAMILY SHEET - W/O ADH.
510	313815636591	CARTON-150B5
615	313811706741	HEX CODE OF F/W(NO MATEL REQ.)
616	313811706751	HEX CODE OF F/W(NO MATEL REQ.)
1051	313815858931	SCALER ASSY
1051	313815858821	SCALER ASSY
1053	313815857641	AUDIO+CONTROL ASSY
1157	313812874901	MAINSCORD
1157	313818870491	MAINSCORD UL 10A 1M8 DET BK
1158	313819871431	CORD SUB-D 15/1M8/15 D-SUB BK
1158	313819871451	CORD SUB-D 15/1M8/SUB-D 15 BK
1160	313815859441	METAL FRAME+WIRE ASSY
1162	313818875051	SPEAKER CABLE(BLACK)
1163	823827714821	LSP BOX 16R 1.5W-L/R(PS-010016
1163	823827714841	LSP BOX 16R 1.5-L/R(P011U)
1167	242203300265	CON ACC ADP V 15P F MA-002 B
1201	242203300521	SOC DVI H 24P F 1.91DVI-D Y
1201	242203300525	SOC DVI H 24P F 1.91DVI-D Y
1301	242248680959	SOC IC V 32P F 1.27 PLCC B
1410	243854300093	RES XTL SM 14M31818 7P SMD49 R
1410	243854300086	RES XTL SM 14M318 18P HC49/S R
1411	242202505572	CON H 30P M 1.25 SM 60952 R
1411	313818877611	CON BM H 30P M 1.25 60934
1503	313816872071	11P WAFER M242611(VERT)
2209	223878615649	CER2 0603 X7R 16V 100N PM10 R
2211	223886715331	CER1 0603 NP0 50V 330P PM5 R
2212	223886715331	CER1 0603 NP0 50V 330P PM5 R
2214	223878615649	CER2 0603 X7R 16V 100N PM10 R
2216	223886715331	CER1 0603 NP0 50V 330P PM5 R
2217	223886715331	CER1 0603 NP0 50V 330P PM5 R
2220	223878615649	CER2 0603 X7R 16V 100N PM10 R
2231	223858615636	CER2 0603 X7R 50V 10N PM10 R
2234	223878615649	CER2 0603 X7R 16V 100N PM10 R
2235	223878615649	CER2 0603 X7R 16V 100N PM10 R
2301	223878615649	CER2 0603 X7R 16V 100N PM10 R
2302	223878615649	CER2 0603 X7R 16V 100N PM10 R
2401	202001293721	ELCAP SM RV2 16V 10U PM20 R
2401	202202000789	ELCAP SM LV 16V 10U PM20 R
2401	202202000756	ELCAP SM RV2 16V 10U PM20 R
2402	202001293721	ELCAP SM RV2 16V 10U PM20 R
2402	202202000789	ELCAP SM LV 16V 10U PM20 R
2402	202202000756	ELCAP SM RV2 16V 10U PM20 R
2403	223878615649	CER2 0603 X7R 16V 100N PM10 R
2404	223878615649	CER2 0603 X7R 16V 100N PM10 R
2405	223878615649	CER2 0603 X7R 16V 100N PM10 R
2406	223878615649	CER2 0603 X7R 16V 100N PM10 R
2407	223878615649	CER2 0603 X7R 16V 100N PM10 R
2408	202001293721	ELCAP SM RV2 16V 10U PM20 R
2408	202202000789	ELCAP SM LV 16V 10U PM20 R
2408	202202000756	ELCAP SM RV2 16V 10U PM20 R
2409	223878615649	CER2 0603 X7R 16V 100N PM10 R
2410	223878615649	CER2 0603 X7R 16V 100N PM10 R
2411	223878615649	CER2 0603 X7R 16V 100N PM10 R
2412	223878615649	CER2 0603 X7R 16V 100N PM10 R
2413	223878615649	CER2 0603 X7R 16V 100N PM10 R
2414	223878615649	CER2 0603 X7R 16V 100N PM10 R
2415	223878615649	CER2 0603 X7R 16V 100N PM10 R
2416	223878615649	CER2 0603 X7R 16V 100N PM10 R
2417	223878615649	CER2 0603 X7R 16V 100N PM10 R
2418	202001293721	ELCAP SM RV2 16V 10U PM20 R
2418	202202000789	ELCAP SM LV 16V 10U PM20 R
2418	202202000756	ELCAP SM RV2 16V 10U PM20 R
2419	223878615649	CER2 0603 X7R 16V 100N PM10 R
2420	202001293721	ELCAP SM RV2 16V 10U PM20 R
2420	202202000789	ELCAP SM LV 16V 10U PM20 R
2420	202202000756	ELCAP SM RV2 16V 10U PM20 R
2421	223878615649	CER2 0603 X7R 16V 100N PM10 R
2422	202001293721	ELCAP SM RV2 16V 10U PM20 R
2422	202202000789	ELCAP SM LV 16V 10U PM20 R
2422	202202000756	ELCAP SM RV2 16V 10U PM20 R
2423	223878615649	CER2 0603 X7R 16V 100N PM10 R
2424	223878615649	CER2 0603 X7R 16V 100N PM10 R
2425	223878615649	CER2 0603 X7R 16V 100N PM10 R
2426	223878615649	CER2 0603 X7R 16V 100N PM10 R
2427	223878615649	CER2 0603 X7R 16V 100N PM10 R
2428	202001293721	ELCAP SM RV2 16V 10U PM20 R
2428	202202000789	ELCAP SM LV 16V 10U PM20 R
2428	202202000756	ELCAP SM RV2 16V 10U PM20 R
2429	202001293721	ELCAP SM RV2 16V 10U PM20 R
2429	202202000789	ELCAP SM LV 16V 10U PM20 R
2429	202202000756	ELCAP SM RV2 16V 10U PM20 R
2430	202001293721	ELCAP SM RV2 16V 10U PM20 R
2430	202202000789	ELCAP SM LV 16V 10U PM20 R
2430	202202000756	ELCAP SM RV2 16V 10U PM20 R
2431	223878615649	CER2 0603 X7R 16V 100N PM10 R
2432	223878615649	CER2 0603 X7R 16V 100N PM10 R
2433	223878615649	CER2 0603 X7R 16V 100N PM10 R
2434	223878615649	CER2 0603 X7R 16V 100N PM10 R
2435	202001293721	ELCAP SM RV2 16V 10U PM20 R
2435	202202000789	ELCAP SM LV 16V 10U PM20 R
2435	202202000756	ELCAP SM RV2 16V 10U PM20 R
2436	223878615649	CER2 0603 X7R 16V 100N PM10 R
2437	202001293721	ELCAP SM RV2 16V 10U PM20 R
2437	202202000789	ELCAP SM LV 16V 10U PM20 R
2437	202202000756	ELCAP SM RV2 16V 10U PM20 R
2438	223878615649	CER2 0603 X7R 16V 100N PM10 R
2439	202001293721	ELCAP SM RV2 16V 10U PM20 R
2439	202202000789	ELCAP SM LV 16V 10U PM20 R

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2439	202202000756	ELCAP SM RV2 16V 10U PM20 R
2440	223878615649	CER2 0603 X7R 16V 100N PM10 R
2441	223878615649	CER2 0603 X7R 16V 100N PM10 R
2442	223878615649	CER2 0603 X7R 16V 100N PM10 R
2443	223878615649	CER2 0603 X7R 16V 100N PM10 R
2444	223878615649	CER2 0603 X7R 16V 100N PM10 R
2445	223878615649	CER2 0603 X7R 16V 100N PM10 R
2446	223878615649	CER2 0603 X7R 16V 100N PM10 R
2448	222224119876	CER2 1206 Y5V 10V 10U P8020 R
2449	223878615649	CER2 0603 X7R 16V 100N PM10 R
2450	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2451	223886715478	CER1 0603 NP0 50V 4P7 PM0P25 R
2453	223858615636	CER2 0603 X7R 50V 10N PM10 R
2454	223858615636	CER2 0603 X7R 50V 10N PM10 R
2455	223858615636	CER2 0603 X7R 50V 10N PM10 R
2456	223858615636	CER2 0603 X7R 50V 10N PM10 R
2503	202001293747	ELCAP SM RV2 25V 47U PM20 R
2503	202202000788	ELCAP SM LV 25V 47U PM20 R
2503	202202000781	ELCAP SM RV2 25V 47U PM20 R
2504	223878615649	CER2 0603 X7R 16V 100N PM10 R
2506	202001293747	ELCAP SM RV2 25V 47U PM20 R
2506	202202000788	ELCAP SM LV 25V 47U PM20 R
2506	202202000781	ELCAP SM RV2 25V 47U PM20 R
2507	223878615649	CER2 0603 X7R 16V 100N PM10 R
2508	223878615649	CER2 0603 X7R 16V 100N PM10 R
2509	202001293747	ELCAP SM RV2 25V 47U PM20 R
2509	202202000788	ELCAP SM LV 25V 47U PM20 R
2509	202202000781	ELCAP SM RV2 25V 47U PM20 R
2510	223878615649	CER2 0603 X7R 16V 100N PM10 R
2511	223878615649	CER2 0603 X7R 16V 100N PM10 R
2512	223878615649	CER2 0603 X7R 16V 100N PM10 R
2513	223878615649	CER2 0603 X7R 16V 100N PM10 R
2514	223878615649	CER2 0603 X7R 16V 100N PM10 R
2515	223878615649	CER2 0603 X7R 16V 100N PM10 R
2516	223878615649	CER2 0603 X7R 16V 100N PM10 R
2517	223878615649	CER2 0603 X7R 16V 100N PM10 R
2518	223878615649	CER2 0603 X7R 16V 100N PM10 R
2519	223878615649	CER2 0603 X7R 16V 100N PM10 R
2520	223858615636	CER2 0603 X7R 50V 10N PM10 R
2521	202001293747	ELCAP SM RV2 25V 47U PM20 R
2521	202202000788	ELCAP SM LV 25V 47U PM20 R
2521	202202000781	ELCAP SM RV2 25V 47U PM20 R
3201	232270260102	RST SM 0603 RC21 1K PM5 R
3201	212211805656	RST SM 0603 RC0603 1K PM5 R
3202	232270260103	RST SM 0603 RC21 10K PM5 R
3202	212211805669	RST SM 0603 RC0603 10K PM5 R
3203	232270260103	RST SM 0603 RC21 10K PM5 R
3203	212211805669	RST SM 0603 RC0603 10K PM5 R
3204	232270260103	RST SM 0603 RC21 10K PM5 R
3204	212211805669	RST SM 0603 RC0603 10K PM5 R
3205	232270260223	RST SM 0603 RC21 22K PM5 R
3205	212211805674	RST SM 0603 RC0603 22K PM5 R
3206	232270260101	RST SM 0603 RC21 100R PM5 R
3206	212211805643	RST SM 0603 RC0603 100R PM5 R
3207	232270260101	RST SM 0603 RC21 100R PM5 R
3207	212211805643	RST SM 0603 RC0603 100R PM5 R
3208	232270260102	RST SM 0603 RC21 1K PM5 R
3208	212211805656	RST SM 0603 RC0603 1K PM5 R
3209	232270260104	RST SM 0603 RC21 100K PM5 R
3209	212211805683	RST SM 0603 RC0603 100K PM5 R
3210	232270260101	RST SM 0603 RC21 100R PM5 R
3210	212211805643	RST SM 0603 RC0603 100R PM5 R
3211	232270260101	RST SM 0603 RC21 100R PM5 R
3211	212211805643	RST SM 0603 RC0603 100R PM5 R
3212	232270260103	RST SM 0603 RC21 10K PM5 R
3212	212211805669	RST SM 0603 RC0603 10K PM5 R
3214	232270260472	RST SM 0603 RC21 4K7 PM5 R
3214	212211805665	RST SM 0603 RC0603 4K7 PM5 R
3215	232270260103	RST SM 0603 RC21 10K PM5 R
3215	212211805669	RST SM 0603 RC0603 10K PM5 R
3216	232270260101	RST SM 0603 RC21 100R PM5 R
3216	212211805643	RST SM 0603 RC0603 100R PM5 R
3217	232270260101	RST SM 0603 RC21 100R PM5 R
3217	212211805643	RST SM 0603 RC0603 100R PM5 R
3219	232270260103	RST SM 0603 RC21 10K PM5 R
3219	212211805669	RST SM 0603 RC0603 10K PM5 R
3220	232270260223	RST SM 0603 RC21 22K PM5 R
3220	212211805674	RST SM 0603 RC0603 22K PM5 R
3221	232270260103	RST SM 0603 RC21 10K PM5 R
3221	212211805669	RST SM 0603 RC0603 10K PM5 R
3222	232270260103	RST SM 0603 RC21 10K PM5 R
3222	212211805669	RST SM 0603 RC0603 10K PM5 R
3223	232270260101	RST SM 0603 RC21 100R PM5 R
3223	212211805643	RST SM 0603 RC0603 100R PM5 R
3224	232270260101	RST SM 0603 RC21 100R PM5 R
3224	212211805643	RST SM 0603 RC0603 100R PM5 R
3225	232270260101	RST SM 0603 RC21 100R PM5 R
3225	212211805643	RST SM 0603 RC0603 100R PM5 R
3226	232270260101	RST SM 0603 RC21 100R PM5 R
3226	212211805643	RST SM 0603 RC0603 100R PM5 R
3227	232270260222	RST SM 0603 RC21 2K2 PM5 R
3227	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3228	232270260222	RST SM 0603 RC21 2K2 PM5 R
3228	212211805661	RST SM 0603 RC0603 2K2 PM5 R
3229	232270260104	RST SM 0603 RC21 100K PM5 R
3229	212211805683	RST SM 0603 RC0603 100K PM5 R
3230	232270260102	RST SM 0603 RC21 1K PM5 R
3230	212211805656	RST SM 0603 RC0603 1K PM5 R
3232	232270260101	RST SM 0603 RC21 100R PM5 R
3232	212211805643	RST SM 0603 RC0603 100R PM5 R
3233	232270467509	RST SM 0603 RC22H 75R PM1 R
3233	212211805964	RST SM 0603 RC0603 75R PM1 R
3234	232270260339	RST SM 0603 RC21 33R PM5 R
3234	212211805638	RST SM 0603 RC0603 33R PM5 R
3235	232270467509	RST SM 0603 RC22H 75R PM1 R
3235	212211805964	RST SM 0603 RC0603 75R PM1 R
3236	232270260101	RST SM 0603 RC21 100R PM5 R
3236	212211805643	RST SM 0603 RC0603 100R PM5 R
3237	232270467509	RST SM 0603 RC22H 75R PM1 R
3237	212211805964	RST SM 0603 RC0603 75R PM1 R
3238	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3238	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3239	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3239	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3240	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3240	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3242	232270260101	RST SM 0603 RC21 100R PM5 R
3242	212211805643	RST SM 0603 RC0603 100R PM5 R
3244	232270260101	RST SM 0603 RC21 100R PM5 R
3244	212211805643	RST SM 0603 RC0603 100R PM5 R
3301	232270260103	RST SM 0603 RC21 10K PM5 R
3301	212211805669	RST SM 0603 RC0603 10K PM5 R
3302	232270260103	RST SM 0603 RC21 10K PM5 R
3302	212211805669	RST SM 0603 RC0603 10K PM5 R
3316	232270260103	RST SM 0603 RC21 10K PM5 R
3316	212211805669	RST SM 0603 RC0603 10K PM5 R
3321	232270260103	RST SM 0603 RC21 10K PM5 R
3321	212211805669	RST SM 0603 RC0603 10K PM5 R
3322	232270260103	RST SM 0603 RC21 10K PM5 R
3322	212211805669	RST SM 0603 RC0603 10K PM5 R

Different Parts List

3323	232270260103	RST SM 0603 RC21 10K PM5 R
3323	212211805669	RST SM 0603 RC0603 10K PM5 R
3324	232270260103	RST SM 0603 RC21 10K PM5 R
3324	212211805669	RST SM 0603 RC0603 10K PM5 R
3325	232270260103	RST SM 0603 RC21 10K PM5 R
3325	212211805669	RST SM 0603 RC0603 10K PM5 R
3326	232270260101	RST SM 0603 RC21 100R PM5 R
3326	212211805643	RST SM 0603 RC0603 100R PM5 R
3327	232270260101	RST SM 0603 RC21 100R PM5 R
3327	212211805643	RST SM 0603 RC0603 100R PM5 R
3401	232270260101	RST SM 0603 RC21 100R PM5 R
3401	212211805643	RST SM 0603 RC0603 100R PM5 R
3402	232270260101	RST SM 0603 RC21 100R PM5 R
3402	212211805643	RST SM 0603 RC0603 100R PM5 R
3404	232270260121	RST SM 0603 RC21 120R PM5 R
3404	212211805644	RST SM 0603 RC0603 120R PM5 R
3405	232270260121	RST SM 0603 RC21 120R PM5 R
3405	212211805644	RST SM 0603 RC0603 120R PM5 R
3406	232270260121	RST SM 0603 RC21 120R PM5 R
3406	212211805644	RST SM 0603 RC0603 120R PM5 R
3408	232270461002	RST SM 0603 RC22H 1K PM1 R
3408	212211805965	RST SM 0603 RC0603 1K PM1 R
3409	232270260479	RST SM 0603 RC21 47R PM5 R
3409	212211805639	RST SM 0603 RC0603 47R PM5 R
3449	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3449	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3501	232270260479	RST SM 0603 RC21 47R PM5 R
3501	212211805639	RST SM 0603 RC0603 47R PM5 R
3502	232270260479	RST SM 0603 RC21 47R PM5 R
3502	212211805639	RST SM 0603 RC0603 47R PM5 R
3503	232270260103	RST SM 0603 RC21 10K PM5 R
3503	212211805669	RST SM 0603 RC0603 10K PM5 R
3504	232270260103	RST SM 0603 RC21 10K PM5 R
3504	212211805669	RST SM 0603 RC0603 10K PM5 R
3505	232270260101	RST SM 0603 RC21 100R PM5 R
3505	212211805643	RST SM 0603 RC0603 100R PM5 R
3506	232270260101	RST SM 0603 RC21 100R PM5 R
3506	212211805643	RST SM 0603 RC0603 100R PM5 R
3507	232270260101	RST SM 0603 RC21 100R PM5 R
3507	212211805643	RST SM 0603 RC0603 100R PM5 R
3508	232270260101	RST SM 0603 RC21 100R PM5 R
3508	212211805643	RST SM 0603 RC0603 100R PM5 R
3509	232270260221	RST SM 0603 RC21 220R PM5 R
3509	212211805647	RST SM 0603 RC0603 220R PM5 R
3510	232270260103	RST SM 0603 RC21 10K PM5 R
3510	212211805669	RST SM 0603 RC0603 10K PM5 R
3511	232270260221	RST SM 0603 RC21 220R PM5 R
3511	212211805647	RST SM 0603 RC0603 220R PM5 R
3512	232270260103	RST SM 0603 RC21 10K PM5 R
3512	212211805669	RST SM 0603 RC0603 10K PM5 R
3513	232270260103	RST SM 0603 RC21 10K PM5 R
3513	212211805669	RST SM 0603 RC0603 10K PM5 R
3514	232270260103	RST SM 0603 RC21 10K PM5 R
3514	212211805669	RST SM 0603 RC0603 10K PM5 R
3515	232270260103	RST SM 0603 RC21 10K PM5 R
3515	212211805669	RST SM 0603 RC0603 10K PM5 R
3516	232270260103	RST SM 0603 RC21 10K PM5 R
3516	212211805669	RST SM 0603 RC0603 10K PM5 R
3517	232270260473	RST SM 0603 RC21 47K PM5 R
3517	212211805678	RST SM 0603 RC0603 47K PM5 R
3518	232270260473	RST SM 0603 RC21 47K PM5 R
3518	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270296001	RST SM 0603 JUMP. MAX 0R05 R
3521	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3525	232270296001	RST SM 0603 JUMP. MAX 0R05 R

3525	212211805631	RST SM 0603 JUMP. MAX 0R05 R
5201	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5202	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5301	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5401	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5402	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5403	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5404	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5405	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5406	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5407	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5408	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5409	242254945582	IND FXD 0805 EMI 100MHZ 300R R
5410	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5501	313816874261	TI321611G800-SMD
5502	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5502	313816874261	TI321611G800-SMD
5503	242254945579	IND FXD 1206 EMI 100MHZ 100R R
5503	313816874261	TI321611G800-SMD
5504	242254944196	IND FXD 0805 EMI 100MHZ 120R R
5505	242254944196	IND FXD 0805 EMI 100MHZ 120R R
6202	933137390215	DIO REG SM BZX84-C5V1 (PHSE) R
6202	932214638685	DIO REG SM BZX84-C5V1 (VISH) R
6220	933742280215	DIO SIG SM BAT54 (PHSE) R
6220	932216672685	DIO SIG SM BAT54 (ONSE) R
6222	933913910115	DIO SIG SM BAS32L (PHSE) R
6222	933952510685	DIO SIG SM LL4148 (VISH) R
6222	932205976685	DIO SIG SM LS4148 (VISH) R
6223	933742280215	DIO SIG SM BAT54 (PHSE) R
6223	932216672685	DIO SIG SM BAT54 (ONSE) R
7202	932217232668	IC SM S524C20D21 (SMGK) R
7202	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7203	932214526668	IC SM M24C02-WMN6 (ST00) R
7203	932217232668	IC SM S524C20D21 (SMGK) R
7203	932216972682	IC SM AT24C02N-10SC-2.7(ATME)L
7204	935260739118	IC SM 74LVC14APW (PHSE) R
7204	932217126668	IC SM 74LCX14T (ST00) R
7301	932217946682	IC SM M29W010B-90K1 (ST00) L
7301	932217936671	IC SM AT49LV001NT-90JC(ATME) Y
7301	932219386682	IC SM M29W022BT55K1 (ST00) L
7301	932219106682	IC SM AT49LV002NT-90JC (ATME)L
7403	932220099685	IC SM LD1117AS18 (ST00) R
7404	823827715051	SCALER IC
7503	932209265685	TRA SIG SM MUN2211J (ONSE) R
7503	932217440685	TRA SIG SM KRC102S (KEC0) R
7504	932216638668	FET POW SM SI5441DC (VISH) R
8161	823827715091	AUDIO CONTROL WIRE 11P
8161	823827715081	AUDIO CONTROL WIRE 11P
8163	823827715071	LVDS CABLE 20+30P
8163	823827715061	LVDS CABLE 20+30P

Configuration and procedure

"Easywriter " The software is provided by Novatek to upgrade the firmware of CPU.
It is a windows-based program, which cannot be run in MS-DOS.
DDC2BI_ISP TOOL (3138 149 53161) is for the interface between "Parallel Port of PC" and "15 pin-D-SUB connector of Monitor".

System and equipment requirements

1. An i486 (or above) personal computer or compatible.
2. Microsoft operation system Windows 95/98/2000/XP.
3. ISP Software **"Easywriter "**
4. **DDC2BI_ISP TOOL (3138 149 53161)** as shown in Fig. 1

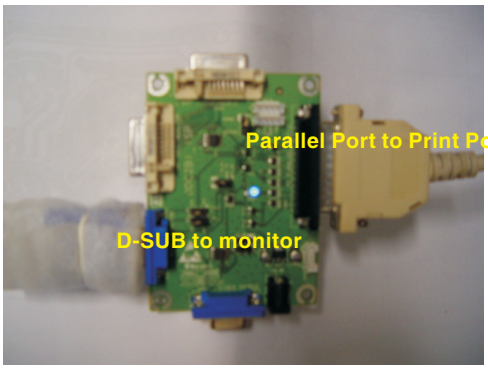


Fig. 1

5. Connect **DDC2BI_ISP TOOL** and Mains cord to Monitor as shown in Fig. 2.

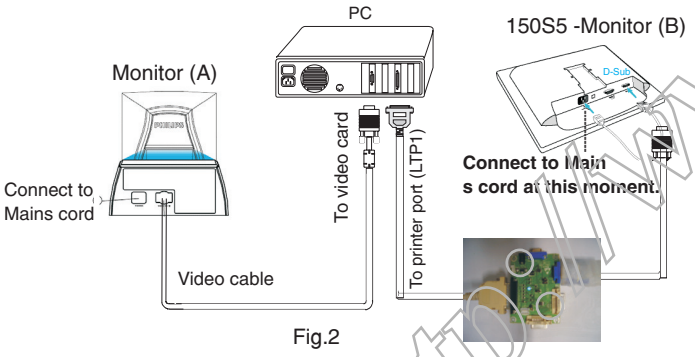


Fig.2

6. Install and setup the Easywriter program

Step 1 : Make a folder in your PC as shown in Fig. 3.
For example : C:\150S5
Step 2 : Copy ISP Software Easywriter.zip into your folder as shown in Fig.3.
Step 3 : Unzip Easywriter.zip into your folder as shown in Fig. 3.

Step 4 : Double click the EasywriterV2.06a_user.exe icon to install the Application as Fig. 4.

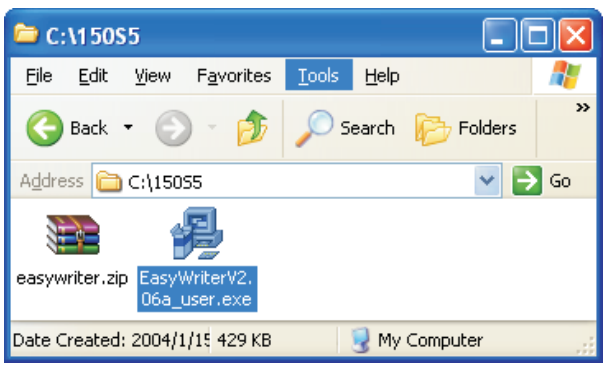


Fig. 3

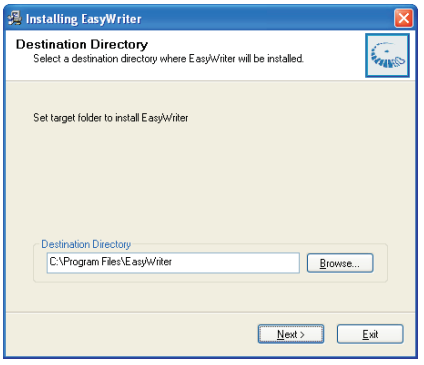


Fig. 4

Step 5 :Copy the V200.hex to C:\150S5 as shown in Fig. 5 .

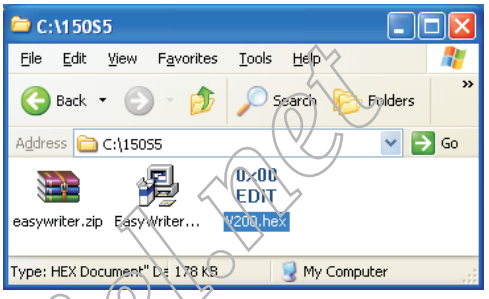


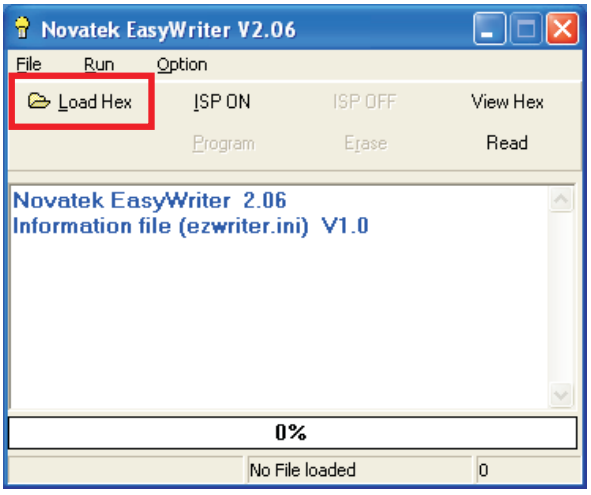
Fig. 5

Update the firmware

1. Double click the Easywriter.exe icon in desktop then appears window as shown in Fig.7 .

Fig. 6

Fig. 7



2. Press the Load hex then select the V200.hex as shown in Fig. 8.

3. From the menu that appears, choose the "NT68F633(64K)" as shown in Fig. 9.

Fig. 8

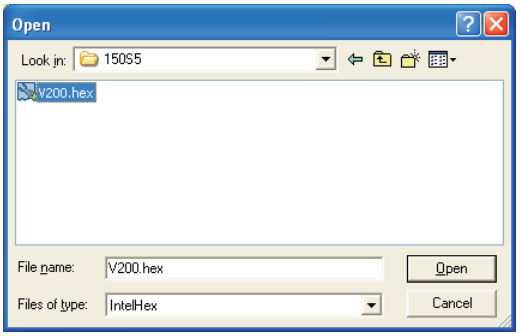
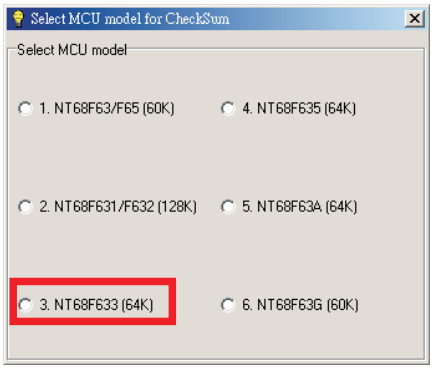
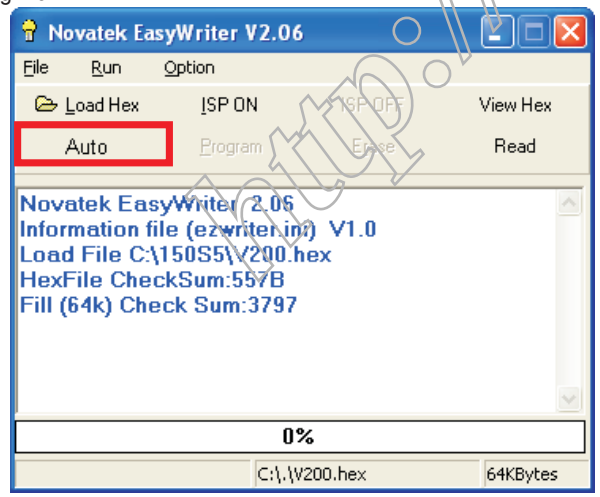


Fig. 9



4 Press the AUTO to running program , the firmware be updated as shown in Fig. 10~11.

Fig. 10



4 Press the file --> exit to end program , as shown in Fig. 12.

Fig. 11

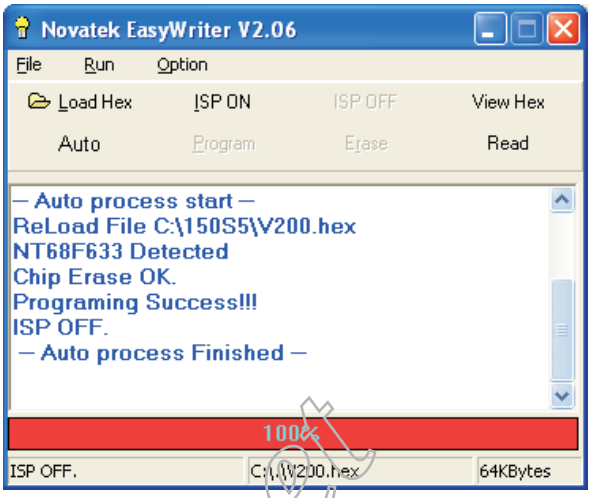
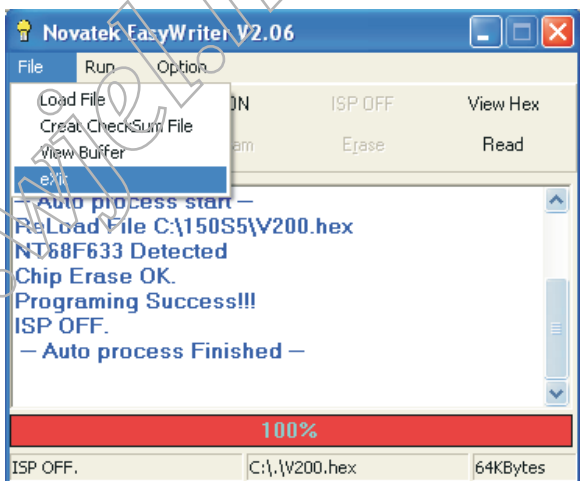


Fig. 12



If there is a warring message coming as shown in Fig 13. , you have to check the AC power, Video cable, or Novatek MCU.

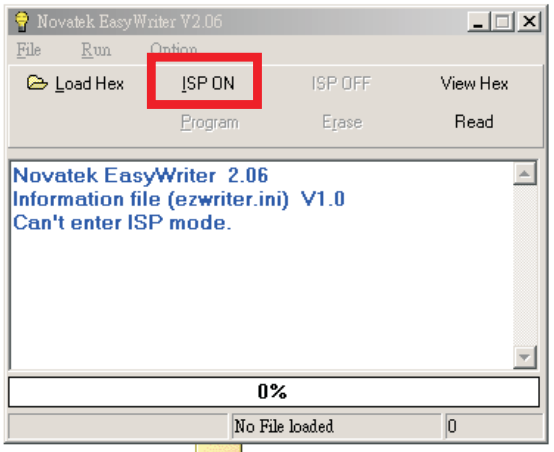
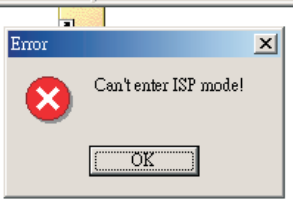


Fig. 13



DDC Instructions

General

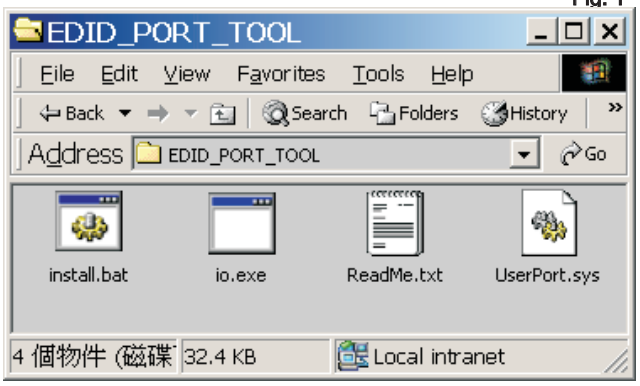
DDC Data Re-programming
In case the DDC data memory IC or main EEPROM which storage all factory settings were replaced due to a defect, the serial numbers have to be re-programmed"**Analog DDC IC, & EEPROM**".
It is advised to re-soldered DDC IC and main EEPROM from the old board onto the new board if circuit board have been replaced, in this case the DDC data does not need to be re-programmed.

Additional information
Additional information about DDC (Display Data Channel) may be obtained from Video Electronics Standards Association (VESA). Extended Display Identification Data(EDID) information may be also obtained from VESA.

System and equipment requirements

1. An i486 (or above) personal computer or compatible.
2. Microsoft operation system Windows 95/98 .
   You have to Install the EDID_PORT_Tool under Win2000/XP . As Fig. 1 .

Fig. 1



A. Cody the "UserPort.sys" to C:\WINNT\system32\drivers(win2000)

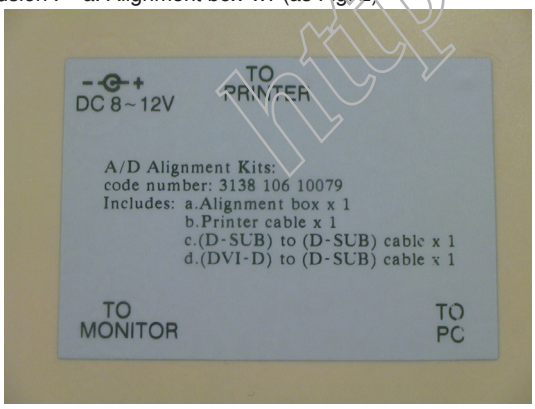
C:\WINDOWS\system32\drivers(winXP)

B. Running " io.exe" everytime, Before you start to programming edid data .

3. EDID46.EXE program .

4. A/D Alignment kits (3138 106 10079):
   inclusion : a. Alignment box x1 (as Fig. 2)

Fig. 2



b. Printer cable x1
c. (D-Sub) to (D-Sub) cable x1

Note: The EDID46.EXE is a windows-based program, which cannot be run in MS-DOS.

Note: The alignment box has already build-in a batteries socket for using **batteries (8~12V)** as power source. Pull out the socket by remove four screws at the rear of box. Please do not forget that remove batteries after programming. The energy of batteries can only drive circuits for a short period of time.

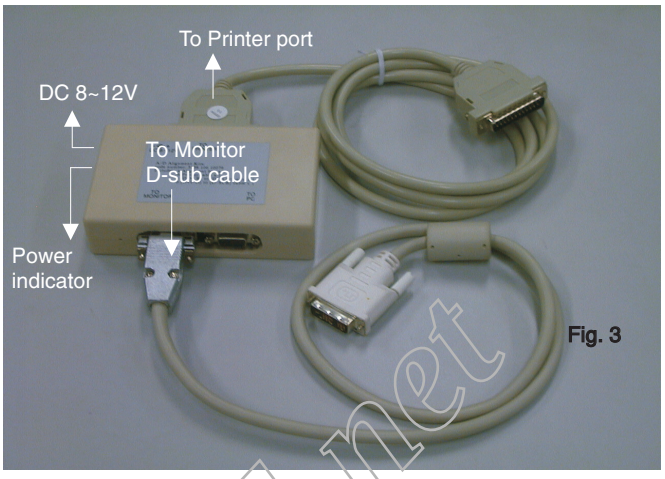
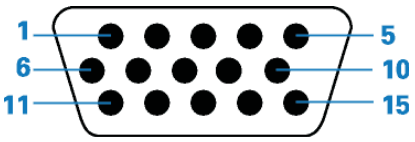


Fig. 3

Pin assignment

A. 15-pin D-Sub Connector



PIN No.	SIGNAL
1	Red
2	Green/SOG
3	Blue
4	Sense (GND)
5	Test (GND)
6	Red GND
7	Green GND
8	Blue GND
9	+5V
10	Sync GND
11	Sense (GND)
12	Serial data (SDA)
13	H/H+V sync
14	V-sync
15	Data clock (SCL)

Configuration and procedure

There are 2 chips contained OSD string, serial number..etc on the circuit board, main EEPROM which storage all factory settings,OSD string. DDC IC which storage 128byte EDID data(serial number ..etc.). Following descirptions are the connection and procedure for Analog and main EEPROM can be re-programmed along with Analog/Digital IC by enable factory memory data write function on the DDC program (EDID46.EXE).

Initialize alignment box

In order to avoid that monitor entering power saving mode due to sync will cut off by alignment box, it is necessary to initialize alignment box before running programming software (EDID46.EXE). Following steps show you the procedures and connection.

Step 1: Supply 8-12V DC power source to the Alignment box by plugging a DC power cord or using batteries.
Step 2: Connecting printer cable and D-Sub cable of monitor as Fig. 4

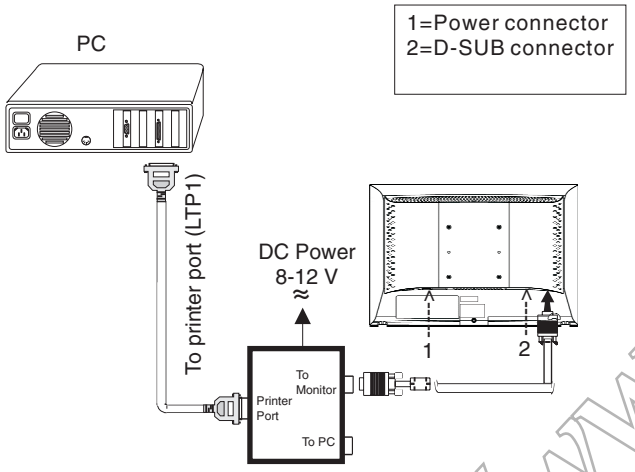


Fig. 4

Step 3: Installation of EDID46.EXE

Method 1: Start on DDC program

Start Microsoft Windows.
1. The Program"EDID46.EXE" in service manual cd-rom be copyed to C:\ .
2. Click Start , choose Run at start menu of Windows as shown In Fig. 5.

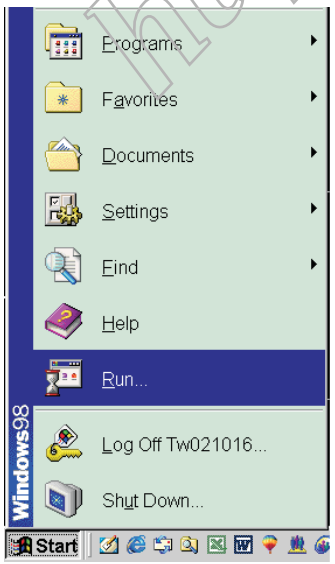


Fig. 5

3. At the submenu, type the letter of your computer's hard disk drive followed by :EDID46 (for example, C:\EDID46, as shown in Fig. 6).

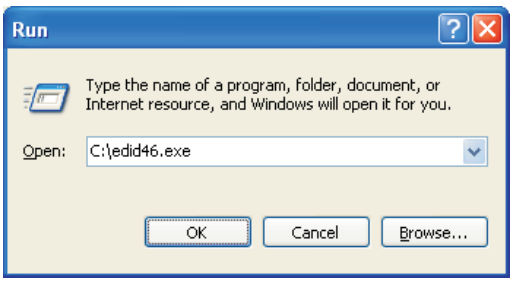


Fig. 6

4. Click **OK** button. The main menu appears (as shown in Fig. 7). **This is for initialize alignment box.**

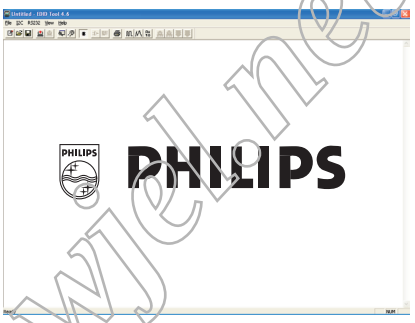


Fig. 7

Note 1: If the connection is improper, you will see the following error message (as shown in Fig. 8) before entering the main menu. Meanwhile, the (read EDID) function will be disable. At this time, please make sure all cables are connected correctly and fixedly, and the procedure has been performed properly.

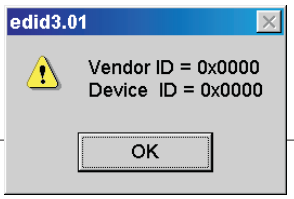


Fig. 8

Note 2: During the loading, EDID46 will verify the EDID data which just loaded from monitor before proceed any further function, once the data structure of EDID can not be recognized, the following error message will appear on the screen as below. Please confirm following steps to avoid this message.
1. The data structure of EDID was incorrect.
2. DDC IC that you are trying to load data is empty.
3. Wrong communication channel has set at configuration setup windows.
4. Cables loosed or poor contact of connection.

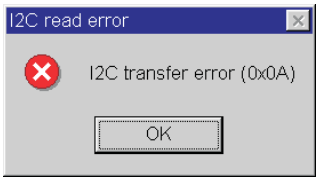


Fig. 9

DDC Instructions

Re-programming Analog DDC IC

Step 1: After initialize alignment box, connecting all cables and box as shown in Fig. 10

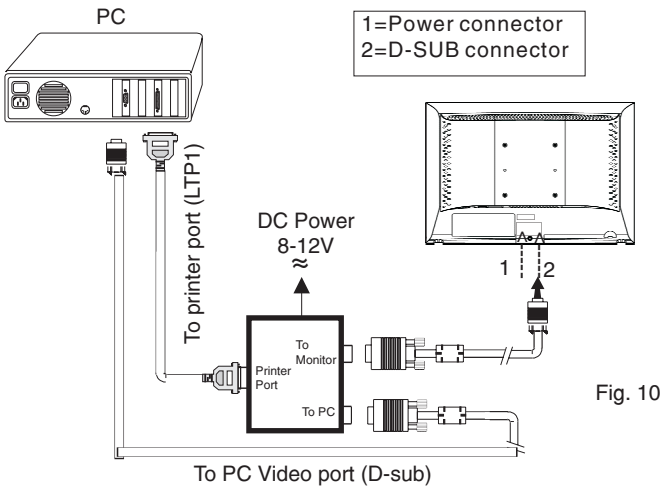


Fig. 10

Step 2: Read DDC data from monitor

1. Click icon as shown in Fig. 11 from the tool bar to bring up the Channels "Configuration Setup" windows as shown in Fig. 12.

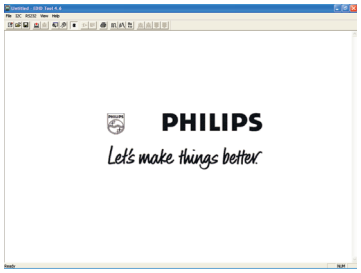


Fig. 11

2. Select the DDC2Bi as the communication channel. As shown in Fig. 12.

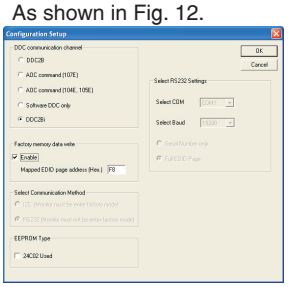


Fig. 12

3. Click OK button to confirm your selection.

4. Click icon (Read EDID function) to read DDC EDID data from monitor. The EDID codes will display on screen as shown in Fig. 13.

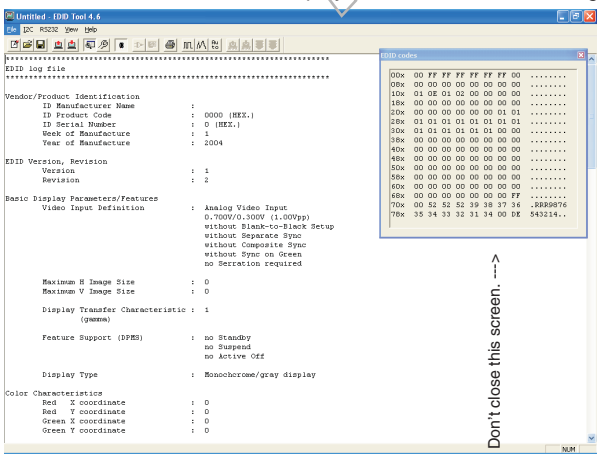


Fig. 13

Step 3: Modify DDC data (verify EDID version, week, year)

1. Click (new function) icon from the tool bar, bring up Step 1 of 9 as shown in Fig. 14 .
EDID46 DDC application provides the function selection and text change (select & fill out) from Step 1 to Step 9.

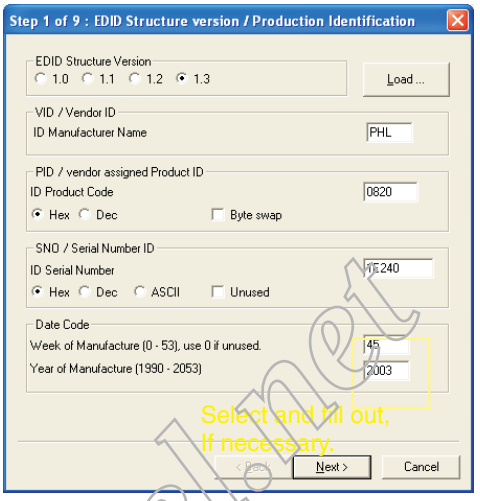


Fig. 14

Step 4: Modify DDC data (Monitor Serial No.)

1. Click **Next** , bring up Fig. 15.

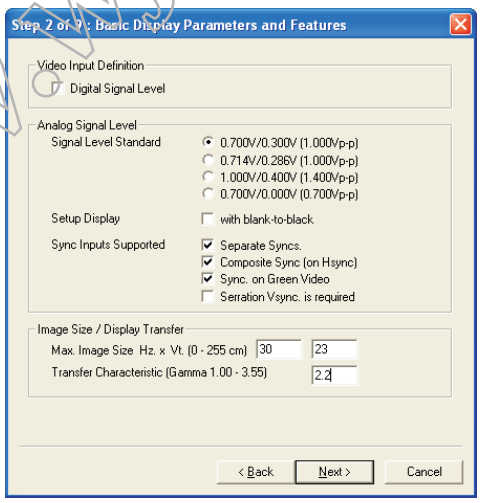


Fig. 15

2. Click **Next** , bring up Fig. 16.

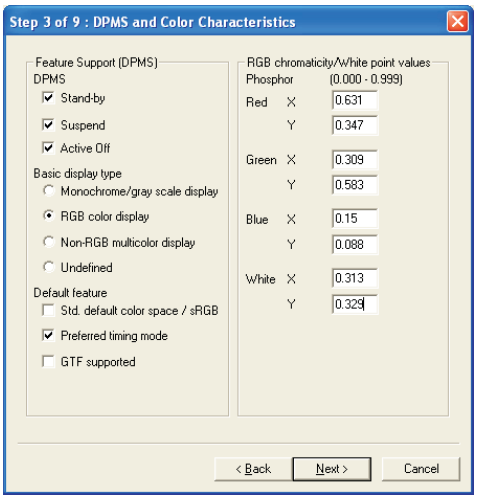


Fig. 16

3. Click **Next** , bring up Fig. 17.

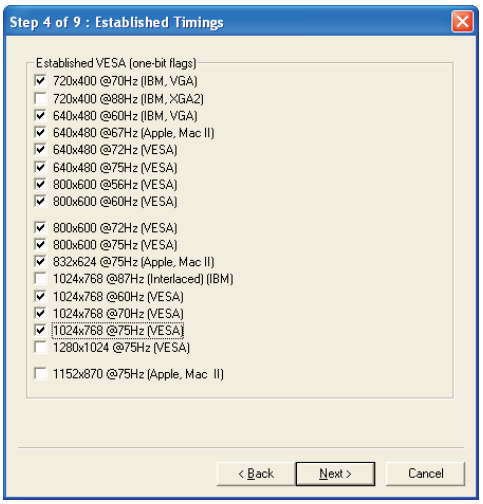


Fig. 17

4. Click **Next** , bring up Fig. 18.

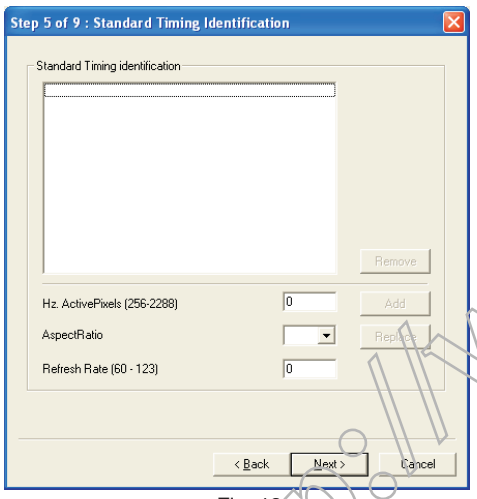


Fig. 18

5. Click **Next** , bring up Fig. 19.

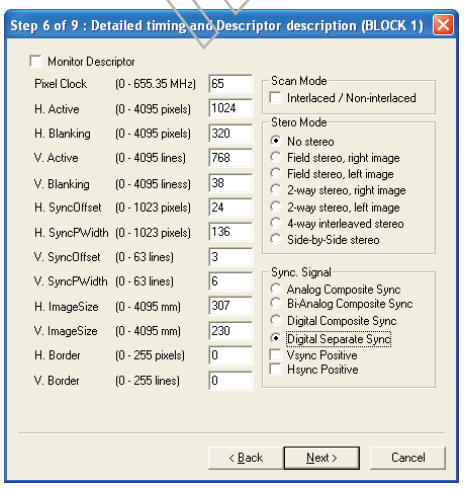


Fig. 19

6. Click **Next** , bring up Fig. 20.

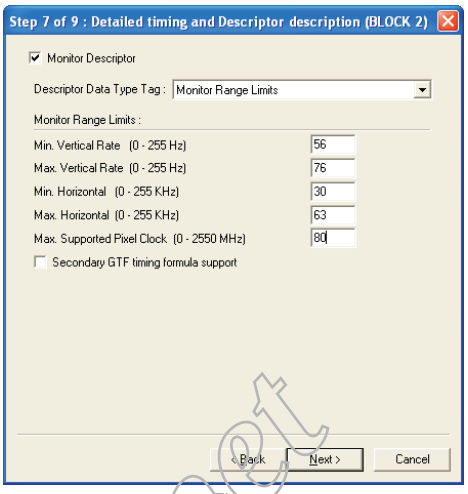


Fig. 20

7. Click **Next** , bring up Fig. 21.

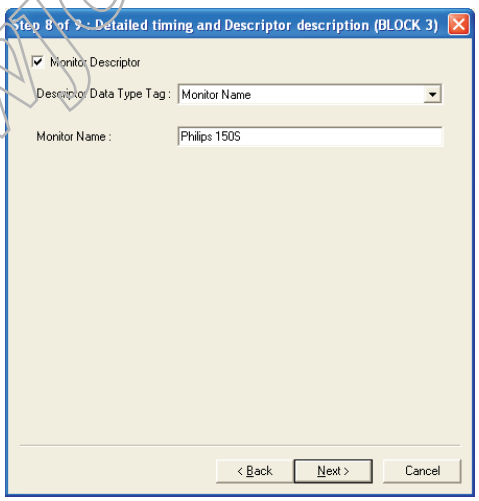


Fig. 21

8. Click **Next** , bring up Fig. 22.
   - Serial number can be filled up or be changed at this moment.
   - Click **Finish** to exit the Step window.

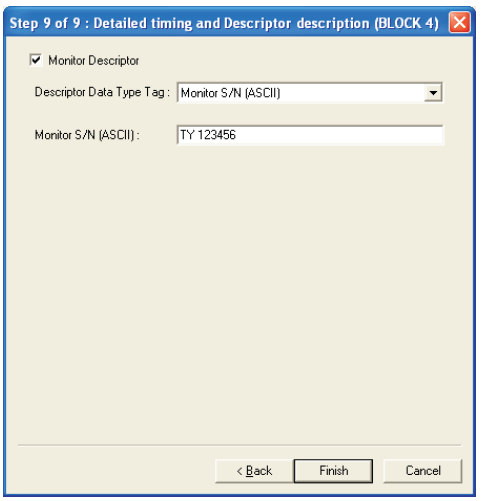


Fig. 22

DDC Instructions

Step 6: Write DDC data

1. Configuration should be as Fig. 23. And press OK.

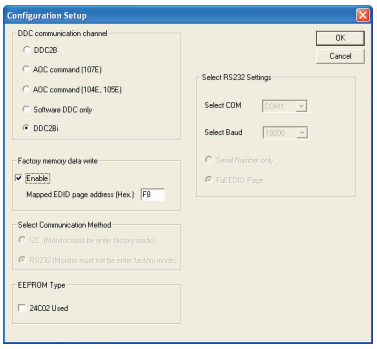


Fig. 23

2. Access Factory Mode

Step 1 :
Turn off monitor.

Step 2 :
[Push AUTO " AUTO " & OK " OK " buttons at the same time and hold it] + [Press power " ⏻ " button untill comes out "Windows screen"] => then release all buttons.

3. Click (Write EDID) icon from the tool bar to write DDC data. Bring up "Writing 0%~100%, ready" a progressing bar on the left down corner.
4. Turn off/on monitor
5. Press the OK button to bring up the OSD main manu.
6. Press the DOWN button to select PRODUCTION INFORMATION press the OK button to confirm our selection.
7. Re-confirm the serial Number is updated.

Step 7: Save DDC data

Sometimes, you may need to save DDC data as a text file for using in other IC chip. To save DDC data, follow the steps below:

1. Click (Save) icon (or click "file"-> "save as") from the tool bar And give a file name as shown in Fig. 24.
The file type is EDID46 file (*.ddc) which can be open in WordPad. By using WordPad, the texts of DDC data & table (128 bytes, hex code) can be modified. If DDC TEXTS & HEX Table are completely correct, it can be saved as .ddc file to re-load it into DDC IC for DDC Data application.

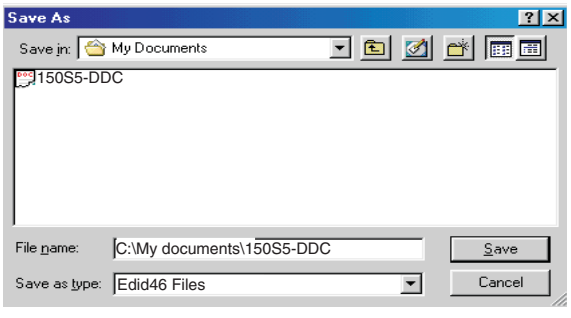


Fig. 24

Step 8: Exit DDC program

Pull down the File menu and select Exit as shown in Fig. 25.

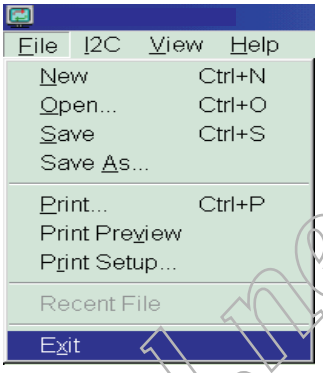


Fig. 25

DDC Data

```
**********************************************************************
EDID log file
**********************************************************************

Vendor/Product Identification
        ID Manufacturer Name        : PHL
        ID Product Code             : 0820 (HEX.)
        ID Serial Number            : 1E240 (HEX.)
        Week of Manufacture         : 45
        Year of Manufacture         : 2003

EDID Version, Revision
        Version                 : 1
        Revision                : 3

Basic Display Parameters/Features
        Video Input Definition      : Analog Video Input
                                      0.700V/0.300V (1.00Vpp)
                                      without Blank-to-Black Setup
                                      Separate Sync
                                      Composite Sync
                                      Sync on Green
                                      no Serration required

        Maximum H Image Size        : 30
        Maximum V Image Size        : 23

        Display Transfer Characteristic : 2.2
                (gamma)

        Feature Support (DPMS)      : Standby
                                      Suspend
                                      Active Off

        Display Type            : RGB color display
        Preferred Timing Mode   : Detailed timing block 1

Color Characteristics
        Red   X coordinate          : 0.631
        Red   Y coordinate          : 0.347
        Green X coordinate          : 0.309
        Green Y coordinate          : 0.583
        Blue  X coordinate          : 0.15
        Blue  Y coordinate          : 0.088
        White X coordinate          : 0.313
        White Y coordinate          : 0.329

Established Timings
        Established Timings I : 720 x 400 @70Hz (IBM,VGA)
                                640 x 480 @60Hz (IBM,VGA)
                                640 x 480 @67Hz (Apple,Mac II)
                                640 x 480 @72Hz (VESA)
                                640 x 480 @75Hz (VESA)
                                800 x 600 @56Hz (VESA)
                                800 x 600 @60Hz (VESA)

        Established Timings II:800 x 600 @72Hz (VESA)
                               800 x 600 @75Hz (VESA)
                               832 x 624 @75Hz (Apple,Mac II)
                               1024 x 768 @60Hz (VESA)
                               1024 x 768 @70Hz (VESA)
                               1024 x 768 @75Hz (VESA)

        Manufacturer's timings      :
Standard Timing Identification      : Unused

Detailed Timing #1
        Pixel Clock (MHz)           : 65
        H Active (pixels)           : 1024
        H Blanking (pixels)         : 320
        V Active (lines)            : 768
        V Blanking (lines)          : 38
        H Sync Offset (F Porch) (pixels): 24
        H Sync Pulse Width (pixels)     : 136
        V Sync Offset (F Porch) (lines) : 3
        V Sync Pulse Width (lines)      : 6
        H Image Size (mm)           : 307
        V Image Size (mm)           : 230
        H Border (pixels)           : 0
        V Border (lines)            : 0
        Flags                       : Non-interlaced
                                      : Normal Display, No stereo
                                      : Digital Separate sync.
                                      : Negative Vertical Sync.
                                      : Negative Horizontal Sync.

Monitor Descriptor #2
        Monitor Range Limits
        Min. Vt rate Hz             : 56
        Max. Vt rate Hz             : 76
        Min. Horiz. rate kHz        : 30
        Max. Horiz. rate kHz        : 63
        Max. Supported Pixel        : 80

        No secondary GTF timing formula supported.

Monitor Descriptor #3
        Monitor Name                : Philips 150S

Monitor Descriptor #4
        Serial Number               : TY 123456

Extension Flag                  : 0

Check sum                       : 4D (HEX.)

**********************************************************************
EDID data (128 bytes)
**********************************************************************

 0: 00  1: ff  2: ff  3: ff  4: ff  5: ff  6: ff  7: 00
 8: 41  9: 0c 10: 20 11: 08 12: 40 13: e2 14: 01 15: 00
16: 2d 17: 0d 18: 01 19: 03 20: 0e 21: 1e 22: 17 23: 78
24: ea 25: b1 26: a5 27: a1 28: 58 29: 4f 30: 95 31: 26
32: 16 33: 50 34: 54 35: bf 36: ee 37: 00 38: 01 39: 01
40: 01 41: 01 42: 01 43: 01 44: 01 45: 01 46: 01 47: 01
48: 01 49: 01 50: 01 51: 01 52: 01 53: 01 54: 64 55: 19
56: 00 57: 40 58: 41 59: 00 60: 26 61: 30 62: 18 63: 88
64: 36 65: 00 66: 33 67: e6 68: 10 69: 00 70: 00 71: 18
72: 00 73: 00 74: 00 75: fd 76: 00 77: 38 78: 4c 79: 1e
80: 3f 81: 08 82: 00 83: 0a 84: 20 85: 20 86: 20 87: 20
88: 20 89: 20 90: 00 91: 00 92: 00 93: fc 94: 00 95: 50
96: 68 97: 69 98: 6c 99: 69 100: 70 101: 73 102: 20 103: 31
104: 35 105: 30 106: 53 107: 0a 108: 00 109: 00 110: 00 111: ff
112: 00 113: 54 114: 59 115: 20 116: 31 117: 32 118: 33 119: 34
120: 35 121: 36 122: 0a 123: 20 124: 20 125: 20 126: 00 127: 4d
```