FL-1 Wide LCD Monitor / TV

Chassis Name: TPF 1.4U LA

Service
Service
Service

26MF605W/17
32MF605W/17

Service Manual

Horizontal frequencies
30 - 50 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

Ⓚ Feb. 08 2006 GB 3138 106 10446

飛利浦

PHILIPS

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Important Safety Notice

Go to cover page

Proper service and repair isimportant to the safe, reliable operation of all HPConsumer Electronics Company** Equipment. The service procedures recommended by HP and described in this service manual are effective methods of performing service operations. Some ofthese 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. HP 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, HP has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by HP 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, HP Consumer Electronics Company will bereferred to as HP.

WARNING

Critical components having special safety characteristics are identified with a bythe Ref. No. inthe 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 moduleusing mounting holes arranged infour corners.
- Do not press onthe panel, edge of theframe strongly or electric shock as this will result in damage to the screen.
- Do not scratch orpress on the panel withany sharp objects, such as pencil or pen asthis may result in damage to the panel.
- Protect the module fromthe ESD as it maydamage the electronic circuit (C-MOS).
- Make certain that treatment person s body are grounded through wrist band.
- Do not leave themodule in high temperature andin areas of high humidity for a long time.
- Avoid contact with water as it may ashort circuit within the module.
- If the surface ofpanel become dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

LCD panel

Type NR.	: LC260WX2 (Supplier LPL)
Outline dimensions	: 626.0(H) x 373.0(V) x 44.1(D) mm (Typ.)
Pitch (mm)	: 0.4215(H) x 0.4215(V)
Pixel format	: 1366 hori. By 768 vert. pixels
Color pixel arrangement	: RGB vertical stripe
Display surface	: Hard coating(3H),Anti-glare treatment of the front polarizer
Number of color	: 16,777,216 colors (8 bits)
Backlight	: 18 EEFL
Active area (WxH)	: 575.769mm x 323.712mm
View angle	: Viewing angle free(R/L 176(Typ.), U/D 176(Typ.))
Contrast ratio	: Typical 600 : 1
Luminance of white	: 500 cd/m^2(Center 1 points, Typ.)
AC-input	: 90V ~ 264VAC,50/602Hz
Power consumption	: 70W/Typ(at PC mode),105W/Typ(at TV mode).
Power cord length	: 1.8M
Power cord type	: 3 lead with earth plug , plugable (US type)
Power indicator	: LED (On: Green ,Sleeping mode: Amber)
Auto power saving	: EPA, Nutek, VESA DPMS
Horizontal scan	: 30 ~ 50KHz
Vertical scan	: 56 ~ 63 Hz

Display mode : Multi-modes

Horizontal scanning

Sync polarity : Positive or negative
Scanning frequency : 30 ~ 50 KHz

Vertical scanning

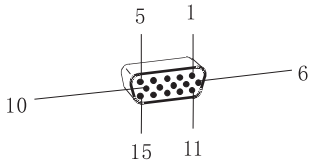
Sync polarity : Positive or negative
Scanning frequency : 56 ~ 63 Hz

White balance Adjustment

Normal X (center) = 0.289 ± 0.030
(8500 ° K CIE Coordinates) Y (center) = 0.304 ± 0.030

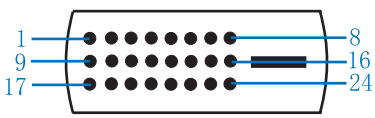
Note: Use Minolta CA-110 for color coordinates and luminance check.

Pin Assignment



Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	DDC +3.3V OR +5V
2	Green video input	10	GND
3	Blue video input	11	GND
4	GND	12	Serial data line (SDA)
5	Cable detect	13	H-sync
6	Red video GND	14	V-sync
7	Green video GND	15	Data clock line (SCL)
8	Blue video GND		

Input DVI-D connector pin



Pin No.	Description
1	RX2-
2	RX2+
3	GND
4	GND
5	GND
6	DDC clock
7	DDC data
8	GND
9	RX1-
10	RX1+
11	GND
12	GND
13	GND
14	+5V
15	DVI-D self test
16	+5V
17	RX0-
18	RX0+
19	GND
20	GND
21	GND
22	GND
23	RXC+
24	RXC-

Environmental conditions

Operating
- Temperature : 0 to 40 ℃
- Humidity : 10 to 95%(non - condensing)
- Altitude : 0 to 12000 feet
- Air pressure : 600 to 1100 mBAR
- (guaranteed optical performance) : 5 to 35 ℃
- (guaranteed functional performance) : 5 to 40℃

Storage
- Temperature : -20 to 50 ℃
- Humidity : 10 to 95% (non - condensing)
- Air pressure : 600 to 1100 mBAR

Note: recommend at 0 to 35°C, Humidity less than 60 %

Shipping
- Temperature :(-20 to 50 ℃)
- Humidity : 10 to 95% (non - condensing)
- Altitude : 0 to 40000 feet (non operating)
- Air pressure : 600 to 1100

Marking and identification

In accordance with UAN-D1109 and the approval marking required by the countries of destination.

Safety and EMI requirements

Safety requirement: CSA C22.2 NO.950-95, UL1950, UL, CSA, NOM
Ergonomic Requirement: TUV/GS, TUV/ERG, ISO13406-2 And the relevant national safety standards.
EMI requirement : FCC Part 15 Class B, ICES-003
Power Management: EPA

Electrical characteristics and performance

Test signal and test method in accordance with test instructions sheet 161 of the product where applicable.

Input signals
a. Analog Video : 15 pin D-Sub 0.7 Vp-p linear, positive polarity and separate Sync (TTL level, positive or negative polarity)
b. Audio signal : Mini-jack audio input
c. Signal source : Pattern generator format as attachment (Timing table 1 to 6)
d. Reference generator : CHROMA 2135 or 2250

Technical Data(Continued)

Go to cover page

TV Signal type :

Signal type	Video signal	Audio signal
Video1/Video2/ Video3	Input RCA Jack, Yellow	Share with S-Video or Component RCA Jack , White / Red
S-Video1/ S_Video2	Input S-terminal, Black	Share with Video1/Video2 RCA Jack, white / Red
Component	InputRCA Jack, Y, Pb , Pr, Green, Blue, Red	Share with Video3 RCA Jack, white / Red
PVR	Output (CVBS include Tuner) RCA Jack , Yellow	Output (CVBS audio) RCA Jack, white / Red
DVI IN	Digital TV signal support HDCP DVI connector	Input, L/R RCA Jack, white / Red
HD IN	Input RCA Jack, Y, Pb, Pr Green, Blue, Red	Input, L/R RCA Jack, white / Red
RF IN	Aerial Input	
Headphone		Output 3.5mm stereo jack

Front/Top control panel definition:

Power SW : Power switch.
Power LED : Normal operation→Green.
Sleeping mode→Amber.
+Up/Down- : Channel up and down, and OSD cursor up and down.
-Left/Right+ : Volume up and down, and OSD cursor left and right
Menu : Enable and EXIT OSD menu(enter key for PC).
IR receiver : Sense the signal from RC handset.

Remote control unit definition

Function Keys

The remote control is used in all PC and TV modes:

At PC mode function keys:

1. Press MENU Key to call Monitor Menu
2. Press Up/Down/Left/Right Key to select Monitor function
3. Left/Right is Volume Hot Key.
4. Use remote controller to control all PC menu function.

At TV mode function keys:

1. Press MENU Key to display TV Menu
2. Press Up/Down/Left/Right Key to select TV function
3. Up/Down Key is Channel Hot Key.
4. Left/Right Key is Volume Hot Key.
5. Use remote controller to control all TV menu function.

Display (for preset mode only)

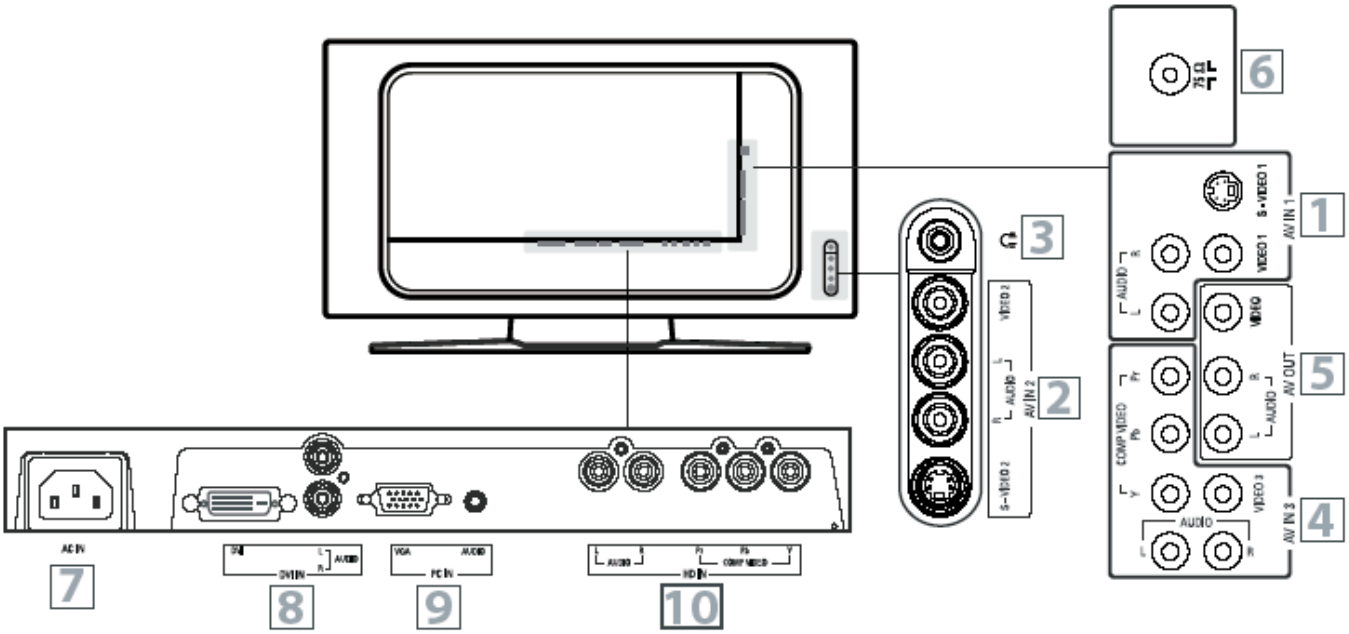
Actual display size: 575.769mm X 323.712mm
Resolution
Factory Preset modes (6 modes)

Dot rate (MHz)		H.freq (KHz)	Mode	Resolution	V.freq (Hz)
	25.175	31.469	IBM VGA	640 * 480	59.94
	36	35.156	VESA	800 * 600	56.25
	40.00	37.879	VESA	800 * 600	60.316
	65.00	48.363	VESA	1024 * 768	60.004
CVT	74.5	47.772	WXGA	1280 * 720	59.855
CVT	79.5	47.776	WXGA	1280 * 768	59.87

Brightness output (Video signal 0.7V ± 2%)

Apply a 1280X768@60Hz signal with full white pattern, the center of screen at original color brightness light output is

Brightness control	Contrast control	Light output Unit: nit
100%	100%	> 400



1 AV IN 1

Connects to the output jacks of your VCR or other video equipment.

2 AV IN 2

Connects to the output jacks of your VCR or other video equipment.

3 Headphones jack

Connect to your headphones.

4 AV IN 3

Y, Pb, Pr Input jacks

Connects to the component video connectors of your DVD player or other video equipments with SD (Standard Definition) video format.

5 AV OUT

Connects to the input jacks of your video and audio equipment.

Video output through AV OUT jacks is available only when your LCD TV is displaying CVBS or RF signals.

6 VHF/UHF

Connect to your VHF/UHF antenna or cable

7 AC IN

Connects the supplied AC power cord.

8 DVI IN (HDCP)

Connect to your DVD player or other video equipment with DVI/HDCP output connectors.

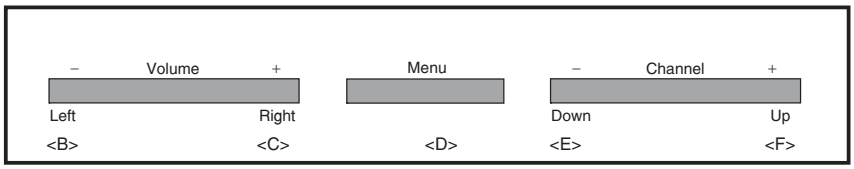
9 PC IN

Connect to your PC with VGA type video output.

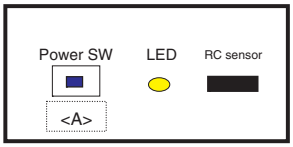
10 HD (High Definition) IN

Connect to the Digital Satellite Receiver or other video equipments that supports YPbPr HD (High Definition) video format.

Top Control



Front Control

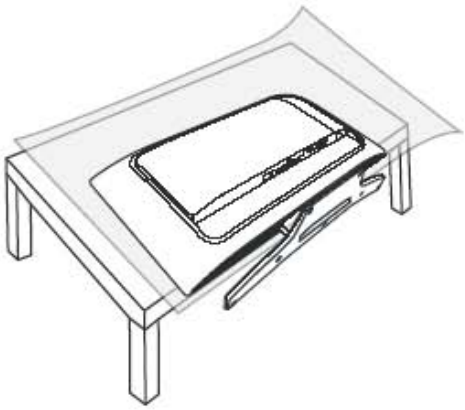


Key	Function	VGA mode	TV/video mode
<A>	Power	DC Power	DC Power
<B>	Left	Left/Volume down	Left/Volume down
<C>	Right	Right/Volume up	Right/Volume up
<D>	Menu	Enter /Exit OSD menu	Enter /Exit OSD menu
<E>	Menu Down/channel down	Menu line Down	Menu Down/Channel Down
<F>	Menu Up/Channel up	Menu line Up	Menu Up/Channel up

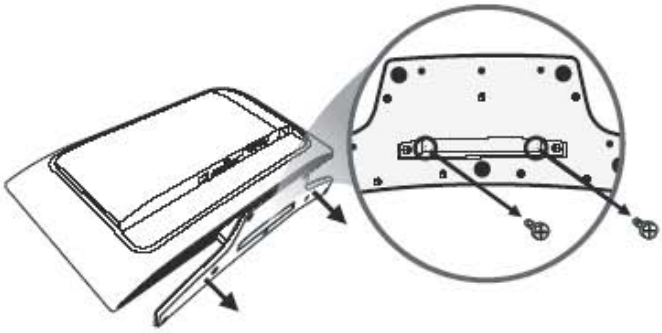
INSTALLING LCD TV ON THE WALL

Before you can install your LCD TV on the wall, you must first remove the base using the steps below:

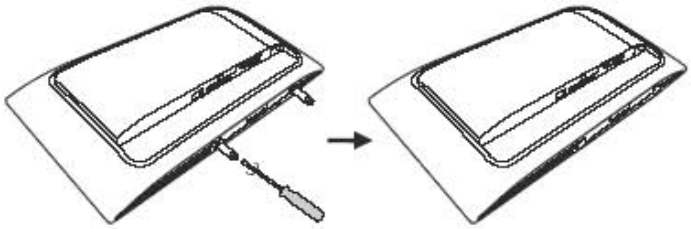
1 Place the set facing down on a flat surface with a protective sheet or cloth beneath the TV.



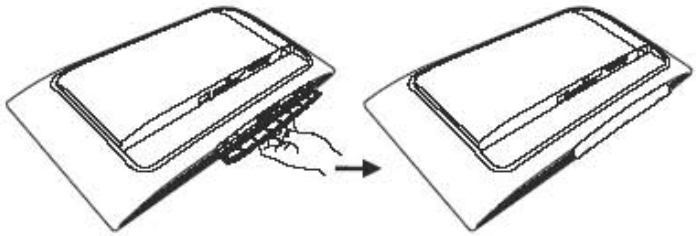
2 Locate 2 screws beneath the base as shown, remove the screws. Grasp the base and pull it out.



3 Remove the 2 metal pins.

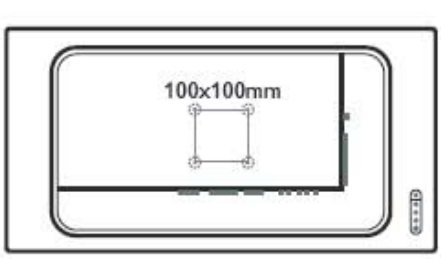


4 Attach the supplied base cover. Your LCD TV is now ready for wall mounting.

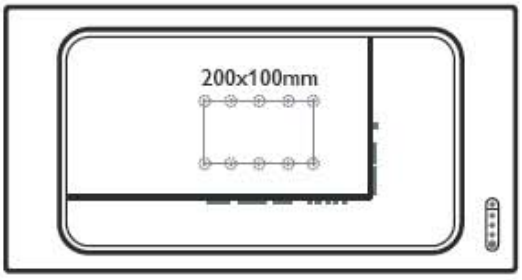


When installing the LCD TV on the wall, please consult a professional technician for proper installing.

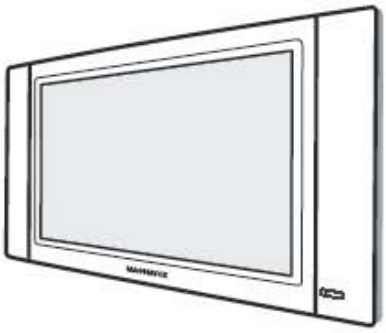
The manufacture accepts no liability for installations not performed by professional technician.



26"



32"



OSD Menu list

PC Signal control via front keyboard:

Picture

Smart picture :Normal, warm, cool
Brightness :Adjust backlight
Contrast : Adjust contrast.
Auto adjust : Yes/no for PC auto alignment.
Manual adjust : Phase/clock/Horizontal/vertical

Audio

Smart sound : Personal/News/Music/Theatre
Setting : Treble/base/balance adjustment
Stereo : Stereo/mono select
Virtual surround: Virtual surround on/off
AVL : Auto volume limit on/off

Feature

PIP : Size (small/medium/large/PBP);
Video (TV→Video1→Video2→Video3→ S-Video1→ S-Video2→Component→TV)
Audio (PIP/PC)
Display (to change PIP display position)

Source : PC→DVI→TV→Video1→Video2→Video3→ S-Video1→S-Video2→Component→HD→ PC

Install

Language : English/ Espanol / Francias
Factory reset : Recall Contrast, Brightness.

TV Signal control via front keyboard :

Picture

Smart picture : Personal/Movie/Sport/weak signal/multimedia/ Night
Brightness : Adjust brightness
Color : Adjust color saturation
Contrast : Adjust contrast.
Sharpness : Adjust sharpness
Tint : Adjust skin color

Audio

Smart sound : Personal/News/Music/Theatre
Setting : Treble/base/balance adjustment
Stereo : Stereo/mono select
Virtual surround: Virtual surround on/off
AVL : Auto volume limit on/off

Feature

Source : TV/Video1 / Video2 / Video3 / S-Video1/ S-Video2 / Component / HD / PC / DVI / TV.
Picture format : WIDESCREEN / 4:3/ ZOOM 16:9 / SUPER WIDE /
Auto lock : Lock program/change code/clear all/block option/movie rating/TV rating.
Close caption : caption mode (CC1;CC2;CC3;CC4;TXT1;TXT2; TXT3;TXT4;CC mute)
CC display (CC on/off)
Color Temp : Normal/warm/cool

Install

Language : English/ Espanol / Francias
Tuner mode : Antenna/cable/auto.
Auto program: Start
Channel edit : Channel(select channel)/Skipped(skip/ active).
Factory reset : Yes

Troubleshooting

No Power

1. Check the TV power cord. Disconnect the power cord from the power outlet for 10 seconds, then reinsert the plug into the outlet. Press POWER to turn on the TV again.
2. Make sure the outlet is not on a wall switch.
3. Make sure a fuse has not blown at the power outlet.

No Picture

1. Check the antenna or Cable TV connections. Connect the antenna or Cable TV signal securely to the TV's 75Ω jack on the rear of the TV.
2. Set TUNER MODE correctly. Details are on page 18.
3. Activate AUTO PROGRAM to find all available channels. Details are on page 19.
4. In case you hear only sound and don't see any picture in S-Video or Video (CVBS) mode. Please check if you have connected Video signal to S-Video or Video (CVBS) input. Only one of the two video inputs can be connected to sound. This means that the same sound can be heared in S-Video and Video (CVBS) mode.

No Sound

1. Press the VOL+ and VOL- buttons to adjust the volume.
2. Press the MUTE button on the remote control to cancel or restore the volume.
3. If you have connected other equipment to the TV (such as a VCR or DVD Player), make sure the audio cables are connected securely between the TV and the other equipment.
4. Check the SOUND settings. Details are on page 22 or 24.
5. In case you hear wrong sound in S-Video or Video (CVBS) mode. Please check if you have connected the right sound signal to AV in (S-Video or Video input). Only one of the two video inputs can be connected to sound, but both video signals can be connected. This means that only one of the two sound inputs can be heared in S-Video and Video (CVBS) mode.

Remote Control does not work.

1. Check the batteries. If necessary, replace them with two AAA heavy duty (zinc chloride) or alkaline batteries.
2. Clean the remote control as well as the remote control sensor on the front of the TV.
3. Check the TV power cord. Disconnect the power cord from the power outlet for 10 seconds, then reinsert the plug into the outlet. Press POWER to turn on the TV again.
4. Make sure the outlet is not on a wall switch.
5. Make sure a fuse has not blown at the power outlet.
6. Always point the remote control toward the front of the TV (toward the remote sensor).
7. Make sure that you use the supplied Magnavox Remote control, only the supplied Magnavox Remote control can be used with this LCD-TV set.

TV displays wrong channel or no channels.

1. Repeat channel selection.
2. Add the channel number(s) into the TV's memory. Use STORE. Details are on page 20.
3. Make sure TUNER MODE is set correctly. Details are on page 18.
   Then activate AUTO PROGRAM to set up all available channels. Details are on page 19.

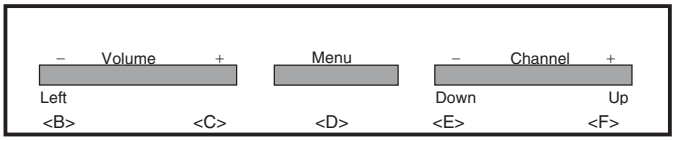
Poor Sound

1. Check if AVL (audio settings menu) is switched on [yes].
2. Select personal smart sound mode and optimize in the Audio onscreen menu the treble and bass settings.
3. Make sure that your external device, for instance VCR, DVD or other AV device has a good quality sound output.

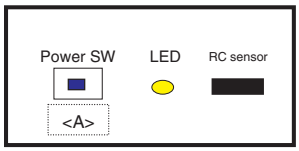
Noisy Picture

1. Select the Weak signal Smart Picture Mode, in this mode noise from bad quality video signals will be suppressed.

Top Control



Front Control



AGING MODE

No signal input ,power off -> on ,then Into the factory mode, , a full white pattern will be display on the screen as Fig.1&Fig.2 in stead of power saving mode. In other words, the power saving function will be disable in the factory mode.Supply one signal for leaving aging mode.

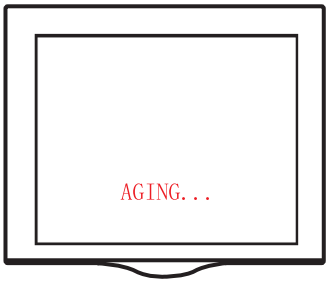


Fig.1

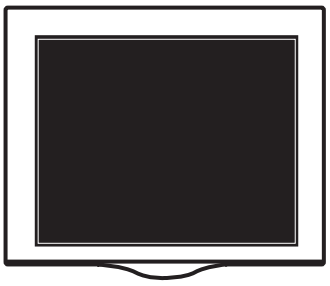


Fig.2

Access Factory Mode

1). Turn off monitor.

2). Press power "Power " button.Then quickly push " Volume -" and " Volume +",and hold this two buttons , then the screen comes out "Waiting For Automatic Adjustment ",then the screen will be black for one second untill comes out "Windows screen"] => then release this two buttons, then press "Menu" button, wait until the OSD menu with Characters "F1/FL1 NAFTA V0.91.1 041124ADJUST" (below OSD menu) come on the Screen of the monitor (see Fig. 3).

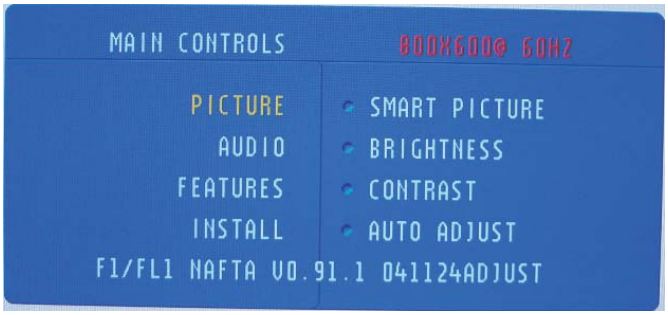


Fig.3

Scalar Gain R G B	Scalar Gain for Normal/Warm/Cool in PC mode.
Auto-Color	Adjust color from received signal (either in PC or HDTV mode).
ADC Offset R G B	Adjust AD 9883 for PC ADC offset.
ADC Gain R G B	Adjust AD 9883 for PC ADC gain.
PC Offset R G B	PC analog scalar offset.
711X SDTV Brightness	Adjust SA 7119 SDTV brightness.
711X SDTV SAT.	Adjust SA 7119 SDTV saturation.
711X SDTV Contrast	Adjust SA 7119 SDTV contrast.
711X SDTV TINT	Adjust SA 7119 SDTV tint (hue).
TV Shift H V	Adjust TV screen position horizontally/vertically.
HD Shift H V	Adjust HDTV screen position horizontally/vertically.
Show Lock Message	Show OSD lock message.
HDTV ADC Offset R G B	Adjust AD 9883 for HDTV ADC offset.
HDTV ADC Gain R G B	Adjust AD 9883 for HDTV ADC gain.
Video Scalar Gain R G B	Adjust scalar gain for Video mode.
Scalar Hue	Adjust scalar hue.

Fig.4

Circuit Description

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General Description

This LCD TV monitor using FL-1 platform. It can support PC analog signal (via 15 pin D-Sub input) and TV signal. It support PIP function that is TV picture on PC graphic or TV picture on DVI /HDCP. Its output resolution is up to 1366X768 75Hz for WXGA panel.

It can support DVI HDCP digital signal input and also support TV (RF) , CVBS/ RG B signal (from SCART1 I/O for Europe model) , CVBS / YC (from SCART2 I/O for Europe model) , CVBS/YPbPr (from Cinch I/O for Non-Europe model) , CVBS/YC (from Cinch and S terminal I/O for Non-Europe model) , and also have side I/O , support CVBS/YC and Headphone for User easy used .

And It can also support Y Pb Pr signal input (from Cinch I/O) for 480I, 480P, 720P, 1080i 60Hz and 576I, 576P, 720P, 1080I 50Hz HDTV format input.

Note : For Chinch I/O model two components input is provided one for 480I,480P and 576I, 576P the other for the 480I, 480P, 720P, 1080i 60Hz and 576I, 576P, 720P, 1080I 50Hz HDTV format input.

It also have PVR output function , support and monitor all the CVBS signal output with L/R sound.

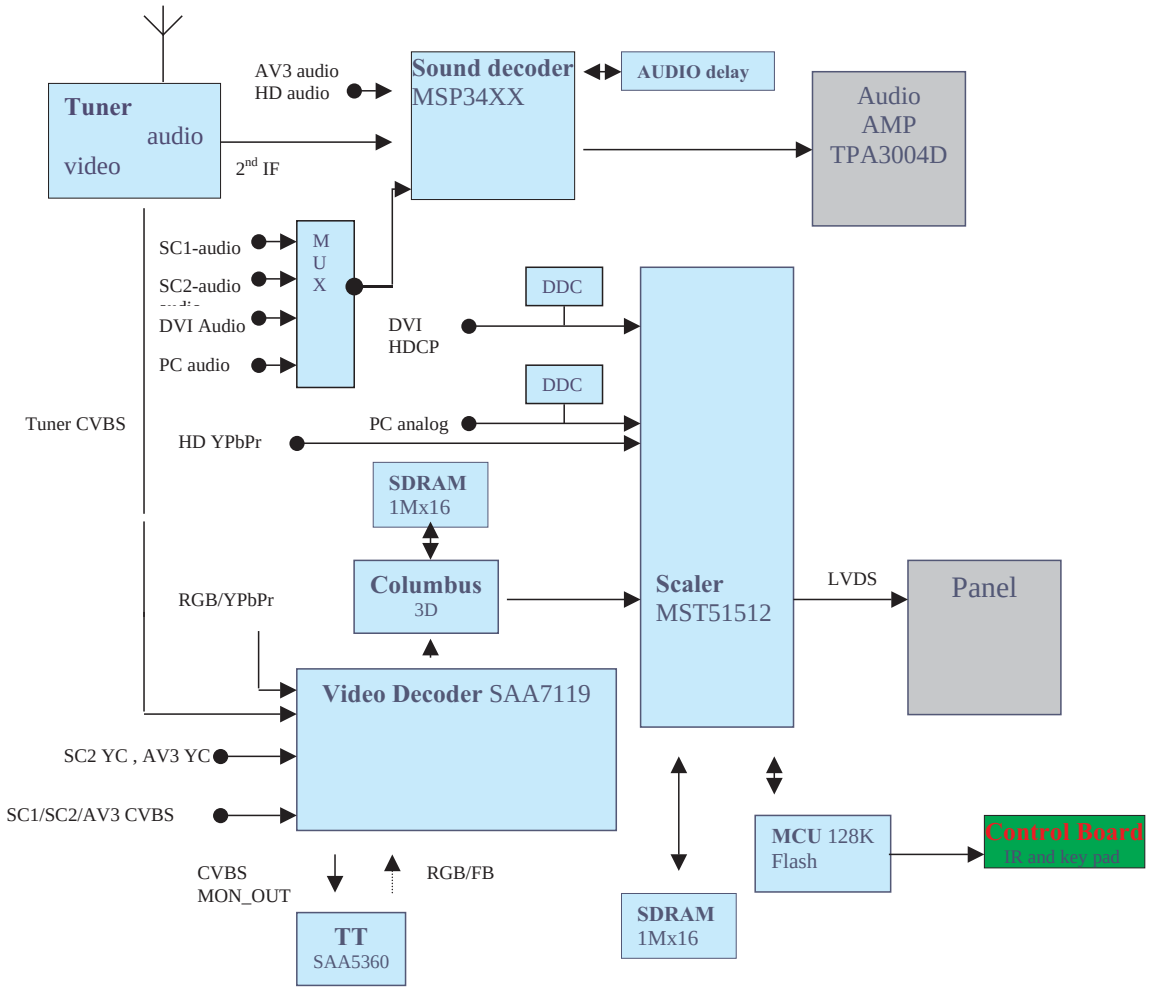
This LCD monitor TV use MST51512 as Scaler engine, which has embedded Analog D-sub, digital DVI decoder, scaling input signal for panel, OSD and simple 3D de-interlace. The extra SDRAM is to accomplish video frame rate conversion and PIP function.

The external CPU can be used for back light control, RC receiver, keypad input, I/O switch control , IIC communication and TV tuning control, MSP34XX sound decoder control, SAA7119 video decoder control , Columbus IC (3D- comb filter) control , and Audio AMP TPA3004D sound control .

Video decoder SAA7119 is used for TV video processing and convert it with CCIR 601/16bits or 656/8bits digital format and send to Columbus IC for 3D comb filter processing and noise reduction processing , after that then send to Scaler for de-interlace process.

One audio decoder MSP34XXG is used for TV sound processing, and output to Class D audio amplifier TPA3004D , then we can have 2 X10W audio output .

In Nafta model CC,V-chip data is decoded in SAA7119 and the scaler OSD display the CC information. The V-Chip is decode by SAA7119 and control via the MCU. In Europe model "Teletext display". Data decode is done by SAA5360, output RGB/FB is to video decoder input for text overlapping. In non-text model(Nafta. Etc.), this chip is Not used .



MM tuner is used to receive RF wave and output CVBS and 2nd IF signal. CVBS is to video decoder (SAA7119) for color process, 2nd IF is to sound decoder (MSP34x5) for audio process. The tuner control is via IIC ex. channel tuning. For different TV system, tuner and sound decoder have diversity as above.
Standard TV input (Tuner, S-video, CVBS, SCART) is processed by SAA7119, But YPbPr, SDTV and HDTV(480i, 576i, 480p,576p,720p,1080i), is done by scaler MST51512L/502L ADC. But the signal is still link to SAA7119 if PIP (video in graph) function is requested. Then all YPbPr signal processed by SAA7119 could be the PIP video source. (* May use down sampling in HD0)
MV protect is decoded by scaler.
Video decoder SAA7119, is in charge of color decoding, could support PAL, NTSC and SECAM world wide system. Compare to SAA7118, SAA7119 improve some picture quality, like V-chip CC I2C read-back, LTI, CTI, skin tone correction(see task A), also the HD0 is supported, so if F1 need PIP function then the The
Teltext function is for WE model, need a extra IC SAA5360. CVBS input, R/G/B, FB, out. Due to the SAA5360 request input signal 1Vrms and only one input channel, so the CVBS input source is from SAA7119 AOUT (CVBS out with 1Vrms). The R/G/B FB output into SAA7119 by AI22/AI32/AI42, and AI44 could overlay on any video source.
Sound decoder MSP3415/45 is responsible to sound decode of tuner 2nd IF. It has one 2nd IF, two selectable audio sources input. And one loudspeaker, one scart out. Due to the input port limitation, a MUX is added for AV source select(PC audio in is fix in SC1). If the post audio amplifier is gain fixed type then the volume adjust will be on MSP34x5.
Scaler MST51502L/51512L besides scaling function, PIP, 3D de-interlacer, color enhance are major feature.
Even de-interlacer is not so good but for static picture is enough to avoid image sticking.
In America market, to avoid patent issue, two SDRAM is necessary for graph frame buffer. But in else region one SDRAM is enough. Of course, if no PC mode in spec, then one SDRAM for all model.
The scaler structure limitation, the PIP source only from video port , 8 bits or 16 bits. The sub window /PIP size can enlarge to half screen.
MCU, NT68F632AL, is 128K flash ROM inside. Power control, RC5 I/O, and key function all done by here.
All chip communication is by IIC (SDA/SCL), and ISP is via DDCIIC, but if PC mode un-supported, then a reserved 6pin connector is for same application.

Mechanical Instruction

Front view

Fig.1

Back view

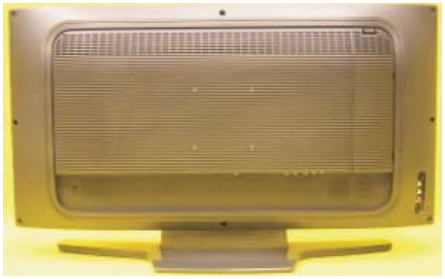


Fig.2

Step 1. Remove the stand.

Remove the three screws as Fig.3 and Fig.4

Fig.3

Fig.4

Step 2. Remove the Back cover as Fig.5~8.

a. Remove the seven screws on the sides and the other two screws as Fig.5
b. Use thin "I" type screwdriver to open 4 clicks on bottom side as Fig.6
c .Use thin "I" type screwdriver to open 3 clicks on right side as Fig.7
e. Use thin "I" type screwdriver to open 3 clicks on left side as Fig.8
f. Use thin "I" type screwdriver to open 4 clicks on top side as Fig.9
g. Remove the back cover as Fig.10 ,then remove the 10 screws as Fig.10,Fig.11,Fig.12

Fig.5

Fig.6

Fig.7

Fig.8

Fig.9

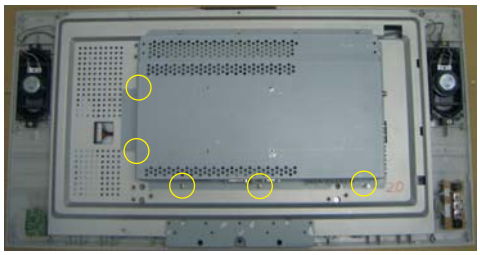


Fig. 10

Fig. 11

Fig. 12

Step 3. Remove the Scaler and Power board.

Remove the 19 screws and disconnect the 9 cables as Fig. 13 and Fig.14

Fig. 13

Fig. 14

Step 4. Disconnect the HD PCB, the Side AV PCB, the KEY PCB , the IR PCB,the Scaler PCB and power PCB as Fig.15

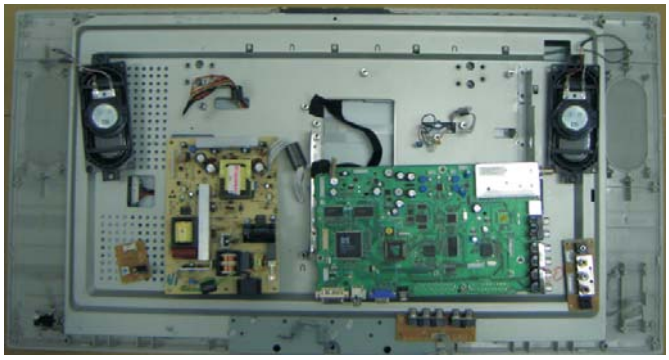


Fig. 15

Step 5 Remove the MAIN SHIELD ASSY as Fig.16~Fig.18
a. Remove the 16 screws on the back side as Fig.16
b. Remove the 2 screws on bottom side as Fig.17
c .Remove the 2 screws on top side as Fig.18
d. Disconnect the MAIN SHIELD ASSY as Fig.19

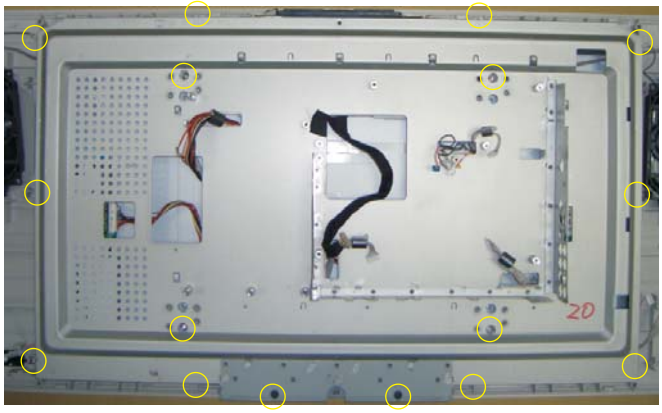


Fig. 16

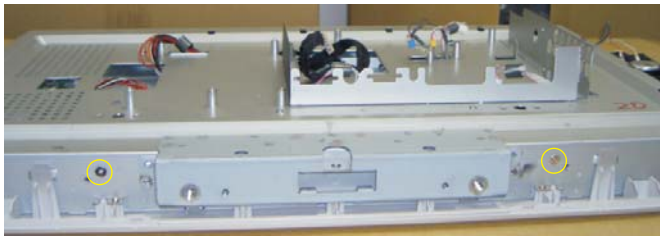


Fig. 17

Fig. 18

Fig. 19

****
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

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LCD Monitor Quality and Pixel Policy

The TFT monitor uses high-precision technology, manufactured according to HP standards, to guarantee trouble-free performance. Nevertheless, the display may have cosmetic imperfections that appear as small bright or dark spots.
This is common to all LCD displays used in products supplied by all vendors and is not specific to the HP LCD. These imperfections are caused by one or more defective pixels or sub-pixels.

1. A pixel consists of one red, one green, and one blue sub-pixel.

2. A defective whole pixel is always turned on (a bright spot on a dark background), or it is always off (a dark spot on a bright background). The first is the more visible of the two.3. A defective sub-pixel (dot defect) is less

2. visible than a defective whole pixeland is small and only visible on a specific background.The HP display does not have more than:

4. bright dots.

5. dark dots.

6. total bright and dark dots.

7. No more than two adjacent (less than 2.5 mm edge-to-edge) defective pixels. To locate defective pixels, the monitor should be viewed under normal operating conditions, in normal operating mode at a supported resolution and refresh rate, from a distance of approximately 50 cm (16 in.).HP expects that, over time, the industry will continue to improve its ability to produce LCDs with fewer cosmetic imperfections And HP will adjust guidelines as improvements are made.

Warning Message

1.Automatic adjustment (for factory only)

Press Volume+ and Volume- on front key at the same time (PC mode only). It adjusts PC image to the best and save the screen automatically.

2. OUT OF RANGE

If PC input timing is out of range, it shows " OUT OF RANGE " warning message on the center of the screen. range of horizontal frequency is between 14 - 63 KHz. The range of vertical frequency is between 45 -
The OSD won′ t timeout.

3.NO VIDEO INPUT

When PC input timing has either horizontal frequency or vertical frequency. Or neither has horizontal frequency nor vertical frequency. It shows on the center of the screen for 30 seconds, then it will enter sleep mode.

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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 NAFTA 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 measurement or applied with respect to ground, unless otherwise stated.

1.4 The test has to be done on a complete set including LCD panel in a room with temperature of 25 +/- 5 degree C.

1.5 All values mentioned in these 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 and output signal

2.1.1 PC Signal type

Analog Video : 15 pin D-sub ,0.7 Vp-p linear, positive polarity

Separate Sync.: TTL level, separate, positive or negative polarity

Audio signal : 3.5mm stereo mini-jack

Level : -Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
-Impedance > 10 k Ω.

Signal source: pattern generator format as attachment (table 1 to 5) Reference generator : CHROMA 2200 or 2250

2.1.2 TV Signal type

RF Signal : Aerial input / 10mV(80dBuV)

Video signal : Video(RCA jack, CVBS input) / 1Vpp (300mV-sync, 700mV-video.) S video input / 1VppY-signal, 300mVpp C-signal COMP Video(RCA jack , YPbPr input) / 1Vpp Y signal , 350mVpp Pb , Pr signal

DVI : Digital interface with 4 channels TMDS signal

Audio signal : Audio (1) R/L(RCA jack) for AV IN1 (share with Video and S-video1).
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 k Ω.

Audio (2) R/L(RCA jack) for AV IN2 (share with Video2 and S-video2).
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 k Ω.

Audio (3) R/L (RCA jack)for AV IN3 (share with Video3 and Comp video).
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 k Ω.

Audio (4) R/L(RCA jack) for DVI IN.
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.

2.1.3 PVR output (CVBS output):

Video: CVBS output 1Vpp / Impedance : 75Ω.

Audio: R/L output (from CVBS)

Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance < 1 kΩ.

2.1.4 Headphone

Audio: R/L output -10mW at 32Ω.
3.5mm stereo jack with switch
Impedance is between 8 and 600Ω.

2.2 PC Input signal mode

2.2.1 PRESET VIDEO RESOLUTION

The analogue color LCD monitor must be capable of displaying standard resolutions within the vertical frequency range of 58 – 63 Hz, and horizontal scan range of 30 - 50 KHz . Use the CHROMA-2250 generator as the standard signal timing source.

Dot rate (MHz)		H.freq (KHz)	Mode	Resolution	V.freq (Hz)	Remark
1	25.175	31.469	IBM VGA	640*480	59.940	
2	36.000	35.156	VESA	800*600	56.250	
3	40.000	37.879	VESA	800*600	60.317	
4	65.000	48.363	VESA	1024*768	60.004	
5	74.500	44.772	WXGA	1280*720	59.855	CVT
5	79.500	47.776	WXGA	1280*768	59.87	CVT

Resolution recommend on 1280 X 720 @ 60Hz

2.3 TV input signal Channel and pattern for NAFTA model (Table1)

Signal Distribution Table (NTSC)

CH	Frequency Carriers		TV System	Pattern
	Video	Sound		
A 03	61.25MHz	65.75MHz	NTSC M	Color Circle
A 06	83.25MHz	87.75MHz	NTSC M	Red Raster
A 09	187.25MHz	191.75MHz	NTSC M	Circle Pattern
A 11	199.25MHz	203.75MHz	NTSC M	Cross Hatch
A 13	211.25MHz	215.75MHz	NTSC M	Two White Window
A 52	699.25MHz	703.75MHz	NTSC M	Color Bar
A 69	801.25MHz	805.75MHz	NTSC M	100% White
C 70	499.25MHz	503.75MHz	NTSC M	Checkerboard

Table 1

2.4 HD input mode

2.4.1 HD detail timing

(For Quantune Data setting with Q801GD or 802G in YpbPr mode)

Item	1920X1080i 60Hz	1280X720P 60Hz	1920X1080i50Hz	1280X720P50Hz
Pixel rate	74.25MHz (13.468 ns)	74.25MHz (13.468 ns)	74.25MHz (13.468ns)	74.25MHz (13.468 ns)
Horizontal Frequency	33.75KHz	45KHz	28.125KHz	37.5KHz
Active	1920 pixels (25.859 us)	1280 pixels (17.239 us)	1920 pixels (25.859 us)	1280 pixels (17.239 us)
Blank	280 pixels (3.771 us)	370 pixels (4.983 us)	720 pixels (9.697 us)	700 pixels (9.428 us)
Period	2200 pixels (29.630 us)	1650 pixels (22.222 us)	2640 pixels (35.556 us)	1980 pixels (26.667 us)
Pulse delay	44 pixels (0.593 us)	70 pixels (0.943 us)	484 pixels (6.519 us)	400 pixels (5.387 us)
Pulse width	44 pixels (0.593 us)	40 pixels (0.539 us)	44 pixels (0.593 us)	40 pixels (0.539 us)
Vertical Frequency	60 Hz	60 Hz	50 Hz	50 Hz
Active	1080 lines (32.000 ms)	720 lines (16.0 ms)	1080 lines (38.4 ms)	720 lines (19.2 ms)
Blank	45 lines (1.333 ms)	30 lines (0.667 ms)	45 lines (1.6 ms)	30 lines (0.8 ms)
Period	1125 lines (33.333 ms)	750 lines (16.667 ms)	1125 lines (40 ms)	750 lines (20 ms)
Pulse delay	2 lines (0.059 ms)	5 lines (0.111 ms)	2 lines (0.071 ms)	5 lines (0.133 ms)
Pulse width	5 lines (0.148 ms)	5 lines (0.111 ms)	5 lines (0.178 ms)	5 lines (0.133 ms)
EQ before	0 line	0 line	0 line	0 line
EQ after	1 line	0 line	1 line	0 line
Scan	Interlace	Progressive	Interlace	Progressive
Sync type	ACS	ACS	ACS	ACS
Video kind	Analog YPbPr (ITU-R BT.709)	Analog YPbPr (ITU-R BT.709)	Analog YPbPr (ITU-R BT.709)	Analog YPbPr (ITU-R BT.709)

Item	720X576P 50Hz	720X480P 60Hz	720X576i 50Hz	720X480i 60Hz
Pixel rate	27 MHz (37.037 ns)	27.027MHz (37.000 ns)	13.5MHz (74.074 ns)	13.5MHz (74.074 ns)
Horizontal Frequency	31.25 KHz	31.5KHz	15.625KHz	15.734KHz
Active	720 pixels (26.667 us)	720 pixels (26.640 us)	720 pixels (53.333 us)	720 pixels (53.333 us)
Blank	144 pixels (5.333 us)	138 pixels (5.106 us)	144 pixels (10.667 us)	138 pixels (10.222 us)
Period	864 pixels (32.000 us)	858 pixels (31.746 us)	864 pixels (64.00 us)	858 pixels (63.556 us)
Pulse delay	12 pixels (0.444 us)	16 pixels (0.592 us)	12 pixels (0.889 us)	19 pixels (1.407 us)
Pulse width	64 pixels (2.370 us)	62 pixels (2.294 us)	63 pixels (4.667 us)	62 pixels (4.593 us)
Vertical Frequency	50 Hz	60 Hz	50 Hz	59.94 Hz
Active	576 lines (18.432 ms)	480 lines (15.238 ms)	576 lines (36.864 ms)	480 lines (30.507 ms)
Blank	49 lines (1.568 ms)	45 lines (1.429 ms)	49 lines (3.136 ms)	45 lines (2.860 ms)
Period	625 lines (20.000 ms)	525 lines (16.667 ms)	625 lines (40 ms)	525 lines (33.367 ms)
Pulse delay	5 lines (0.160 ms)	9 lines (0.287 ms)	2 lines (0.128 ms)	4 lines (0.254 ms)
Pulse width	5 lines (0.160 ms)	6 lines (0.190 ms)	3 lines (0.192 ms)	3 lines (0.191 ms)
EQ before	0 line	0 line	2 line	3 line
EQ after	0 line	0 line	2 line	3 line
Scan	Progressive	Progressive	Interlace	Interlace
Sync type	ACS	ACS	ACS	ACS
Video kind	Analog YPbPr (SMPTE RP177)	Analog YPbPr (SMPTE RP177)	Analog YPbPr (SMPTE RP177)	Analog YPbPr (SMPTE RP177)

Table 2

3. Power supply

3.1 Setup the AC I/P at 264 VAC and 90VAC , and power board provide two DC Output

1. The DC output voltage is 24V ± 1V DC for Inverter and Scaler board Measured point between pin3(+24V) and pin6(GND) at item 1001 of scaler board
2. The DC output voltage is 16V ± 1 V DC for Scaler and Audio board Measured point between pin1(+16V) and pin6(GND) at item 1001 of scaler board

3.2 Any adjustment is not needed.

4. TV Mode display adjust

4.1 White balance adjustment (B)

4.1.1 General set-up :

Equipment Requirements: Color analyzer.

Input requirements:

Input Signal Type : RF signal

1. Set to NTSC system, frequency=187.25MHZ (for NAFTA model), with white pattern of 100%

2. Select Smart picture to Personal mode and check the x, y data.
Input Signal Strength : 10mV (80 dBuV) terminal voltage.
Input Injection Point : TV Tuner input
Alignment method:
Initial Set-up :
1.Set TV(7119) Brightness=142; Saturate =64, Contrast =68 in Factory mode(can be fine tuned).
2. Set Smart picture as " Personal "
3. Apply " 100% Full White " pattern by TV pattern generator.

Alignment : Adjust the VIDEO SCALER GAIN RG B in Factory Mode " NORMAL " . (See Fig 1.) [Enter factory menu : press VOL+ and VOL- keys together around six seconds]

1. Check (X, Y) co-ordinates as below:

Picture Mode	x	y
Normal (Original)	0.289 ± 0.005	0.304 ± 0.005

Table 3: Reading with Minolta CA-110.

2. Check the gray pattern should be distinguish and color bar is correct

4.1.2 Set TV Color temperature in Factory mode as " WARM " , and " COOL " The VIDEO SCALER GAIN R\G\B value will be followed below

	Normal/ the R′ \G′ \B′ are gain after alignment.	WARM	COOL
R gain	R′	R′	R′ -10
G gain	G′	G′ -10	G′ -10
B gain	B′	B′ -10	B′

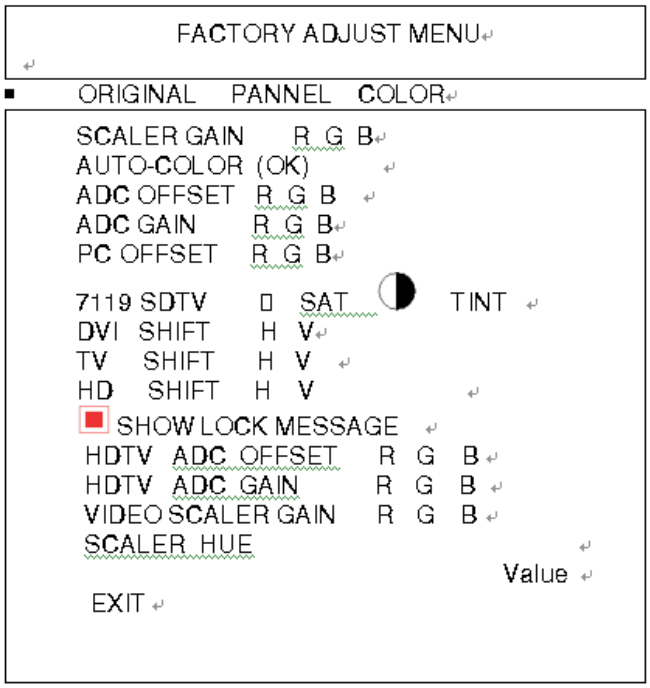


Fig-1

5. PC mode Display Adjustment

5.1 Display quality adjustment

Use timing mode as describe in 2.2, and use the POPO (pixel on pixel off) pattern to adjust the clock until no stripe and adjust the phase until clear picture.

Check all pre-set 6 modes.

5.2 WHITE-D adjustment (B)

5.2.1 At factory mode apply 1280X720 @60Hz mode with 32 gray pattern.
Set smart picture at " Normal " , and Brightness to 50% and Contrast to 50%.
Press AUTO-COLOR function for auto ADC offset and gain setup.

5.2.2 Apply full white pattern Set SCALER GAIN R G B = VIDEO SCALER GAIN R G B.

1. Check (X, Y) co-ordinates as below :

	Normal/ (8500°K)		
x (center)	0.289 ± 0.015		
y (center)	0.304 ± 0.015		

Table 4: Reading with Minolta CA-110.

2. Check the gray level color poor & noise condition and chromaticity

Note: 1. Use Minolta CA-110 for color coordinates and luminance check.
2. Luminance> 400 cd/m^2 in the center of the screen at Original (NORAML)color and PC Brightness control; Contrast control at 100%

5.2.3 Set Smart picture as " WARM " , and " COOL "
The SCALER GAIN R\G\B value will be followed below

	Normal/ the R′ \G′ \B′ are gain after alignment.	WARM	COOL
R gain	R′	R′	R′ -10
G gain	G′	G′ -10	G′ -10
B gain	B′	B′ -10	B′

5.3 Check the digital interface cable (B)
Check the 64 gray level color poor & noise condition.

6. HDTV Mode display adjust

6.1 White balance adjustment (B)
General set-up:
Equipment : Quantum Data Pattern Generator 801GD or 802G.
Apply 1080i, RGBW(177=Infocus2) gray pattern.

Or FLUKE 54200, apply 576i, DIGITAL SCAN/DIGI_ADC1 pattern.

Alignment method:
Initial Set-up: 1.Set Smart picture as " Personal " , Brightness=48, Color=60, Contrast=65)
2.Press AUTO-COLOR process.
Alignments : Set HD VIDEO SCALER GAIN R\G\B= TV " Normal " VIDEO SCALER GAIN R G B.
1. Apply " 100% Full White " pattern by Quantum DATA 802G pattern generator.
Check (X, Y) co-ordinates as below:

Picture Mode	x	y
Personal	0.289 ± 0.015	0.304 ± 0.015

If chromaticity (X, Y) co-ordinates is out of specification, re-alignment Video scalar R/G/B gain from 127/127/127.
2. Check the gray pattern should be distinguish and color bar is correct

7. Preset DVI HDCP Key

7.1 Download HDCP Key
The 284 bytes HDCP key should be download to the TV set via IF cable using ATE at factory Alignment tools

7.2 DVI Video HDCP Key Test

7.2.1Use pattern generator

Equipment: Quantum 802R or 802BT or equivalent equipments.

Pattern : Standard HDCP Pattern (It's color bar)

Timing : 720 X 480P 60Hz
720 X 576P 50Hz
1280X 720P 50Hz
1280X 720P 60Hz
1920X1080i 50Hz
1920X1080i 60Hz

Result : The PASS information should be shown on the screen.

7.2.2 Use DVD Player:

Equipment: 1.Pioneer (model: DV-S969AVi) or equivalent equipments.
2.DVD disk with " Macro Vision " protection.

Result : The picture should be shown Normally.

8. Preset EEPROM data

EEPROM data has to be preset data according following table.

8.1 Factory mode preset.

Function		Preset value	
SCALER GAIN		127 127 127	
ADC Offset R/G/B		127 127 127	
ADC Gain R/G/B		127 127 127	
PC OFFset R/G/B		127 127 127	
7119 ☼ brightness		#1	
7119 Saturation		#1	
7119 ◑ contrast		#1	
7119 TINT		#1	
DVI SHIFT H		#2	#2
DVI SHIFT V		#2	#2
		NTSC	PAL
TV shift H	Regular	175	195
TV shift V		15	1
HD SHIFT H		#3	#3
HD SHIFT V		#3	#3
HD ADC OFFset R G B		127 127 127	
HD ADC GAIN R G B		127 127 127	
Video Scaler Gain		127 127 127	
Scaler Hue		50	

#1

PERSONAL/ NORMAL	☼	SAT.	◑	TINT
TV	139	64	60	24
AV	142	64	64	24
S-Video	142	64	64	24
Component	143	70	62	--

#2

	480 P	576 P	720P/ 50Hz	720P/ 60Hz	1080i/ 50Hz	1080i/ 60Hz
DVI shift H	22	22	96	55	103	48
DVI shift V	44	50	40	40	60	60

#3

	480i	480 P	576i	576 P	720 P/50 Hz	720 P/60 Hz	1080 i/50 Hz	1080 i/60 Hz
HD shift H	155	154	167	167	108	146	79	79
HD shift V	39	40	49	53	39	39	58	58

8.2 Smart picture & Smart sound:
8.2.1 Final TV mode out box setting.
Smart Picture : Sport Color Temp in Factory mode : COOL
Smart Sound : Personal
SOUND VOLUME : 10
BASE : 55
TREBLE : 55
Balance :0
Virtual SURROUND : OFF
AVL : NO

Smart Picture

PERSONAL	BRIGHTNESS	45
	COLOR	50
	CONTRAST	65
	SHARPNESS	38
	TINT	50
MOVIES	BRIGHTNESS	59
	COLOR	60
	CONTRAST	51
	SHARPNESS	36
	TINT	50
SPORTS	BRIGHTNESS	48
	COLOR	65
	CONTRAST	75
	SHARPNESS	46
	TINT	50
WEAK SIGNAL	BRIGHTNESS	52
	COLOR	60
	CONTRAST	51
	SHARPNESS	46
	TINT	50
MULTIMEDIA	BRIGHTNESS	52
	COLOR	60
	CONTRAST	68
	SHARPNESS	33
	TINT	50
NIGHT	BRIGHTNESS	45
	COLOR	50
	CONTRAST	65
	SHARPNESS	38
	TINT	50

Go to cover page

Smart Sound
EQ Setting

PERSONAL	EQ BAND1 120Hz	+25
	EQ BAND2 500Hz	+25
	EQ BAND3 1.5KHz	+25
	EQ BAND4 5KHz	+25
	EQ BAND5 10KHz	+25
NEWS	EQ BAND1 120Hz	0
	EQ BAND2 500Hz	0
	EQ BAND3 1.5KHz	+20
	EQ BAND4 5KHz	+30
	EQ BAND5 10KHz	+40
MUSIC	EQ BAND1 120Hz	+50
	EQ BAND2 500Hz	+35
	EQ BAND3 1.5KHz	+15
	EQ BAND4 5KHz	+30
	EQ BAND5 10KHz	+45
THEATRE	EQ BAND1 120Hz	+50
	EQ BAND2 500Hz	+35
	EQ BAND3 1.5KHz	-5
	EQ BAND4 5KHz	+20
	EQ BAND5 10KHz	+40

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, Digital 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 (12NC: 3138 106 10396):
   inclusion : a. Alignment box x1 (Fig. 2)

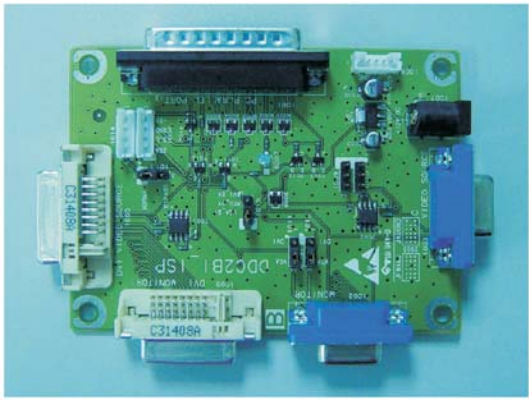


Fig. 2

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

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.

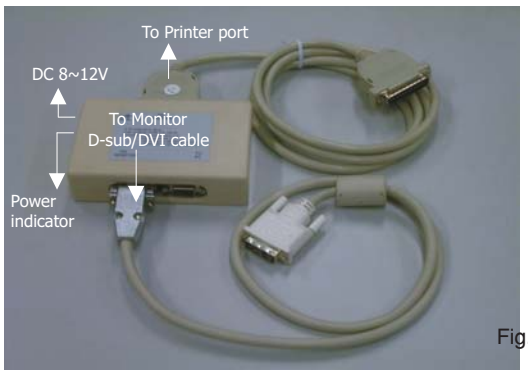
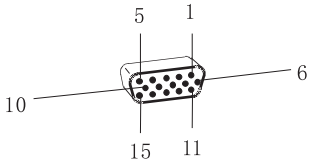


Fig. 3

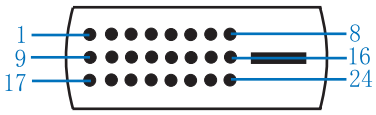
Pin assignment

A. 15-pin D-Sub Connector



PIN No.	SIGNAL
1	Red video input
2	Green video input / sync on green
3	Blue video input
4	GND
5	GND - Cable detect
6	Red video GND
7	Green video GND
8	Blue video ND
9	DDC +3.3V or +5V
10	Logic GND
11	GND
12	Serial data line (SDA)
13	H-sync / H+V
14	V-sync
15	Data clock line (SCL)

B. Input DVI -D Connector pin



Pin No.	Description
1	T.M.D.S. data2-
2	T.M.D.S. data2+
3	T.M.D.S. data2 shield
4	No Connect
5	No Connect
6	DDC clock
7	DDC data
8	No Connect
9	T.M.D.S. data1-
10	T.M.D.S. data1+
11	T.M.D.S. data1 shield
12	No Connect
13	No Connect
14	+5V Power
15	Ground (for +5V) - Cable detect
16	Hot plug detect
17	T.M.D.S. data0-
18	T.M.D.S. data0+
19	T.M.D.S. data0 shield
20	No Connect
21	No Connect
22	T.M.D.S clock shield
23	T.M.D.S. clock+
24	T.M.D.S. clock-

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Configuration and procedure

There is no Hardware DDC (DDC IC) anymore. Main EEPROM stores all factory settings and DDC data (EDID code) which is also called Software DDC. The following section describes the connection and procedure for Software DDC application. The main EEPROM can be re-programmed by enabling '' 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 .
Step 2: Connecting printer cable and D-Sub cable of monitor as Fig. 4

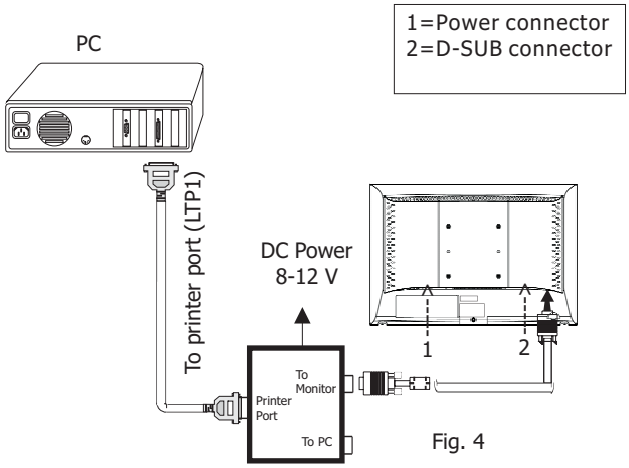


Fig. 4

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.

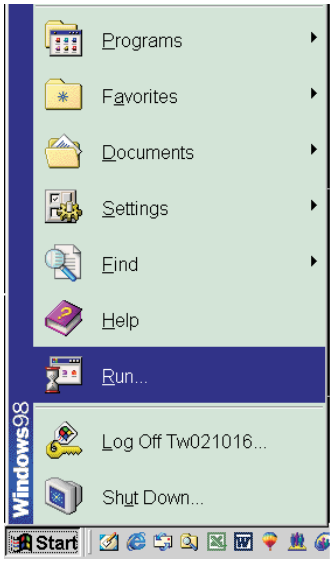


Fig. 5

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).

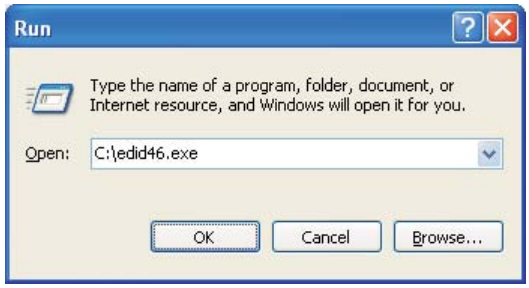


Fig. 6

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

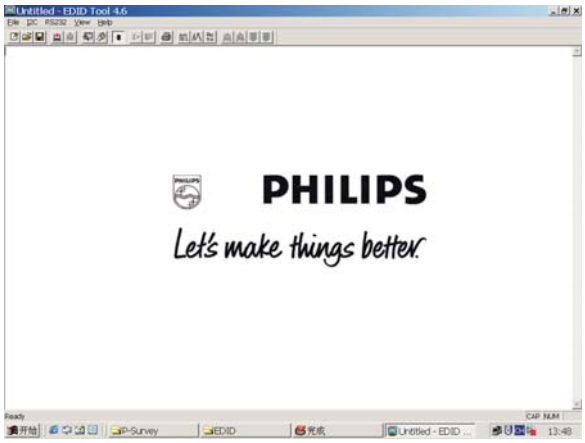


Fig. 7

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.

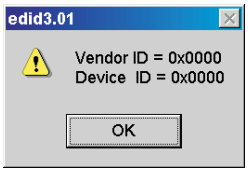


Fig. 8

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.

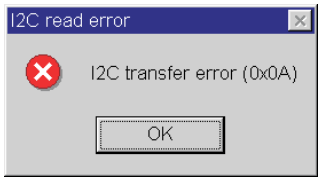


Fig. 9

Re-programming Analog DDC IC

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

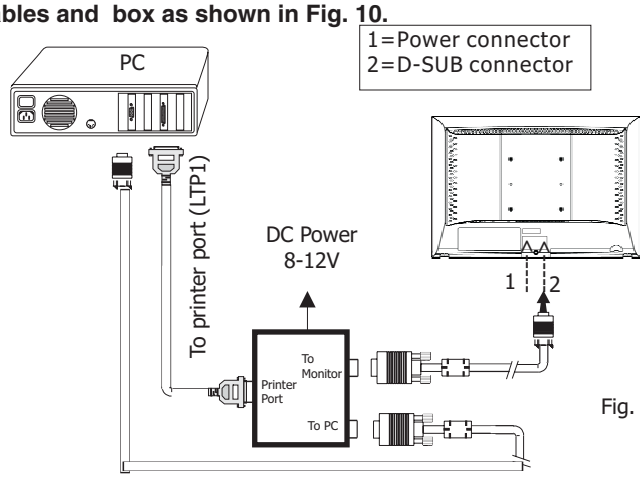


Fig. 10

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. 11.

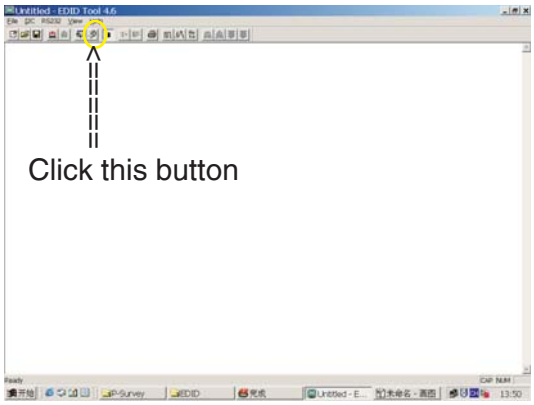


Fig. 11

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

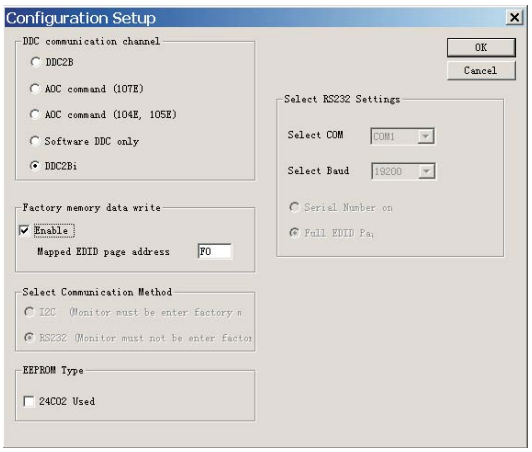


Fig. 12

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.

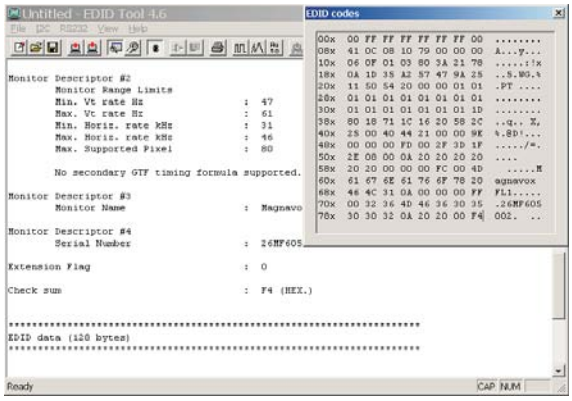


Fig. 13

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

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

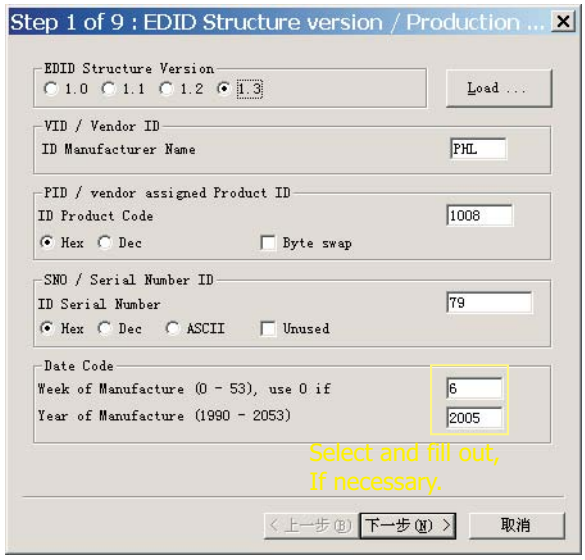


Fig. 14

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

1. Click Next , bring up Fig. 15.

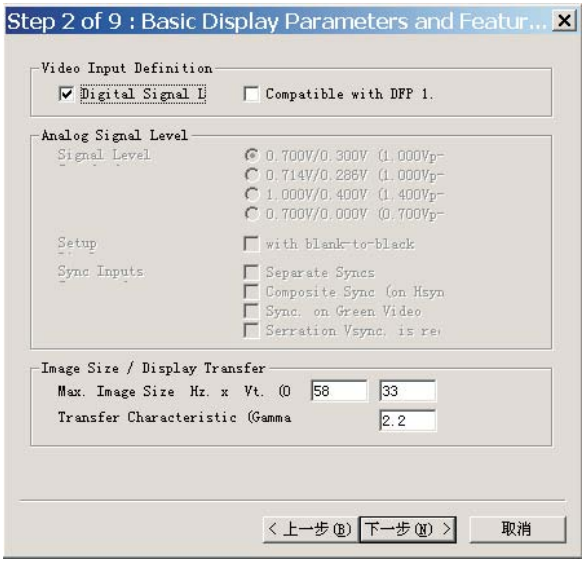


Fig. 15

Go to cover page

2. Click Next , bring up Fig.16.

Fig. 16

3. Click Next , bring up Fig.17.

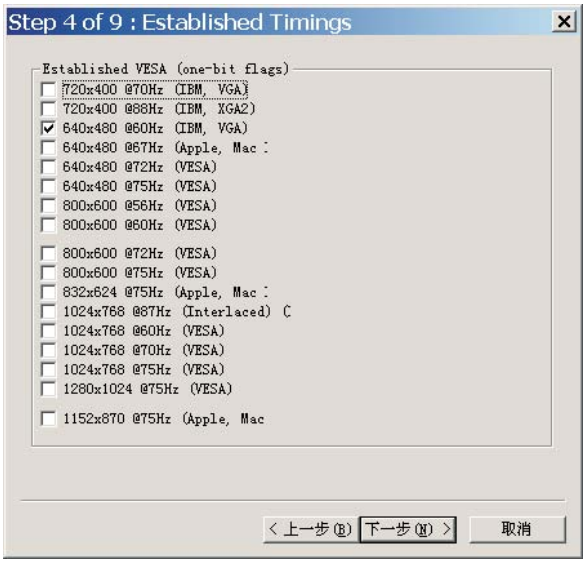


Fig. 17

4. Click Next , bring up Fig.18.

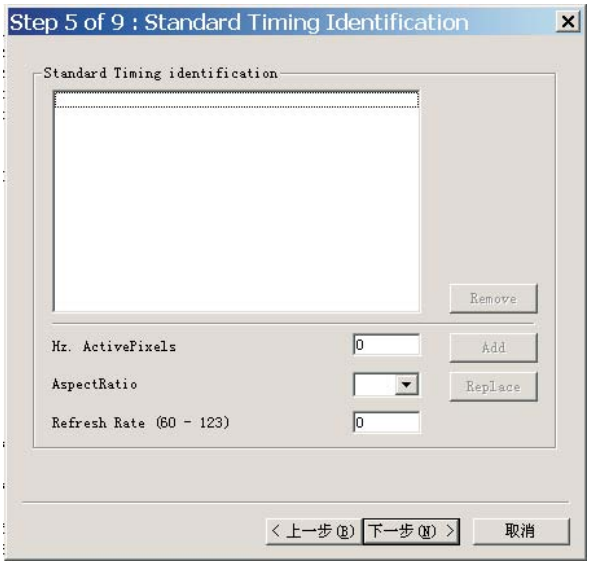


Fig. 18

5. Click Next , bring up Fig.19.

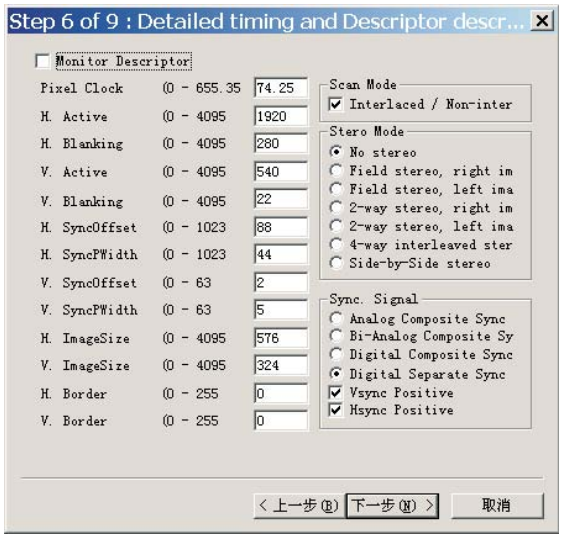


Fig. 19

6. Click Next , bring up Fig. 20.
In this step, please confirm the Descriptor Data Type is Monitor Range Limits, and all the items are same as below.

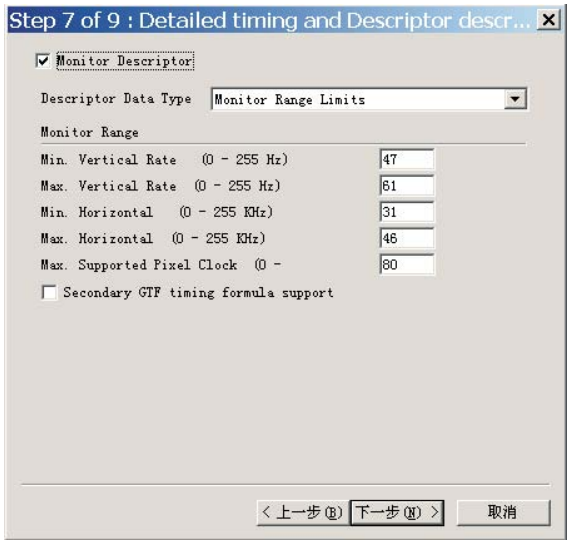


Fig. 20

7. Click Next , bring up Fig. 21.

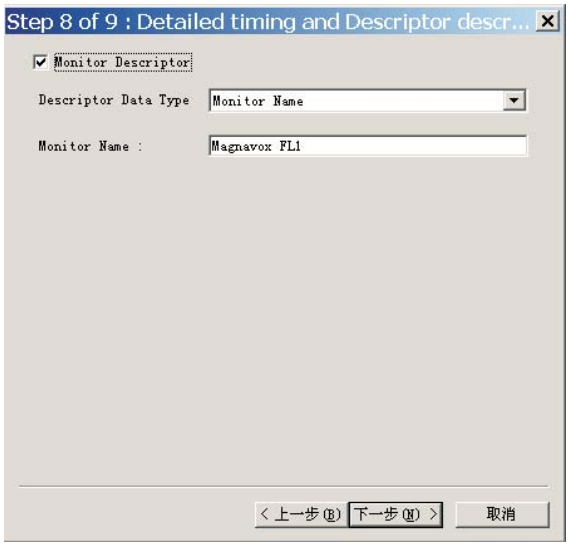


Fig. 21

8. Click Next , bring up Fig. 22.
   - Click Finish to exit the Step window.
   - Serial number can be filled up at this moment (for example, 26MF605002).

NOTE: You must modify the Serial NO. In step 9, otherwise the Serial NO. In OSD Couldn't be modified correctly.

Fig. 22

Step 5: Write DDC data

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

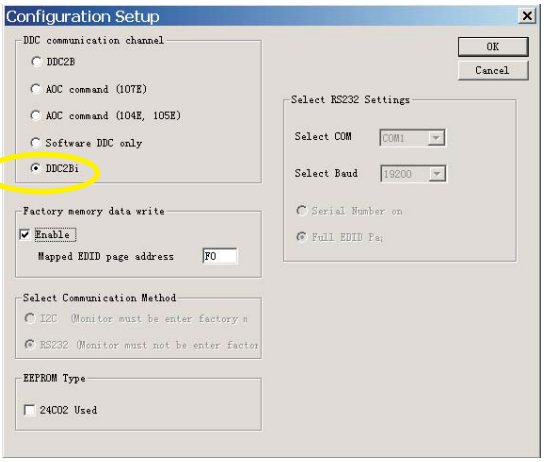


Fig. 23

2. Access Factory Mode

1). Turn off monitor.

2). Press power "Power " button.Then quickly push " Volume -" and " Volume +",and hold this two buttons,then the screen comes out "Waiting For Automatic Adjustment ",then the screen will be black for one second ,untill comes out "Windows screen"] => then release this two buttons, then press "Menu" button, wait until the OSD menu with Characters "F1/FL1 NAFTA V0.91.1 041124ADJUST" (below OSD menu) come on the Screen of the monitor (see Fig. 24).

Fig. 24

3) Push "Menu" to exit OSD menu.

4). Click (Write EDID) icon from the tool bar to write DDC data. then the screen will be black for 2-3 seconds,then the screen recovers, and "ATTENTION NO VIDEO INPUT"will come on the screen of the monitor,wait for 20-30 seconds ,DDC data will be finished Writing.

Step 6: 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. 25.
   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 ar completely correct, it can be saved as .ddc flie to re-load it into DDC IC for DDC Data application.

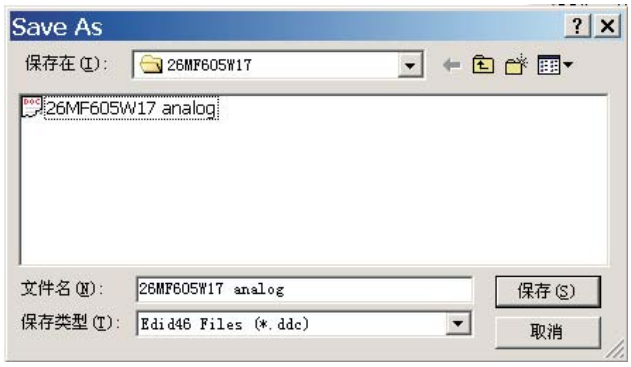


Fig. 25

2. Click Save.

Step 7: Exit DDC program

Pull down the File menu and select Exit as shown in Fig. 26.

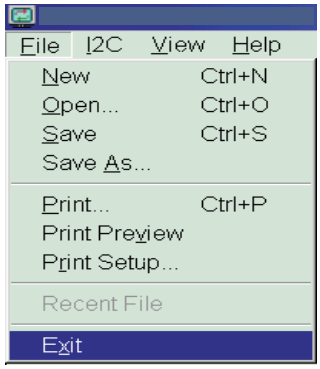


Fig. 26

Step 8: Turn off the monitor, exit the factory mode.

Re-programming Digital DDC IC

Step 1: After initialize alignment box, connecting all cables and box as shown in Fig. 27.

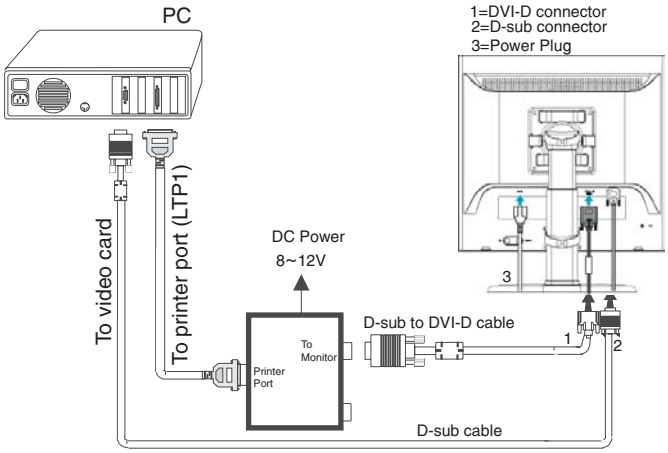


Fig. 27

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. 28.

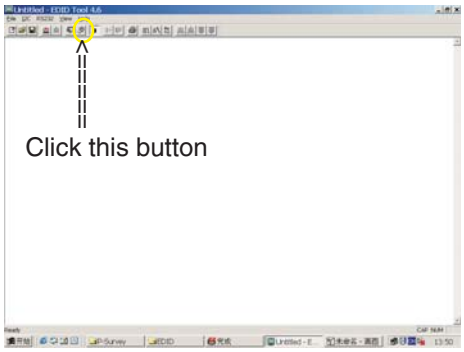


Fig. 28

2. Select the DDC2Bi as the communication channel. As shown in Fig. 29.

Fig. 29

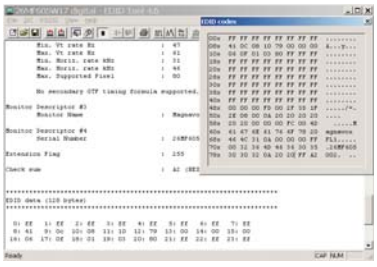


Fig. 30

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. 30.

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

Click  (new function) icon from the tool bar, bring up Step 1 of 9 as shown in Fig. 31 .
EDID46 DDC application provides the function selection and text change (select & fill out) from Step 1 to Step 9.

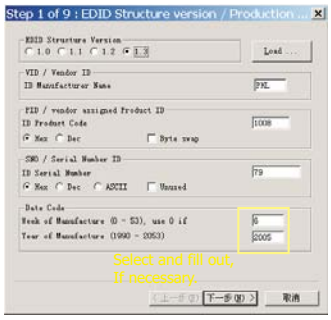


Fig. 31

Fig. 32

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

1. Click Next , bring up Fig. 32.
2. Click Next , bring up Fig. 33.
3. Click Next , bring up Fig. 34.

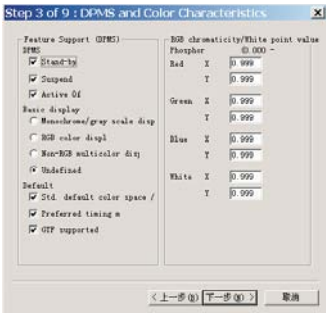


Fig. 33

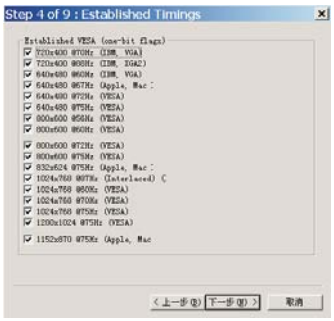


Fig. 34

4. Click Next , bring up Fig. 35.
5. Click Next , bring up Fig. 36.

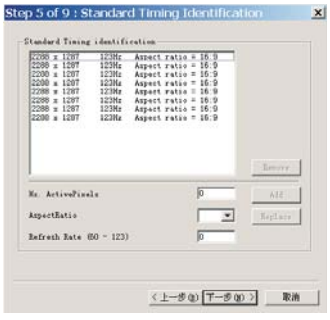


Fig. 35

Fig. 36

6. Click Next , bring up Fig. 37.
In this step, please confirm the Descriptor Data Type is Monitor Range Limits, and all the items are same as below.

7. Click Next , bring up Fig. 38.

Fig. 37

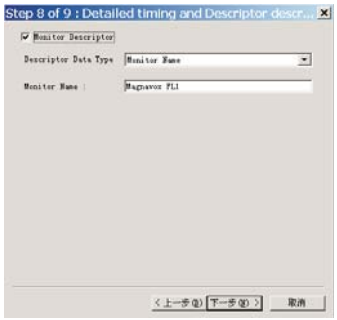


Fig. 38

8. Click Next , bring up Fig. 39.
- Click Finish to exit the Step window.
- Serial number can be filled up at this moment (for example, 26MF605002).

NOTE: You must modify the Serial NO. In step 9, otherwise the Serial NO. In OSD Couldn't be modified correctly.

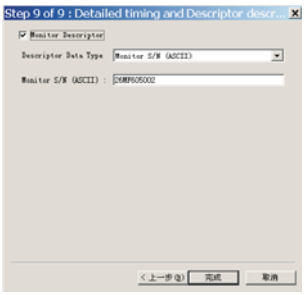


Fig. 39

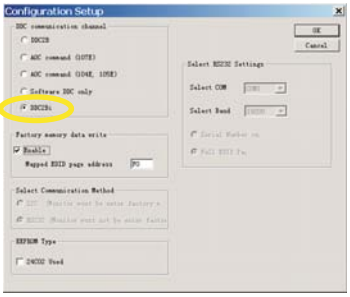


Fig. 40

Step 5: Write DDC data

1. Configuration should be as Fig. 40. And press OK.

2. Access Factory Mode

1). Turn off monitor.

2). Press power "Power " button.Then quickly push " Volume -" and " Volume +",and hold this two buttons,then the screen comes out "Waiting For Automatic Adjustment ",then the screen will be black for one second ,untill comes out "Windows screen"] => then release this two buttons, then press "Menu" button, wait until the OSD menu with Characters "F1/FL1 NAFTA V0.91.1 041124ADJUST" (below OSD menu) come on the Screen of the monitor (see Fig. 41).

Fig. 41

3) Push "Menu" to exit OSD menu.

3. Click (Write EDID) icon from the tool bar to write DDC data. Then wait for 20-30 seconds ,DDC data will be finished Writing.

Step 6: 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. 42.

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 ar completely correct, it can be saved as *.ddc flie to re-load it into DDC IC for DDC Data application.

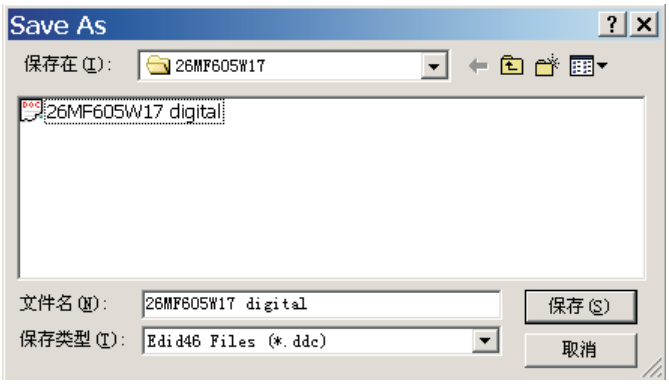


Fig.42

2. Click Save.

Step 7: Exit DDC program

Pull down the File menu and select Exit as shown in Fig. 43.

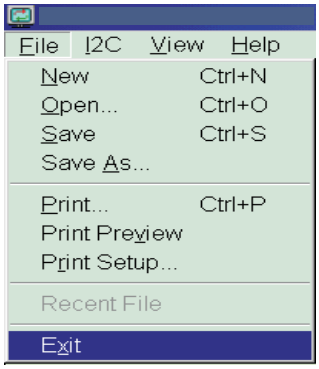


Fig. 43

Step 8: Turn off the monitor, exit the factory mode.

Serial Number Definition

BZ1A0525000001

- Serial number (6 digits)
- Production year/week code
- Service version change code
- BOM (bill of Material) code
- Sit code (Production center) according TY CODE (TY---CHUNGLI, HD--HUNGARY,BZ--SUZHOU, DS--DONG GUAN)

BOM Code:

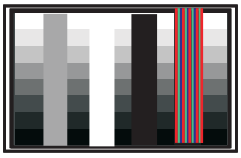
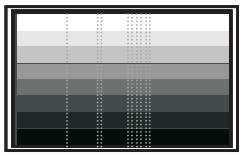
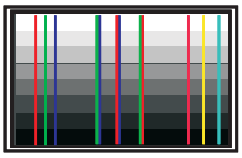
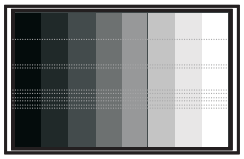
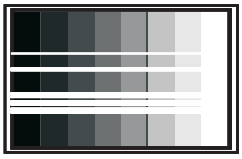
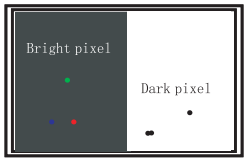
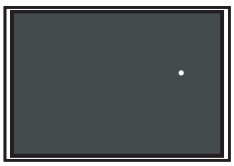
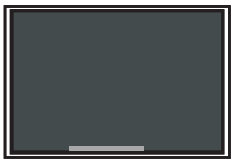
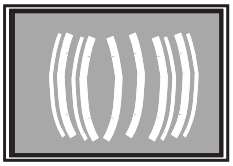
PANEL SUPPLIER	CODE
AU	1
CPT	2
LPL(LG)	3
QDI	4

Failure Mode Of Panel

Go to cover page

Quick reference for failure mode of LCD panel

this page presents problems that could be made by LCD panel.
It is not necessary to repair circuit board. Simply follow the mechanical instruction on this manual to eliminate failure by replace LCD panel.

Failure description	Phenomenon
Vertical block defect	
Vertical dim lines	
Vertical lines defect (Always bright or dark)	
Horizontal block defect	
Horizontal dim lines	
Horizontal lines defect (Always bright or dark)	
Has bright or dark pixel	
Polarizer has bubbles	
Polarizer has bubbles	
Foreign material inside polarizer. It shows liner or dot shape.	
Concentric circle formed	
Bottom back light of LCD is brighter than normal	
Back light un-uniformity	
Backlight has foreign material. Black or white color, liner or circular type	

All units that are returned for service or repair must pass the original manufactures safety tests. Safety testing requires both *Hipot* and *Ground Continuity* testing.

HI-POT TEST INSTRUCTION

1.Application requirements

1.1 All mains operated products must pass the Hi-Pot test as described in this instruction.
1.2 This test must be performed again after the covers have been refitted following the repair, inspection or modification of the product.

2. Test method

2.1 Connecting conditions

2.1.1 The test specified must be applied between the parallel-blade plug of the mainscord and all accessible metal parts of the product.
2.1.2 Before carrying out the test, reliable conductive connections must be ensured and thereafter be maintained throughout the test period.
2.1.3 The mains switch(es) must be in the "ON" position.

2.2 Test Requirements
All products should be HiPot and Ground Continuity tested as follows:

Condition	HiPot Test for products where the mains input range is Full range(or 220V AC)	HiPot Test for products where the mains input is 110V AC(USA type)	Ground Continuity Test requirement
Test voltage	2820VDC (2000VAC)	1700VDC (1200VAC)	Test current: 25A,AC Test time: 3 seconds(min.) Resistance required: <=0.09+Rohm, R is the resistance of the mains cord.
Test time (min.)	3 seconds	1 second	
Trip current (Tester)	set at 100 uA for Max. limitation; set at 0.1 uA for Min. Limitation	5 mA	
Ramp time (Tester)	set at 2 seconds		

2.2.1 The minimum test duration for Quality Control Inspector must be 1 minute.

2.2.2 The test voltage must be maintained within the specified voltage + 5%.

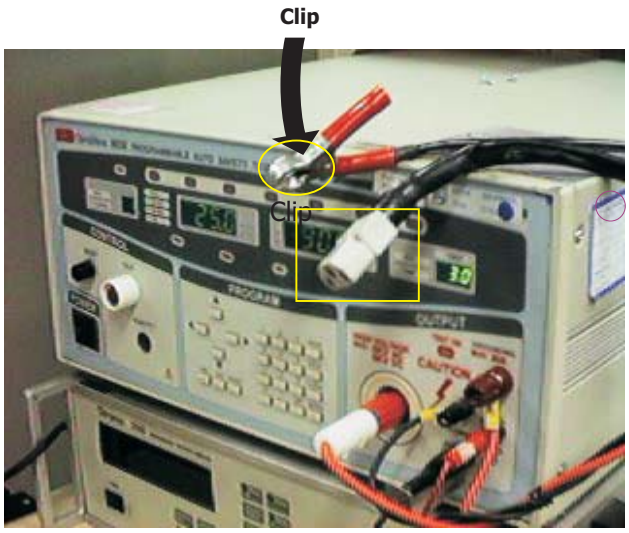
2.2.3 There must be no breakdown during the test.

2.2.4 The grounding blade or pin of mains plug must be conducted with accessible metal parts.

3. Equipments and Connection

3.1. Equipments
For example :
- ChenHwa 9032 PROGRAMMABLE AUTO SAFETY TESTER
- ChenHwa 510B Digital Grounding Continuity Tester
- ChenHwa 901 (AC Hi-pot test), 902 (AC, DC Hi-pot test) Withstanding Tester

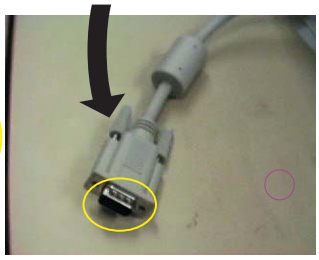
3.2. Connection
* Turn on the power switch of monitor before Hipot and Ground Continuity testing.



(ChenHwa 9032 tester)

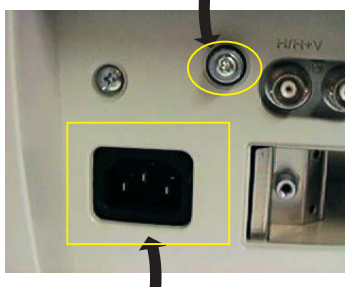
Video cable

Connect the "video cable" or "grounding screw" to the CLIP on your tester.



Grounding screw

Connect the power cord to the monitor.



Power outlet

(Rear view of monitor)

4. Recording

Hipot and Ground Continuity testing records have to be kept for a period of 10 years.

ISP Instructions

Go to cover page

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 106 10396) 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 106 10396) as shown in Fig. 1

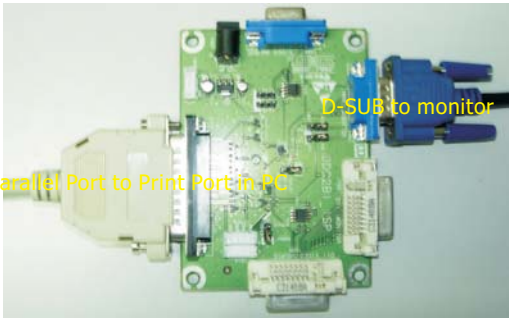


Fig. 1

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

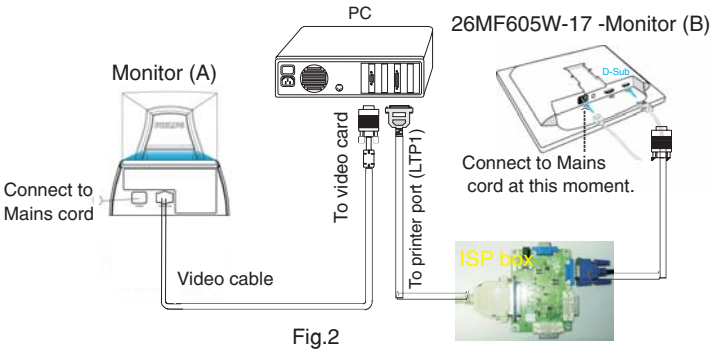


Fig.2

6. Install and setup the Easywriter program

Step 1 : Make a folder in your PC as shown in Fig. 3.
For example : C:\26MF605W-17
Step 2 : Copy ISP Software Easywriter into your folder as shown in Fig.3.

Fig. 3

Step 3 :Copy the FL1_NAFTA_26_V120_3A10.hex to C:\26MF605W-17 as shown in Fig. 4 .

Fig.4

Update the firmware

1. Double click the Easywriter.exe icon in desktop then appears window as shown in Fig.6 .

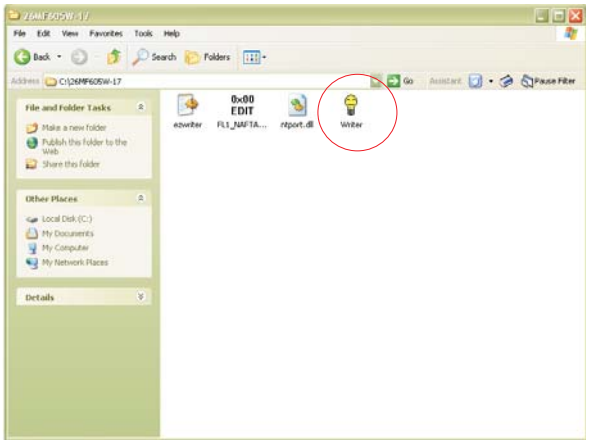


Fig. 5

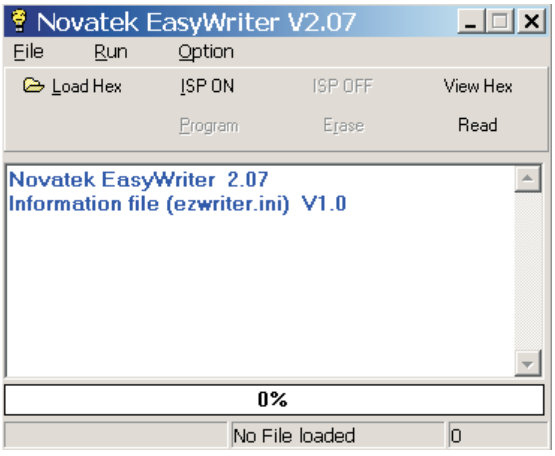


Fig. 6

2. Press the Load hex then select the FL1_NAFTA_26_V120_3A10 As shown in Fig. 7.

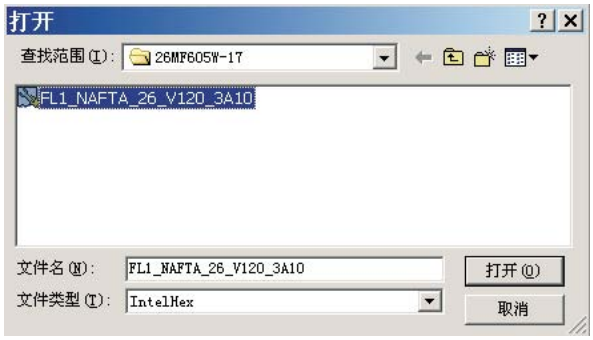


Fig. 7

3. Press the AUTO to running program , the firmware be updated as shown in Fig. 8~9.

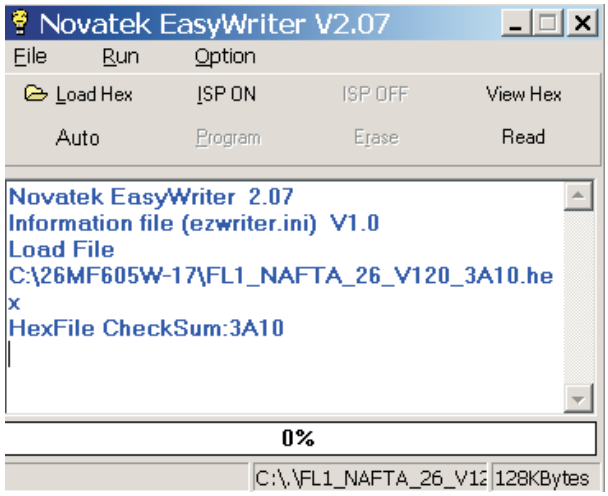


Fig. 8

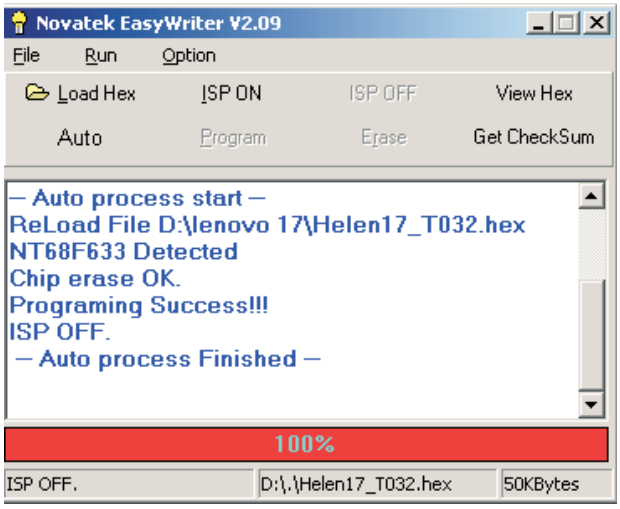


Fig. 9

4. Press the file --> exit to end program , as shown in Fig. 10.

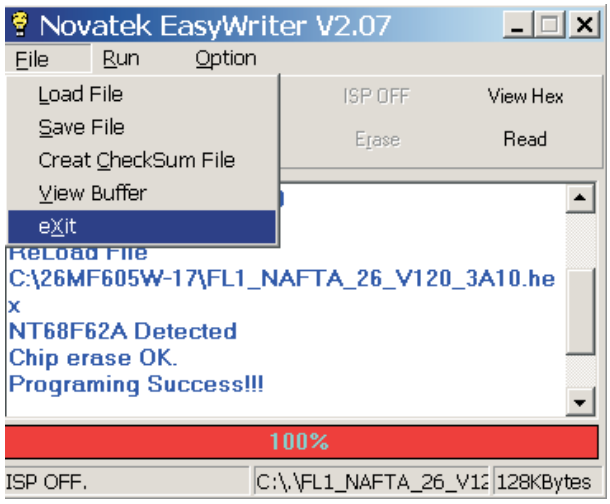


Fig. 10

If there is a warring message coming as shown in Fig 11. , you have to check the AC power, Video cable, or Novatek MCU.

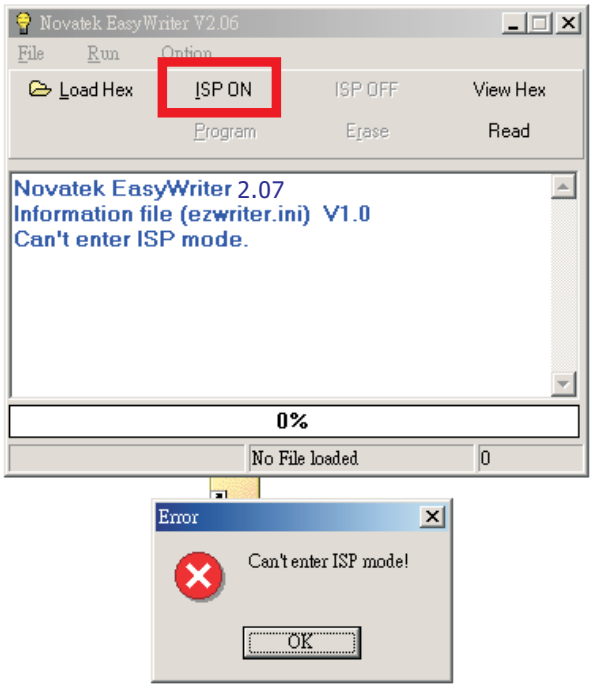


Fig. 11

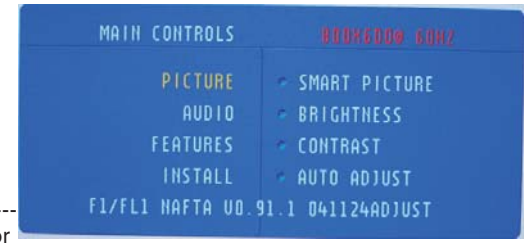
Go to cover page

6. Check the firmware version

1). Turn off monitor.

2). Press power "Power " button.Then quickly push " Volume -" and " Volume +",and hold this two buttons,then the screen comes out "Waiting For Automatic Adjustment ",then the screen will be black for one second ,untill comes out "Windows screen"] => then release this two buttons, then press "Menu" button, wait until the OSD menu You will find, after upgrade, the version have already changed from The former "F1/FL1 NAFTA V0.91.1 041124ADJUST" to the Present "F1/FL1 NAFTA V1.20.1 050120 Lg26 LC260WX2" as shown in Fig. 12 and Fig. 13.

Before upgrade



Factory Mode----- Indicator

Fig. 12

After upgrade

Factory Mode-------- Indicator

Fig. 13

3) Turn off the monitor, exit the factory mode.

0. Warning

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the unit via a wrist wrap with resistance. Keep components and tools also at the same potential !

1. Servicing of SMDs (Surface Mounted Devices)

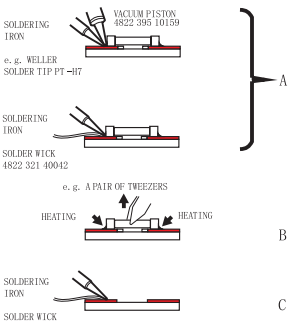
1.1 General cautions on handling and storage

- Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. The capacitance or resistance value of the SMDs may be affected by this.
- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 1A)

Fig. 1 DISMOUNTING



While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 1 B).

- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 1C).

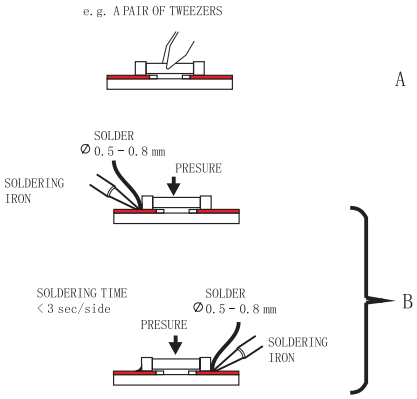
1.3 Caution on removal

- When handling the soldering.iron. use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250 C).
- The chip, once removed, must never be reused.

1.4 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig.2A).
- Next complete the soldering of the terminals of the component (see Fiq. 2B).

Fig. 2 MOUNTING



2. Caution when attaching SMDs

- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible, care must be taken to avoid damage to the terminals of the SMDs themselves.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250 C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used, but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 3).

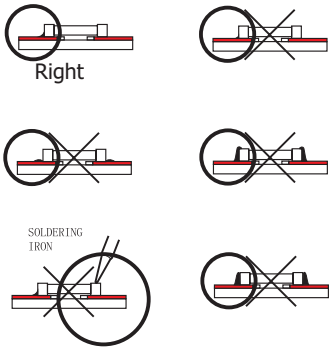


Fig.3 Examples

Repair Tips

Go to cover page

3. Lead-free product identification

You can identify lead-free product by Philips-lead-free logo on PCB.

4. Lead-free product repair instruction

4.1 Use only lead-free Solder Alloy 0622 149 00106(1.2mm SAC305) or 0622 14900108(1.0mm SAC305).
Remark: For lead free soldering material, please visit www.alphametals.com website for details. This is recommended by Philips.

4.2 Use only adequate solder tools applicable for lead-free soldering-tin. The solder tool must be able to reach at least a solder-temperature of 400 , to stabilize the adjusted temperature at the solder-tip and to exchange solder-tips for different applications.
Small Passives/Actives to be removed with thermal tweezers
Automated system for IC and BGA repair (Microscope, Camera, Beam split optics, Computer, Programmer, Heat controllers, Vacuum system, Laser pointer) Solder Hand-Tool (Adjustable in temperature height, Temperature shall be held constant,Flexible tips)

4.3 Adjust your solder tool so that a temperature around 360 -380 is reached and stabilized at the solder joint.
Heating-time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400 otherwise wear-out of tips will rise drastically and flux-fluid will be destroyed.Corrosion of Tool-Spikes can be avoided when using SAC305 and a temperature of less than 400 .

4.4 Mix of lead-free solder-tin/parts with leaded soldering-tin/parts is possible but not recommended. If not to avoid clean carefully the solder-joint from old tin and re-solder with new tin.

4.5 Use only original spare-parts listed in the Service-Manuals. Standard-material(consumables) can also be purchased at external companies.

4.6 Special information for lead-free BGA-ICs: this ICs will be delivered in so-called dry-packaging to protect the IC against moisture and with lead-free logo on it. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets wet inside and during the heating time the structure of the IC will be destroyed due to high (steam-)pressure. If the packaging was opened before usage the IC has to be heated up for some hours (around 90) for drying (Take attention for ESD-protection!)

5. Rework on BGA (Ball Grid Array) ICs

General
Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal
As is the case with any component that, it is essential when removing an (LF)BGA, the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the chance of warping the PWB.
To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation
When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent. After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the(LF)BGA
Note: Do not apply solder paste, as this has shown to result in problems during re-soldering.

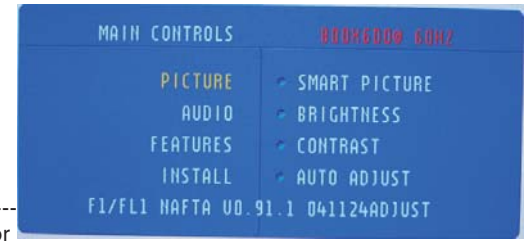
Device Replacement
The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers.
To reflow the solder, apply a temperature profile according to the IC data sheet. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information
For more information on how to handle BGA devices, visit this URL: http://www.atyourservice.ce.philips.com (needs subscription). After login, select Magazine , then go to Workshop Information . Here you will find Information on how .to deal with BGA-ICs.

1. TV Mode display adjust

1.1 White balance adjustment (B)

1.1.1 General set-up :
Equipment Requirements: Color analyzer.
Input requirements:
Input Signal Type : RF signal
1. Set to NTSC system, frequency=187.25MHZ (for NAFTA model), with white pattern of 100%
2. Select Smart picture to Personal mode and check the x, y data.
Input Signal Strength : 10mV (80 dBuV) terminal voltage.
Input Injection Point : TV Tuner input
Alignment method:
Initial Set-up:
1. Set TV(7119) Brightness=142; Saturate =64, Contrast =68 in Factory mode(can be fine tuned).
2. Set Smart picture as "Personal"
3. Apply "100% Full White" pattern by TV pattern generator.
Alignment : Adjust the VIDEO SCALER GAIN RG B in Factory Mode "NORMAL". (See Fig 1.)
[Enter factory menu :
1]. Turn off monitor.
2). Press power "Power " button.Then quickly push " Volume -" and " Volume +",and hold this two buttons,then the screen comes out "Waiting For Automatic Adjustment ",then the screen will be black for one second ,untill comes out "Windows screen"] => then release this two buttons, then press "Menu" button, wait until the OSD menu with Characters "F1/FL1 NAFTA V0.91.1 041124ADJUST" (below OSD menu) come on the Screen of the monitor(shown as Fig.1).



Factory Mode----- Indicator

Fig. 1

Use the CHNNEL- and CHNNEL+ to select the "F1/FL1 NAFTA V0.91.1 041124 ADJUST" and then press the "VOL +" button

Fig. 2

1. Check (X, Y) co-ordinates as below:

Picture Mode	x	y
Normal (Original)	0.289 ± 0.005	0.304 ± 0.005

Table 3: Reading with Minolta CA-110.

2. Check the gray pattern should be distinguish and color bar is correct

1.1.2 Set TV Color temperature in Factory mode as "WARM", and "COOL" The VIDEO SCALER GAIN R\G\B value will be followed below

	Normal/ the R′\G′\B′ are gain after alignment.	WARM	COOL
R gain	R′	R′	R′ -10
G gain	G′	G′ -10	G′ -10
B gain	B′	B′ -10	B′

2. PC mode Display Adjustment

2.1 Display quality adjustment:

2.1.1 Use timing mode,
The analogue color LCD monitor must be capable of displaying standard resolutions within the vertical frequency range of 58 – 63 Hz, and horizontal scan range of 30 - 50 KHz .
Use the CHROMA-2250 generator as the standard signal timing source.

	Dot rate (MHz)	H.freq (KHz)	Mode	Resolution	V.freq (Hz)	Remark
1	25.175	31.469	IBM VGA	640 * 480	59.940	
2	36.000	35.156	VESA	800 * 600	56.250	
3	40.000	37.879	VESA	800 * 600	60.317	
4	65.000	48.363	VESA	1024 * 768	60.004	
5	74.500	44.772	WXGA	1280 * 720	59.855	CVT
6	79.500	47.776	WXGA	1280 * 768	59.87	CVT

Resolution recommend on 1280 X 720 @ 60Hz
2.1.2 use the POPO (pixel on pixel off) pattern to adjust the clock until no stripe and adjust the phase until clear picture. Check all pre-set 6 modes.

2.2 WHITE-D adjustment (B)

2.2.1 At factory mode apply 1280X720 @60Hz mode with 32 gray pattern. Set smart picture at "Normal" , and Brightness to 50% and Contrast to 50%(showns as Fig.3).
Press AUTO-COLOR function for auto ADC offset and gain setup.
2.2.2 Apply full white pattern Set SCALER GAIN R G B = VIDEO SCALER GAIN R G B.

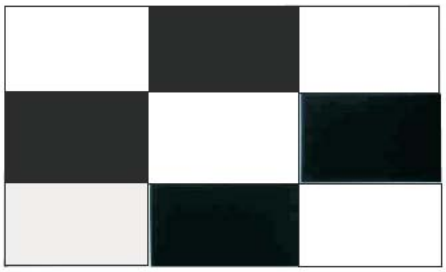


Fig. 3

Color Adjustment

Go to cover page

1. Check (X, Y) co-ordinates as below :

	Normal/ (8500°K)		
x (center)	0.289 ± 0.015		
y (center)	0.304 ± 0.015		

Table 4: Reading with Minolta CA-110.

2. Check the gray level color poor & noise condition and chromaticity

Note:

1. Use Minolta CA-110 for color coordinates and luminance check.
2. Luminance> 400 cd/m^2 in the center of the screen at Original (NORAML)color and PC Brightness control; Contrast control at 100%

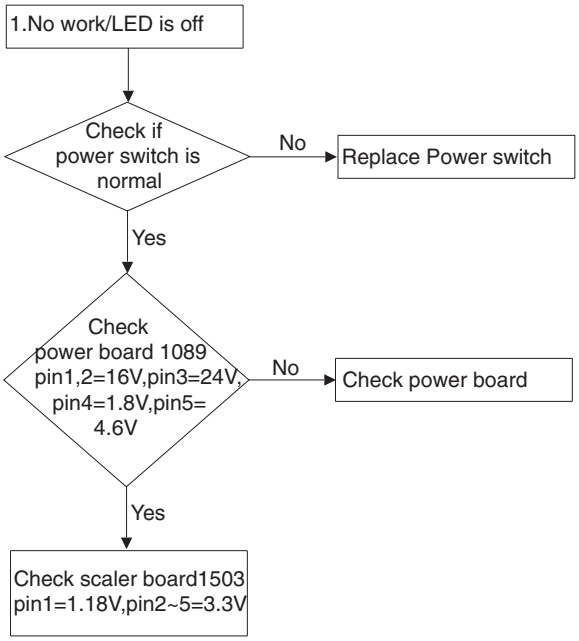
2.2.3 Set Smart picture as "WARM", and "COOL" The SCALER GAIN R\G\B value will be followed below

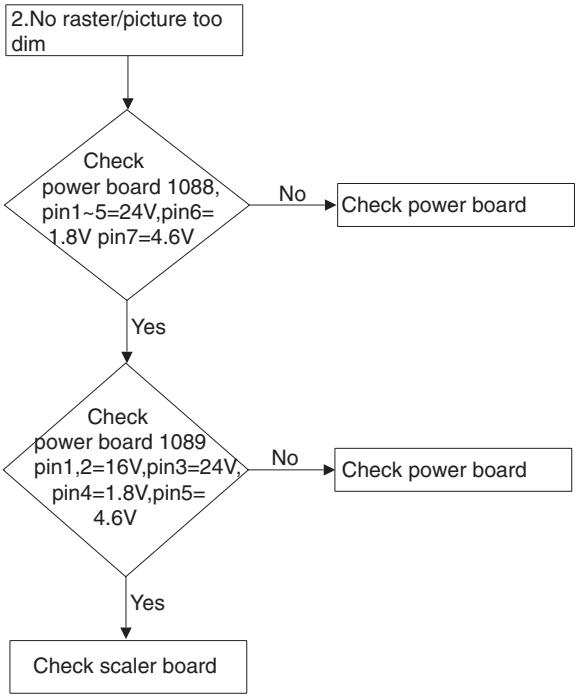
	Normal/ the R′ \G′ \B′ are gain after alignment.	WARM	COOL
R gain	R′	R′	R′ -10
G gain	G′	G′ -10	G′ -10
B gain	B′	B′ -10	B′

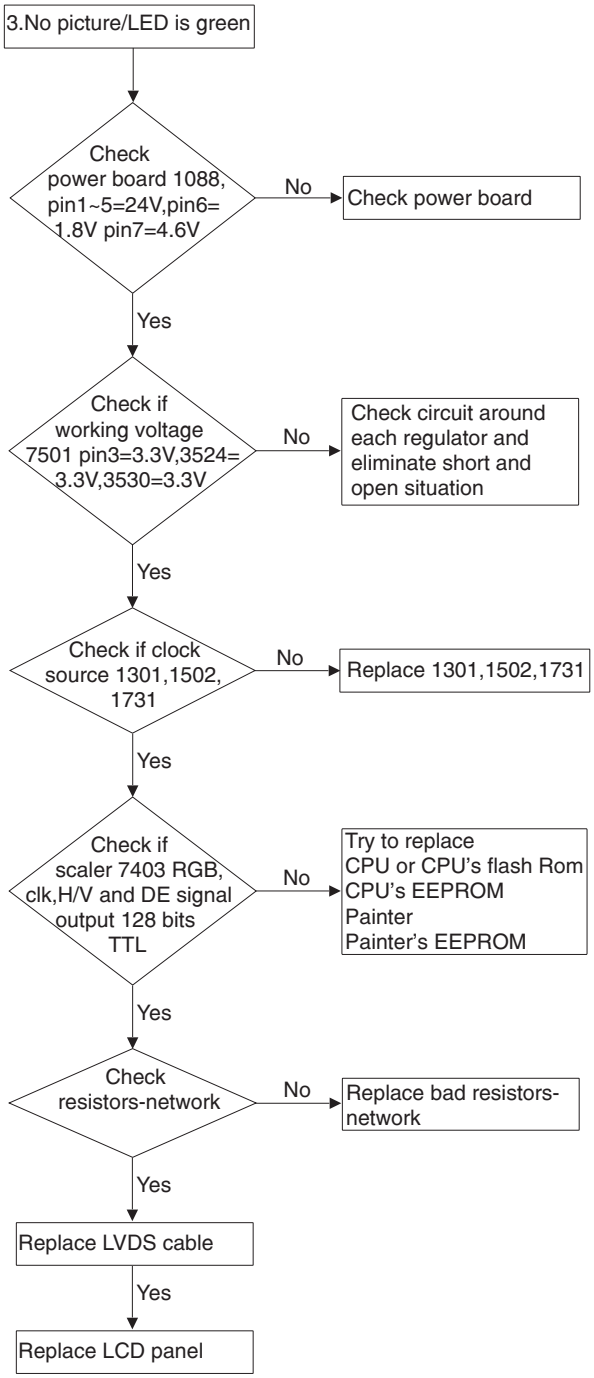
2.3 Check the digital interface cable (B)

Check the 64 gray level color poor & noise condition.

Repair Flow Chart

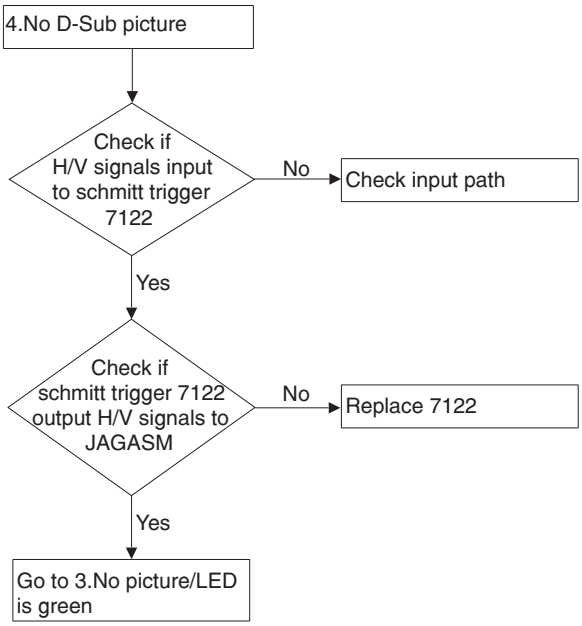


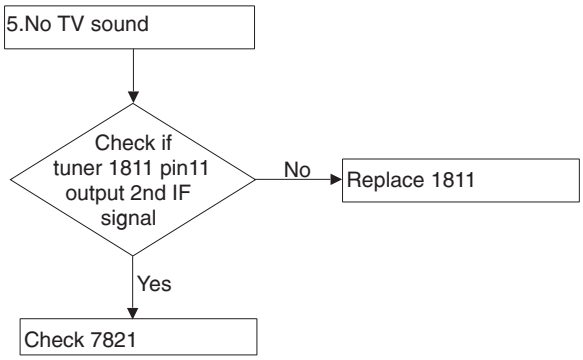


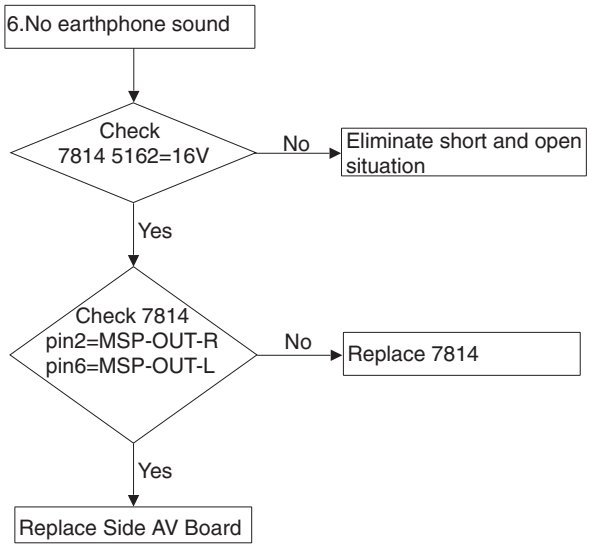


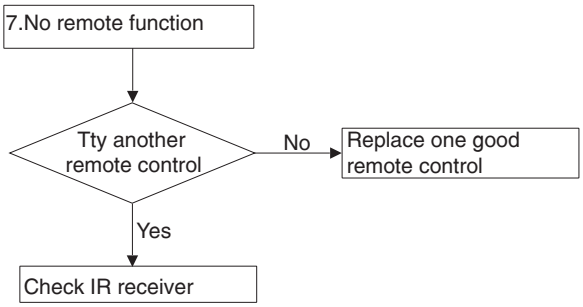
Repair Flow Chat

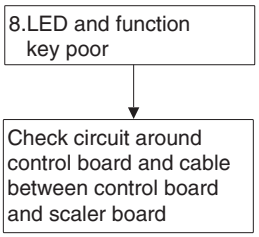
Go to cover page

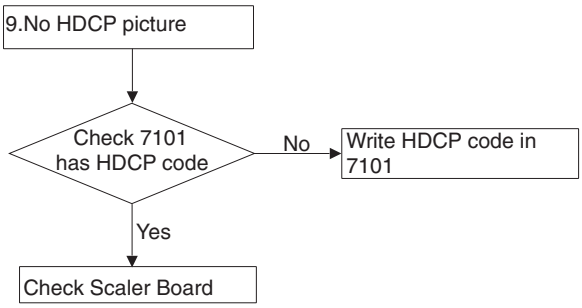






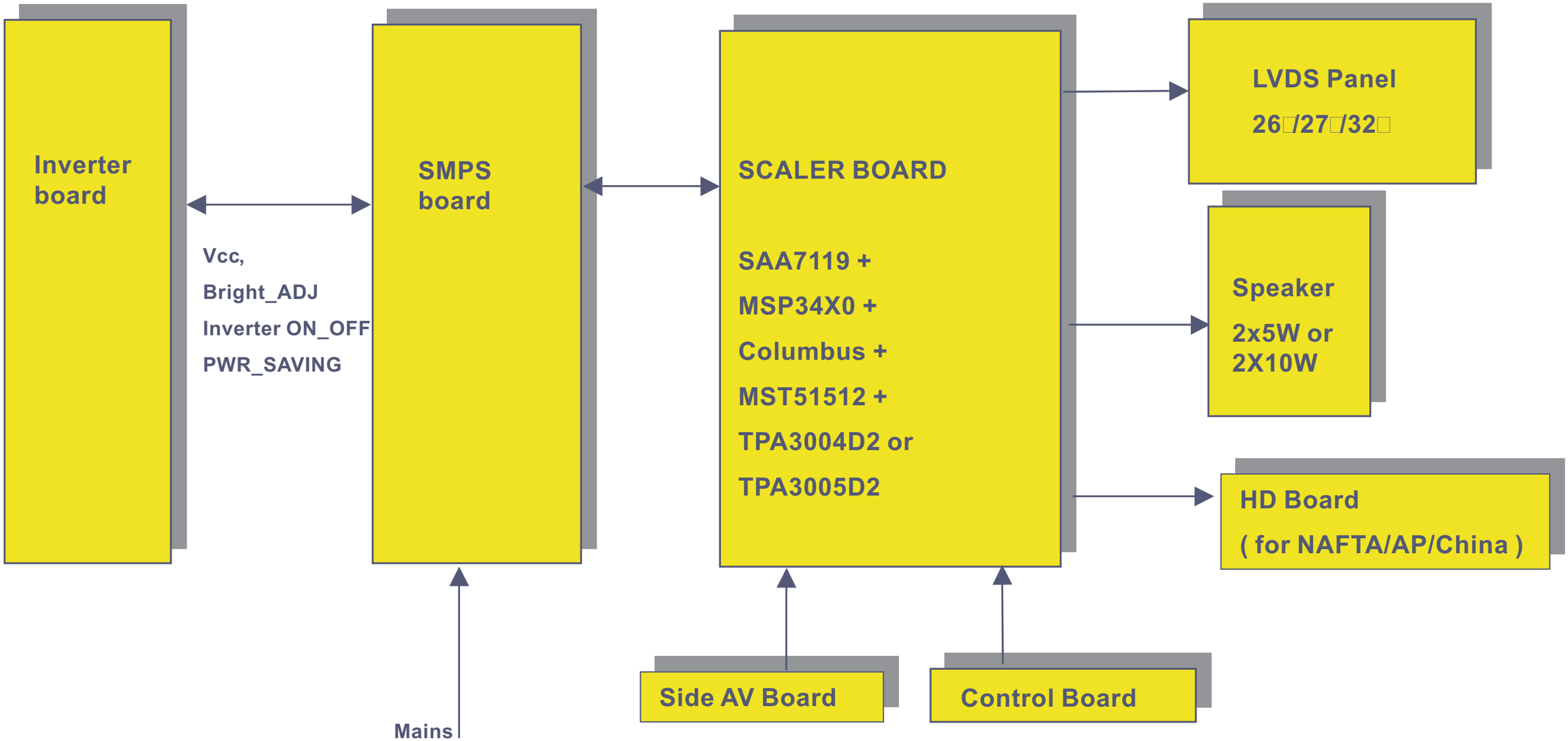






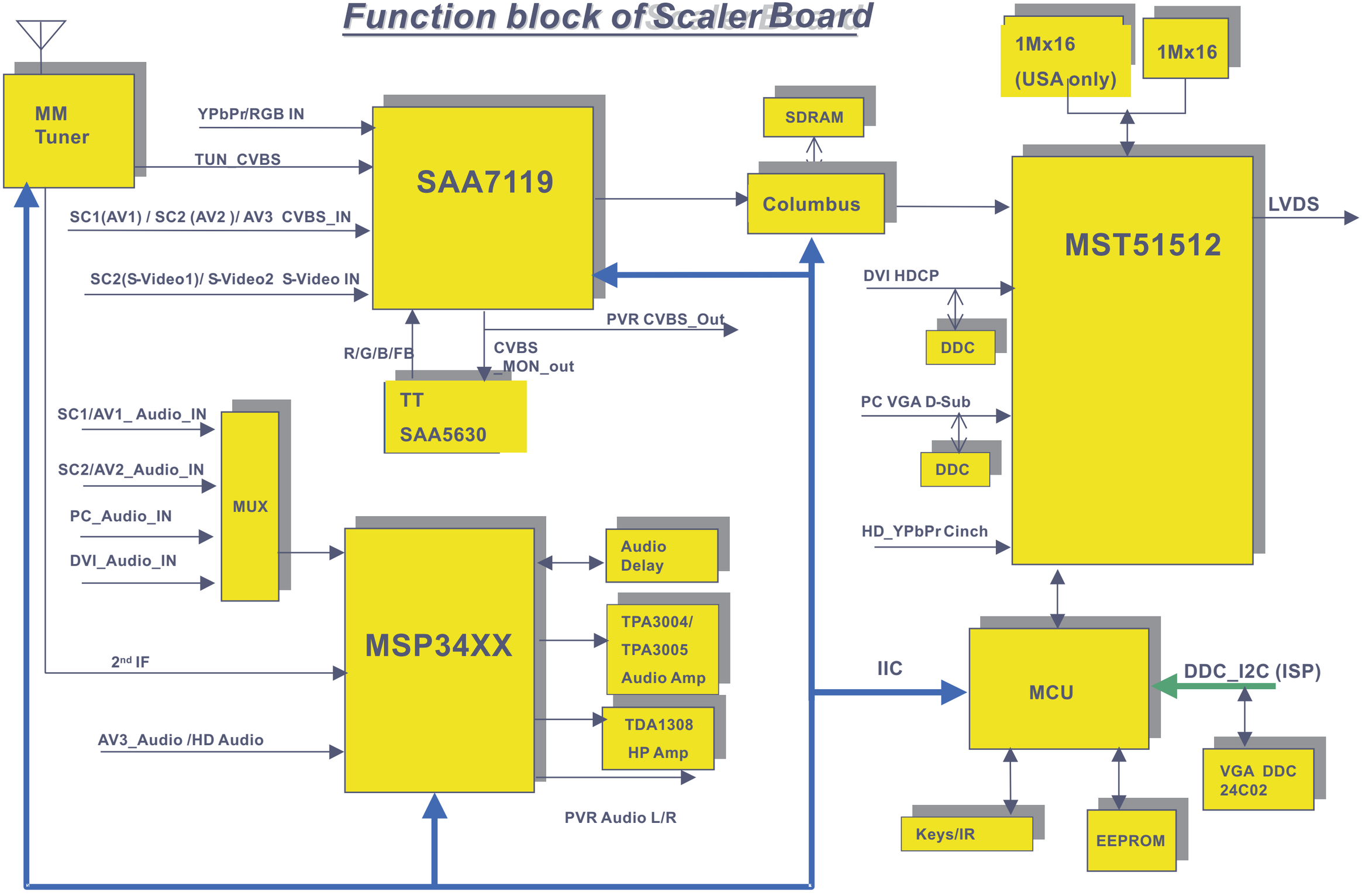
1. Function block & PCB Dimension:

Basic structure:

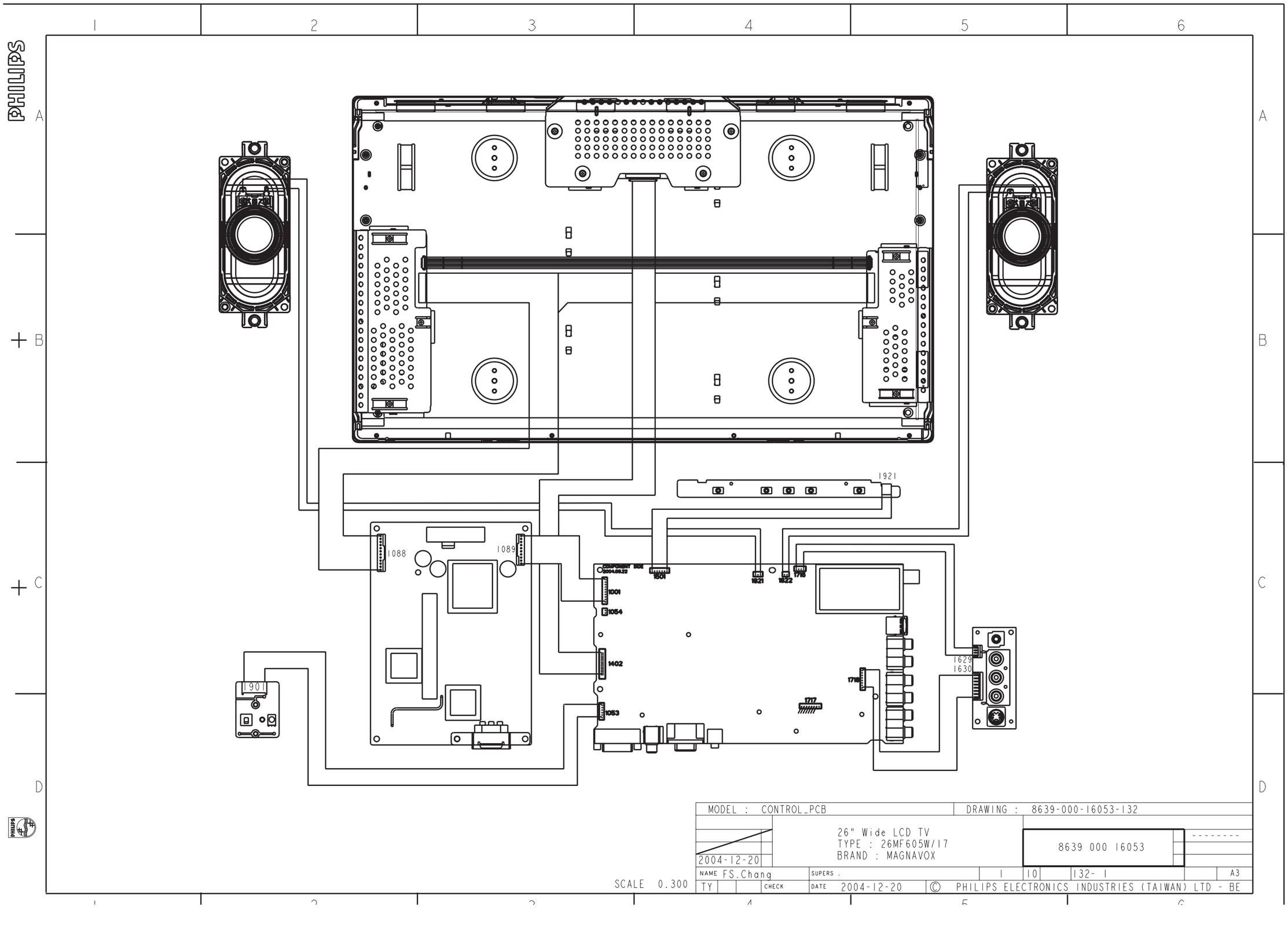


Block Diagram-2

Function block of Scaler Board



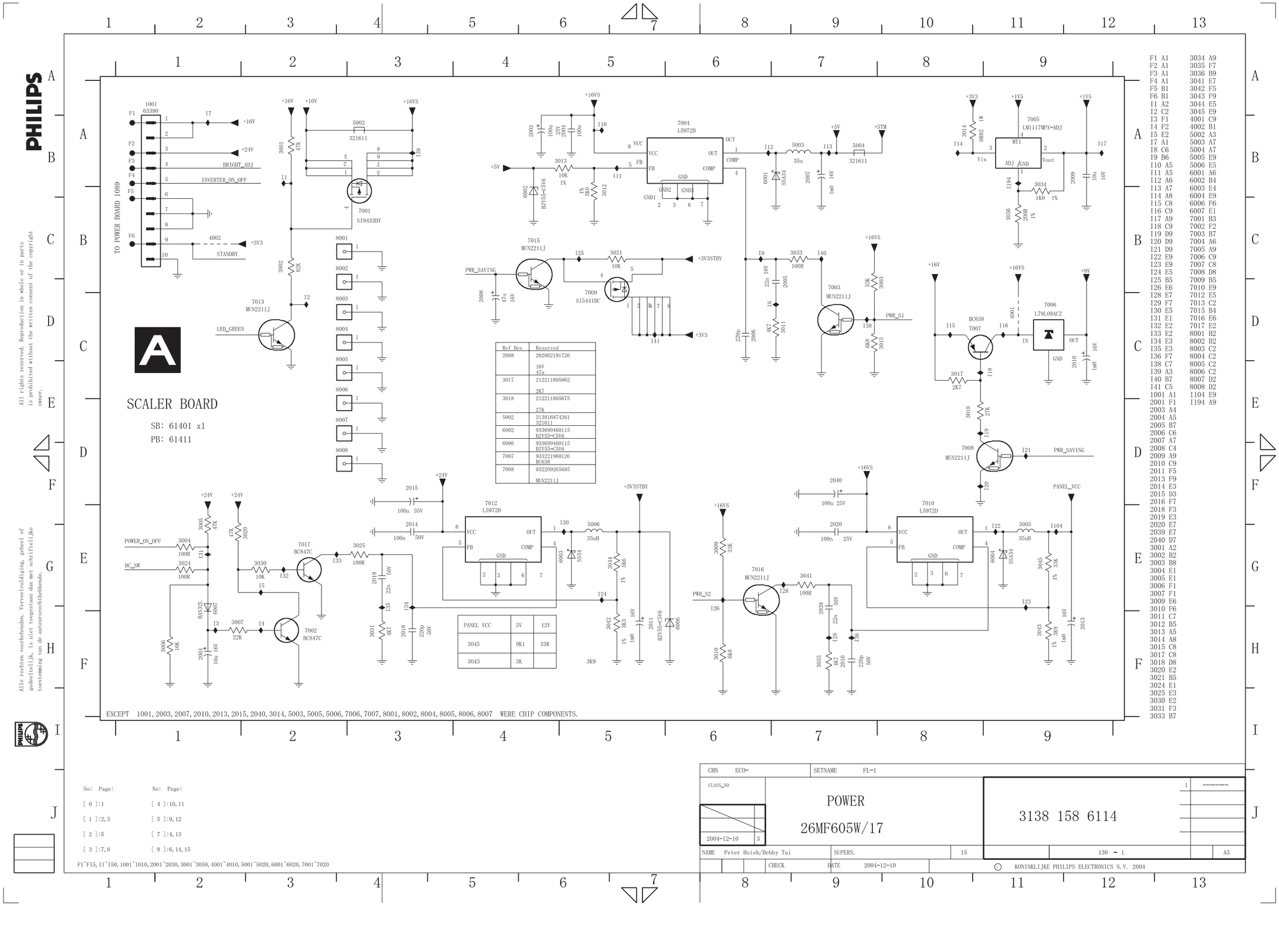
Wiring Diagram



MODEL : CONTROL_PCB					DRAWING : 8639-000-16053-132		
2004-12-20	26" Wide LCD TV TYPE : 26MF605W/17 BRAND : MAGNAVOX				8639 000 16053		--------
NAME FS.Chang	SUPERS .			1	10	132- 1	A3
TY / CHECK	DATE 2004-12-20	© PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD - BE					

SCALE 0.300

Scaler Diagram-1



Ref Des	Reserved
2008	202002191726 16V 47u
3017	212211805662 2K7
3018	212211805675 27K
5002	313816874261 321611
6002	933699460115 BZV55-C5V6
6006	933699460115 BZV55-C5V6
7007	933221960126 BC638
7008	932209265685 MUN2211J

PANEL_VCC	5V	12V
3045	9K1	33K
3043	3K	

F1 A1 F2 A1 F3 A1 F4 A1 F5 B1 F6 B1 I1 A2 I2 C2 I3 F1 I4 F2 I5 E2 I7 A1 I8 C6 I9 B6 I10 A5 I11 A5 I12 A6 I13 A7 I14 A8 I15 C8 I16 C9 I17 A9 I18 C9 I19 D9 I20 D9 I21 D9 I22 E9 I23 E9 I24 E5 I25 B5 I26 E6 I28 E7 I29 F7 I30 E5 I31 E1 I32 E2 I33 E2 I34 E3 I35 E3 I36 F7 I38 C7 I39 A3 I40 B7 I41 C5 1001 A1 2001 F1 2003 A4 2004 A5 2005 B7 2006 C6 2007 A7 2008 C4 2009 A9 2010 C9 2011 F5 2013 F9 2014 E3 2015 D3 2016 F7 2018 F3 2019 E3 2020 E7 2039 E7 2040 D7 3001 A2 3002 B2 3003 B8 3004 E1 3005 E1 3006 F1 3007 F1 3009 E6 3010 F6 3011 C7 3012 B5 3013 A5 3014 A8 3015 C8 3017 C8 3018 D8 3020 E2 3021 B5 3024 E1 3025 E3 3030 E2 3031 F3 3033 B7 3034 A9 3035 F7 3036 B9 3041 E7 3042 F5 3043 F9 3044 E5 3045 E9 4001 C9 4002 B1 5002 A3 5003 A7 5004 A7 5005 E9 5006 E5 6001 A6 6002 B4 6003 E4 6004 E9 6006 F6 6007 E1 7001 B3 7002 F2 7003 B7 7004 A6 7005 A9 7006 C9 7007 C8 7008 D8 7009 B5 7010 E9 7012 E5 7013 C2 7015 B4 7016 E6 7017 C2 1104 E9 1194 A9

No:	Page:	No:	Page:
[0]	:1	[4]	:10, 11
[1]	:2, 3	[5]	:9, 12
[2]	:5	[7]	:4, 13
[3]	:7, 8	[8]	:6, 14, 15

F1~F15, I1~I50, 1001~1010, 2001~2030, 3001~3050, 4001~4010, 5001~5020, 6001~6020, 7001~7020

CHN ECO-		SETNAME FL-1	
CLASS_NO	POWER 26MF605W/17	3138 158 6114	1 --------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 1	A3
	CHECK DATE 2004-12-10	KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

Scaler Diagram-2

SCALER BOARD

SB: 61401 x1

PB: 61411

ROW_A 1101-1 74320-1004 — F22 RX2− / F23 RX2+

ROW_B 1101-2 74320-1004 — F20 RX1− / F21 RX1+ / F29

ROW_C 1101-3 74320-1004 — F19 RX0− / F18 RX0+ / F17 RXC+ / F16 RXC−

1133

1101-4 74320-1004 — F28

DVI_5V — F24 — 3107 100R — I51; 3108 1K0; 2102 100n

DVI_SCALER — F33

F25 — 3101 100R — DVI_S_TEST — 3102 10K — I52; +5V; 6101 BAS32L; 6102 BAS32L; 2105 100n

3105 4K7; 3106 4K7

F26 — 3103 100R

F27 — 3104 100R

7101 M24C02-WMN6 (F (256x8) EEPROM)

DDC_WP — WC (7); SCL (6) — I55 — DVI_SCL; SDA (5) — I54 — DVI_SDA; ADR (0 1 2); 8; 4

1104 69017 — F32; F30; F31

F30 — 3111 1K0 — I57 — DVI_AUDIO_R; 1102; 2106 330p; 2103 330p; 3112 27K

F31 — 3114 1K0 — I58 — DVI_AUDIO_L; 1103; 2107 330p; 2104 330p; 3115 27K

RX0+ 1105; RX0− 1106; RX1+ 1107; RX1− 1110; RX2+ 1108; RX2− 1109; RXC+ 1132; RXC− 1131

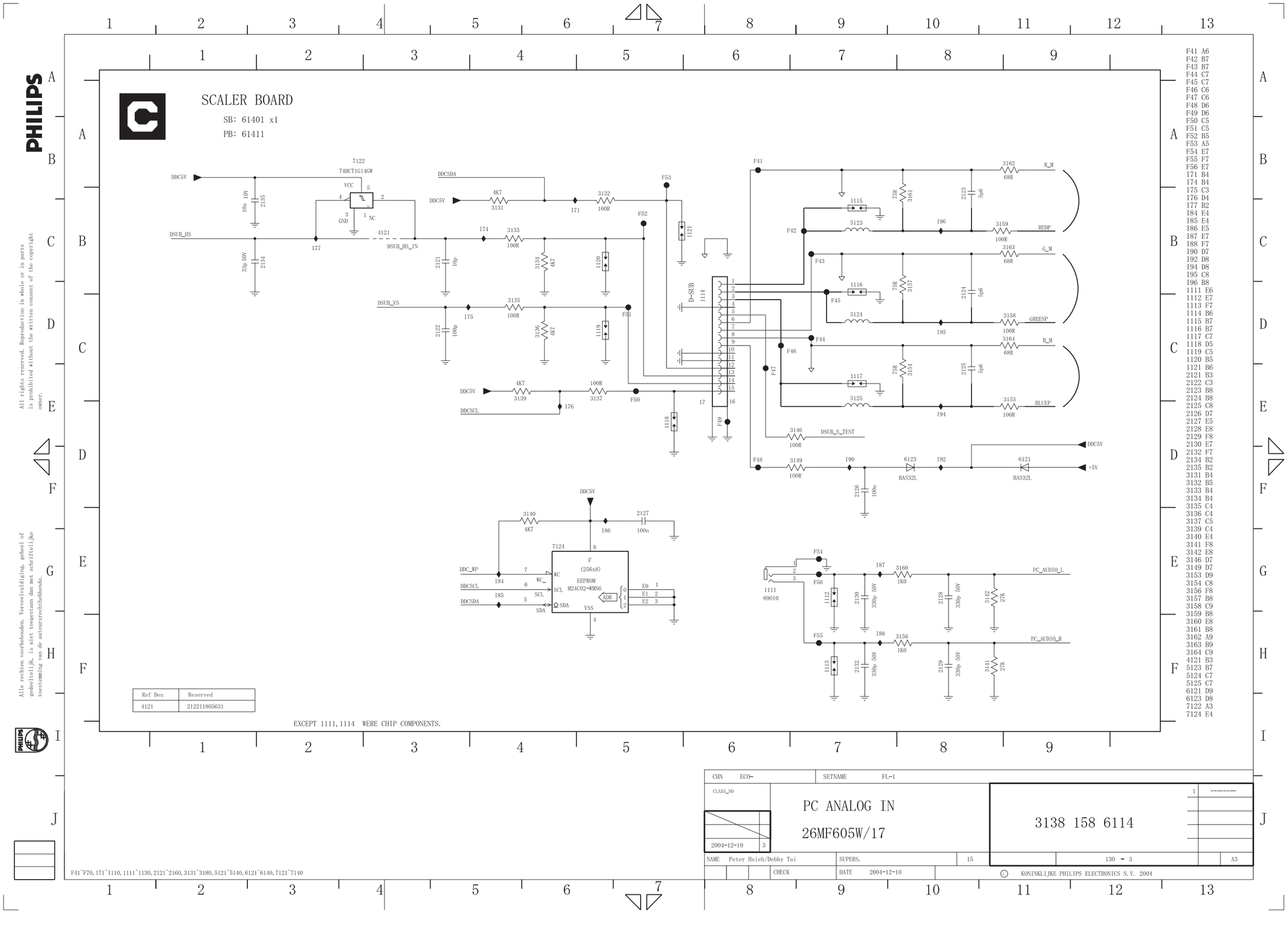
F16 C2
F17 C2
F18 C2
F19 C2
F20 B2
F21 B2
F22 A2
F23 A2
F24 B5
F25 B5
F26 C5
F27 C5
F28 E2
F29 B2
F30 E4
F31 E4
F32 D4
F33 B4
151 B7
152 B7
154 C6
155 C6
157 E6
158 E6
1101-1 A1
1101-2 B1
1101-3 C1
1101-4 D1
1102 E4
1103 E4
1104 D4
1105 E7
1106 E7
1107 E7
1108 E8
1109 E8
1110 E8
1131 E9
1132 E8
1133 B2
2102 B6
2103 E5
2104 E5
2105 C8
2106 E5
2107 E5
3101 C5
3102 B6
3103 C6
3104 C6
3105 C6
3106 C6
3107 B6
3108 B5
3111 E5
3112 E6
3114 E5
3115 E6
6101 B6
6102 B8
7101 C7

EXCEPT 1101, 1104 WERE CHIP COMPONENTS.

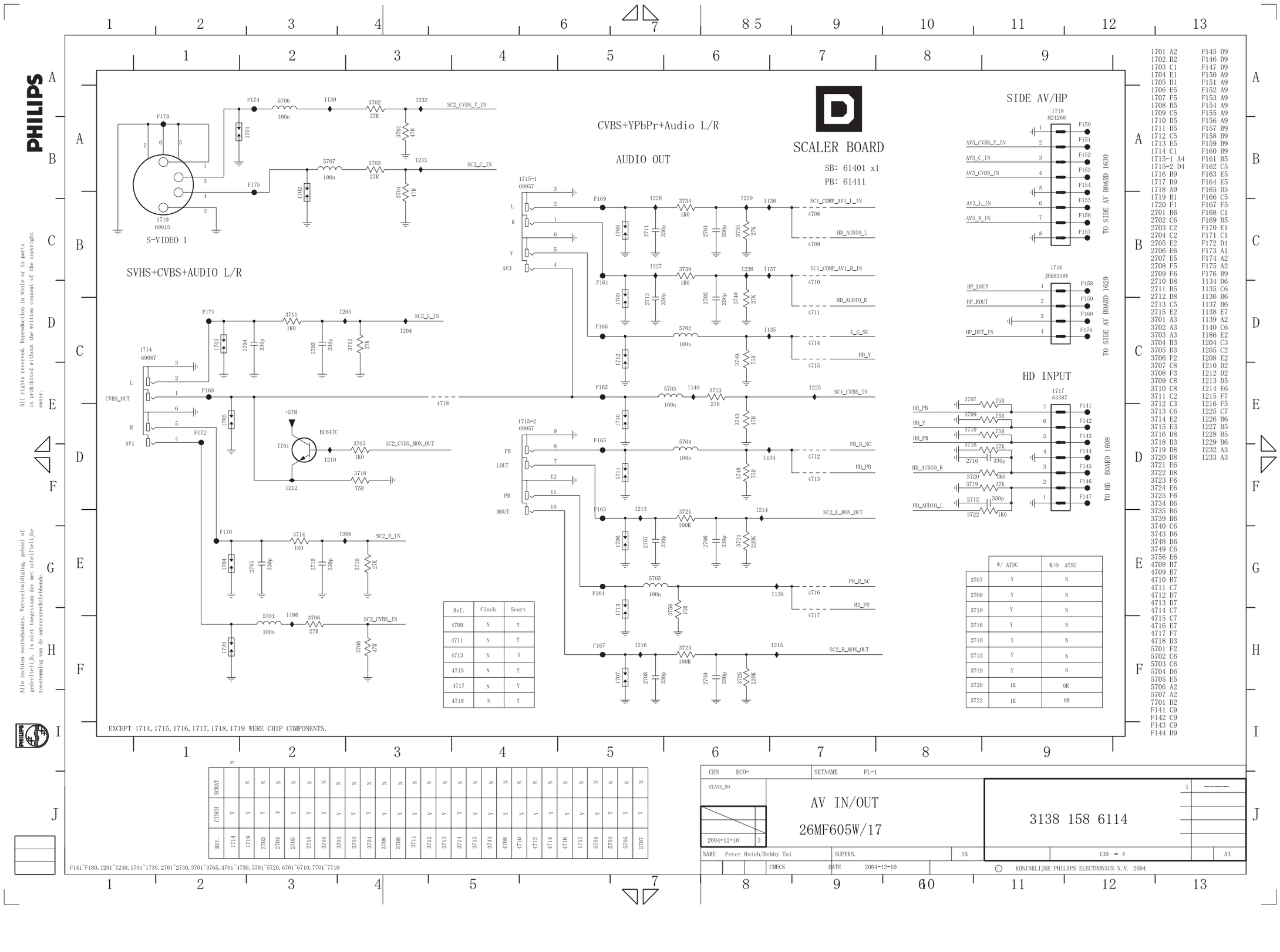
F16~F40, I51~I70, 1101~1110, 2101~2120, 3101~3130, 5101~5120, 6101~6120, 7101~7120

CHN ECO−	SETNAME FL-1		
CLASS_NO	DVI HDCP IN	3138 158 6114	1 --------
2004-12-10 3	26MF605W/17		
NAME Peter Hsieh/Debby Tai	SUPERS. 15		
CHECK	DATE 2004-12-10	130 − 2	A3

Scaler Diagram-3



Scaler Diagram-4



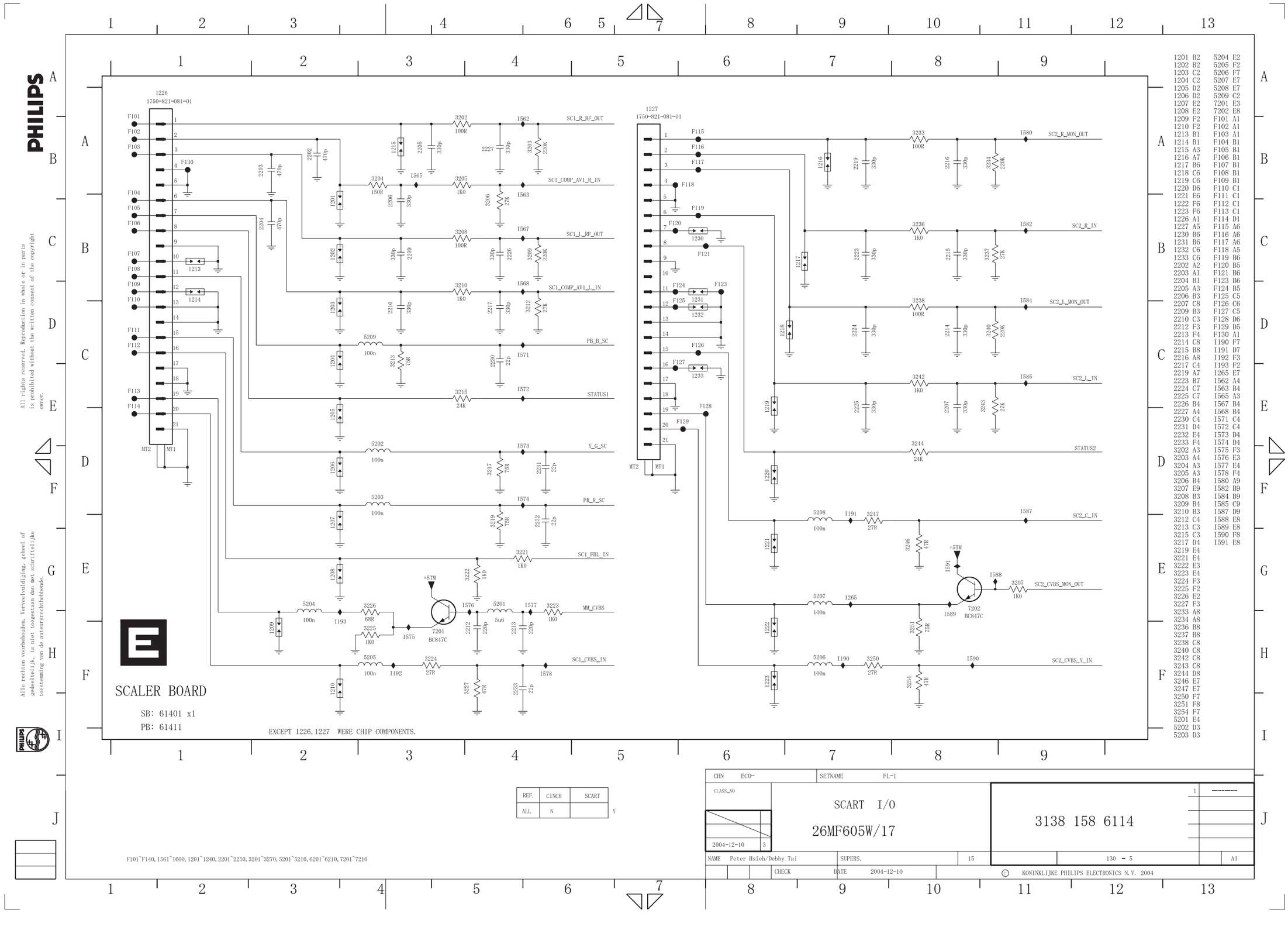
Ref.	Cinch	Scart
4709	N	Y
4711	N	Y
4713	N	Y
4715	N	Y
4717	N	Y
4718	N	Y

	W/ ATSC	W/O ATSC
3707	Y	N
3709	Y	N
3710	Y	N
3716	Y	N
3710	Y	N
3712	Y	N
3719	Y	N
3720	1K	0R
3722	1K	0R

REF.	1714	1719	2703	2704	2705	2715	3701	3702	3703	3704	3706	3708	3711	3712	3713	3714	3715	3743	4708	4710	4712	4714	4716	4717	5701	5703	5706	5707
CINCH	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SCRAT	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

CHN ECO-	SETNAME FL-1		
CLASS_NO	AV IN/OUT 26MF605W/17	3138 158 6114	1 ------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 4	A3
CHECK	DATE 2004-12-10	KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

Scaler Diagram-5

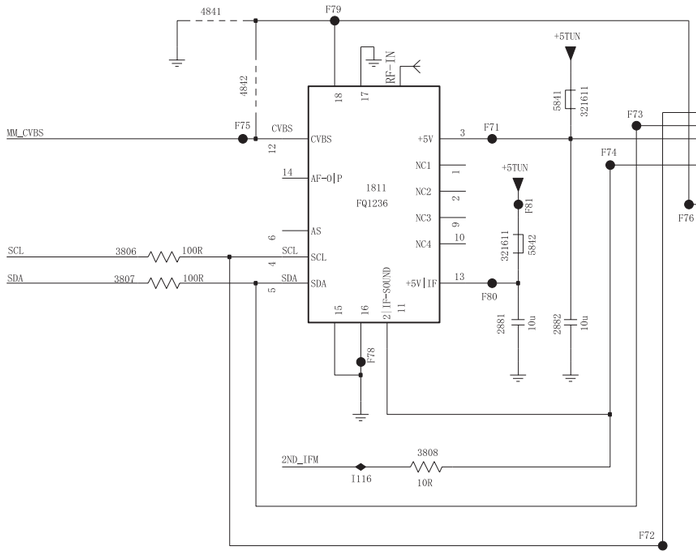


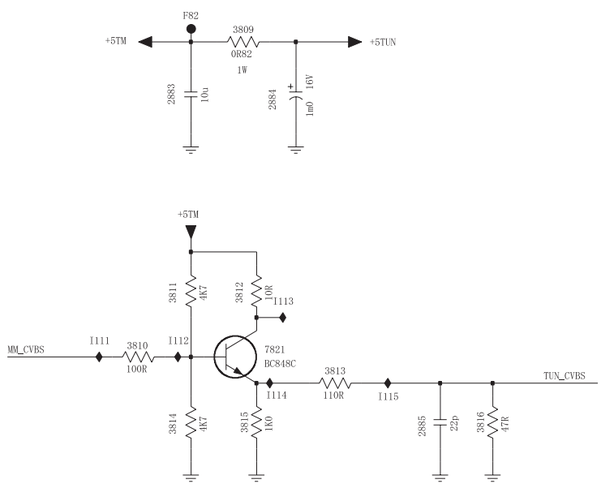
PHILIPS

SCALER BOARD

SB: 61401 x1

PB: 61411





FOR NAFTA ONLY

REF.	PHILIPS	FORWARD
1812	N	Y
1811	Y	N
4841	Y	N
4842	N	Y

	SCART	CINCH
1811	313914911681	313914722661

EXCEPT 1011, 1012, 2034, 3057 WERE CHIP COMPONENTS.

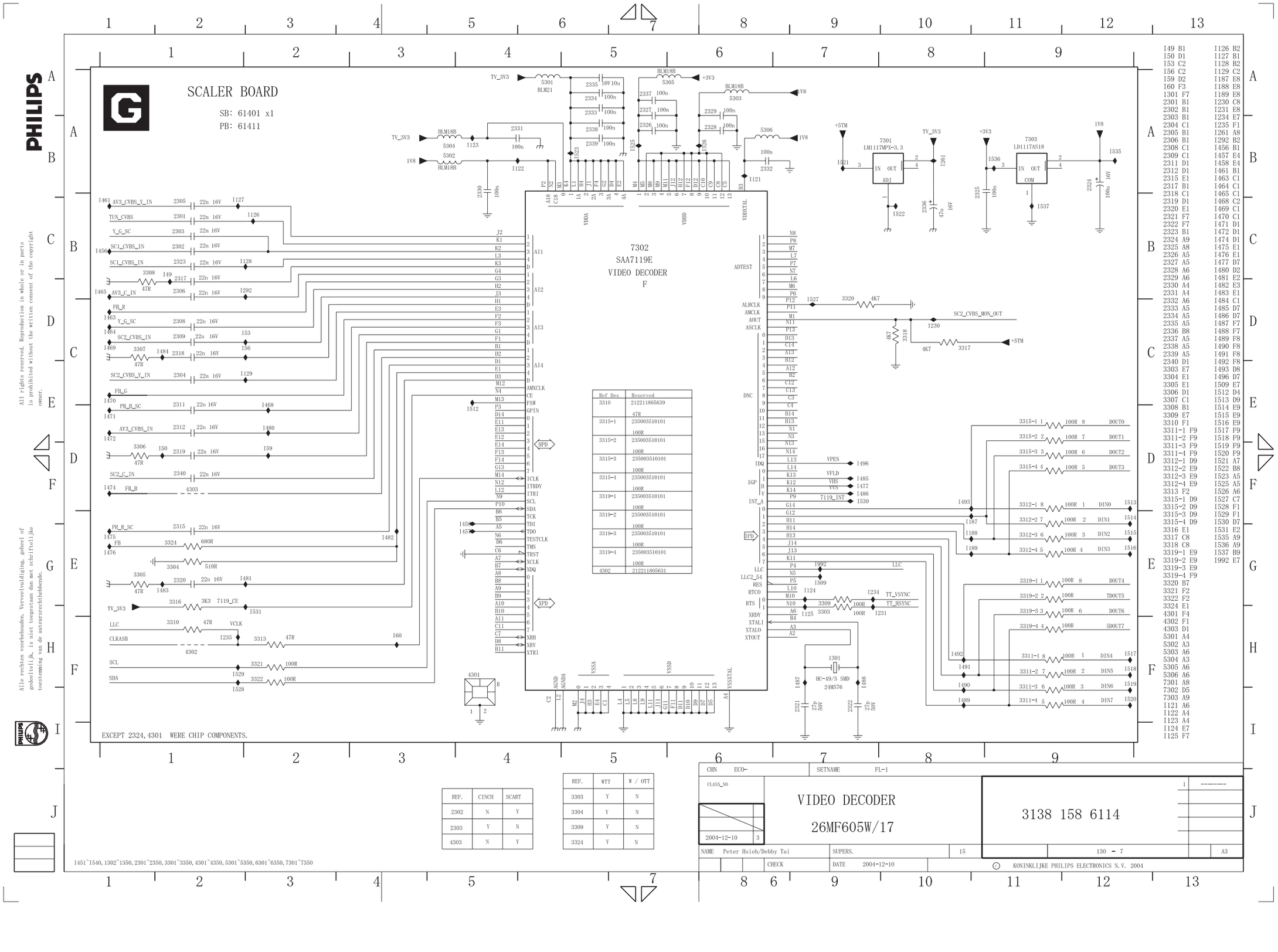
F71 B4
F72 D5
F73 B5
F74 B5
F75 B3
F76 B5
F77 B5
F78 C3
F79 A3
F80 C4
F81 B4
F82 B7
1811 B3
1812 A5
2881 C4
2882 C4
2883 B7
2884 B7
2885 D8
3806 B2
3807 C2
3808 D4
3809 B7
3810 D7
3811 C7
3812 C7
3813 D8
3814 D7
3815 D7
3816 D8
4841 A2
4842 B3
5841 B4
5842 B4
7821 D7
1111 C6
1112 C7
1113 C7
1114 D7
1115 D8
1116 D3

CHN ECO-		SETNAME FL-1	
CLASS_NO	Tuner	3138 158 6114	1 -------
2004-12-10 3	26MF605W/17		
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 6	A3
CHECK	DATE 2004-12-13	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

F71~F100, I111~I130, 1811~1820, 2881~2899, 3806~3830, 4841~4850, 5841~5850, 6821~6830, 7821~7830

Go to cover page

Scaler Diagram-7



Ref Des	Reserved
3310	212211805639
	47R
3315-1	235003510101
	100R
3315-2	235003510101
	100R
3315-3	235003510101
	100R
3315-4	235003510101
	100R
3319-1	235003510101
	100R
3319-2	235003510101
	100R
3319-3	235003510101
	100R
3319-4	235003510101
	100R
4302	212211805631

REF.	CINCH	SCART
2302	N	Y
2303	Y	N
4303	N	Y

REF.	WTT	W / OTT
3303	Y	N
3304	Y	N
3309	Y	N
3324	Y	N

CHN ECO-		SETNAME FL-1	
CLASS_NO	VIDEO DECODER 26MF605W/17	3138 158 6114	1 -------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 7	A3
	CHECK DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

SCALER BOARD

SB: 61401 x1

PB: 61411

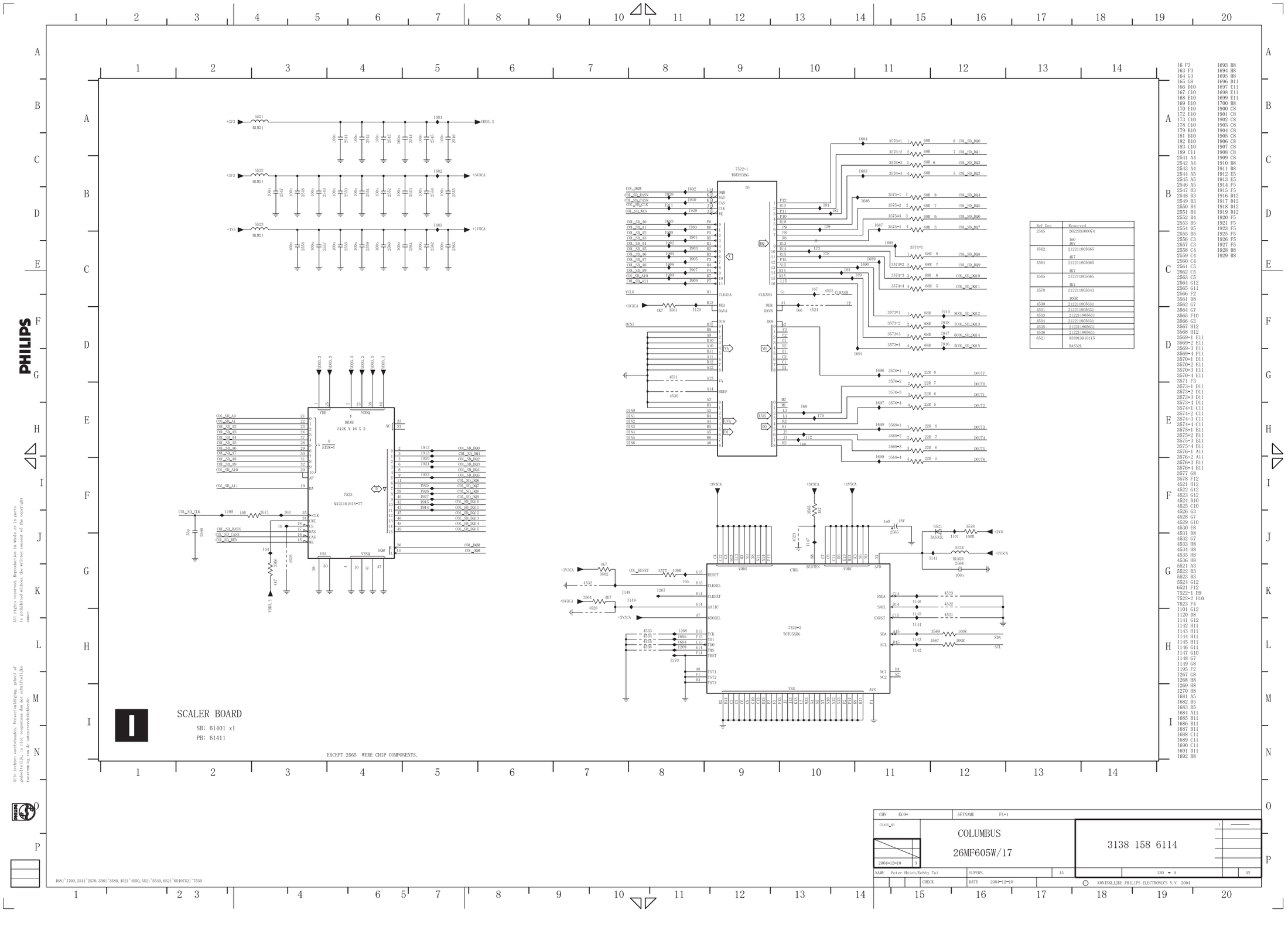
I61 B4
I62 E3
2351 C7
2353 B3
2354 A3
2355 A3
2356 B3
2357 A3
2359 E3
3351 B3
3352 B3
3353 E6
3354 E7
3355 E7
3356 B2
3357 A1
3358 B3
5351 A3
5355 C7
7351 A4
7352 A2
I105 A4
I701 A4
I703 A3
I704 A2
I707 B4
I708 B4
I709 A3
I710 E6
I711 D6
I712 E6
I713 E6
I714 E4
I715 B4
I716 A4
I717 A3

REF.	WTT	W/OTT
ALL	Y	N

CHN ECO-		SETNAME FL-1	
CLASS_NO	T/T DECODER 26MF605W/17	3138 158 6114	1 --------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15		130 - 8 A3
CHECK	DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

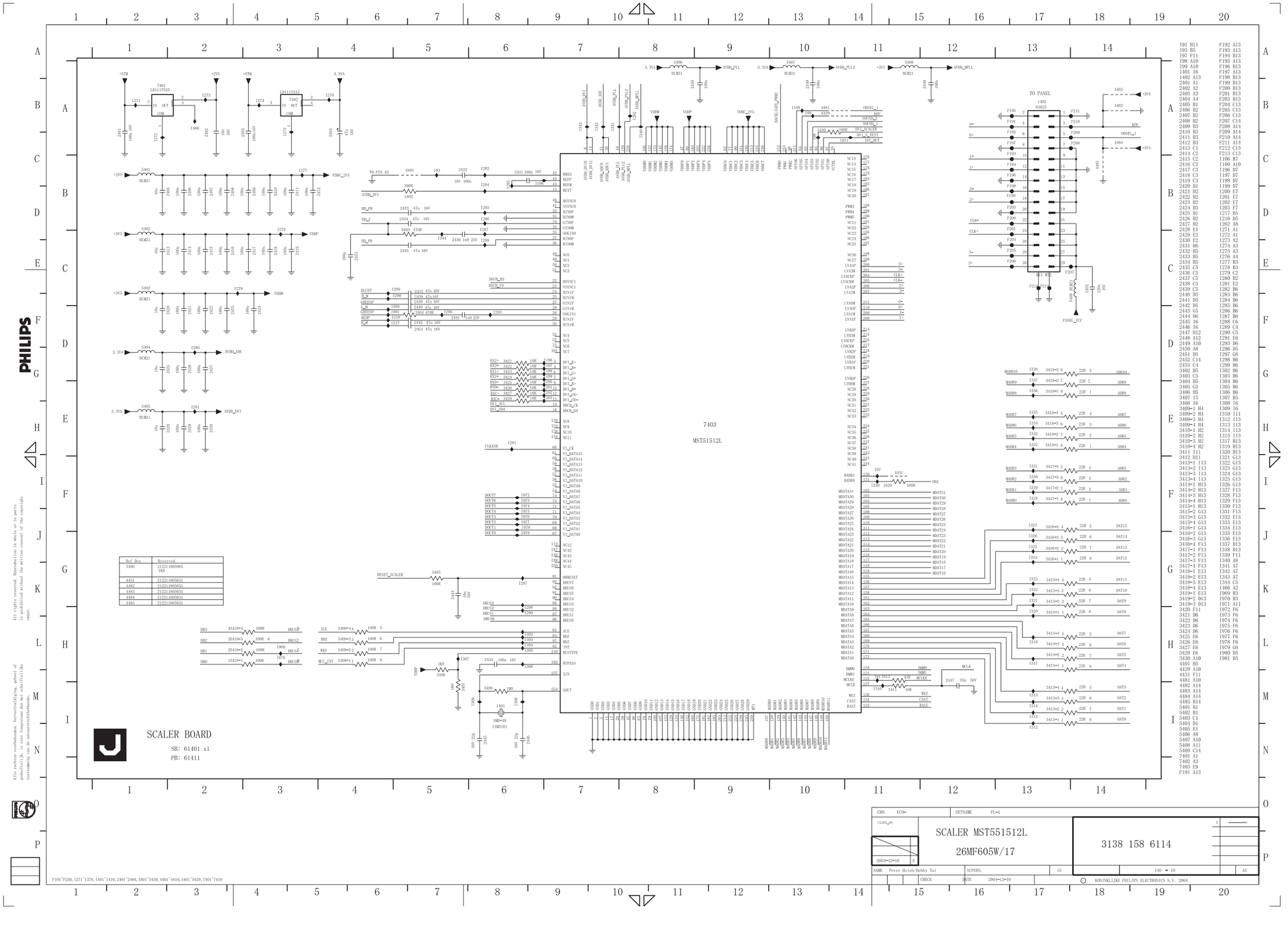
I701~I730, 1351~1399, 2351~2399, 3351~3399, 4351~4399, 5351~5399, 6351~6399, 7351~7399

Scaler Diagram-9



Ref Des	Reserved
2565	202203100074 1n0 16V
3562	2122118056 4K7
3564	2122118056 4K7
3565	2122118056 4K7
3578	2122118056 100R
4530	2122118056
4531	2122118056
4533	2122118056
4534	2122118056
4535	2122118056
4536	2122118056
6521	9339139101

Scaler Diagram-10



Ref. Des	Reserved
3406	2122118605965 TBD
4431	2122118805631
4482	2122118805631
4483	2122118805631
4484	2122118805631
4485	2122118805631

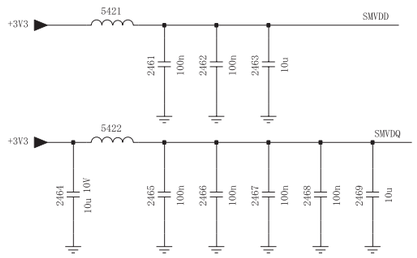
F191~F230, 1271~1370, 1401~1410, 2401~2460, 3401~3430, 4401~4410, 5401~5420, 7401~7410

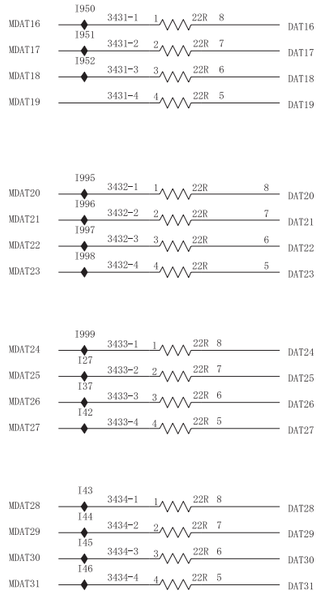
Scaler Diagram-11

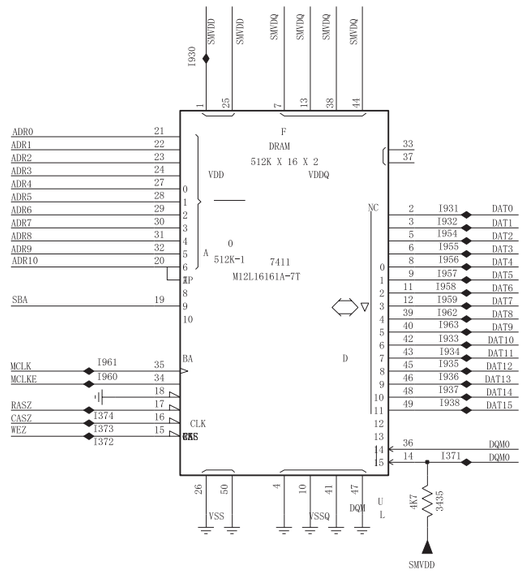
SCALER BOARD

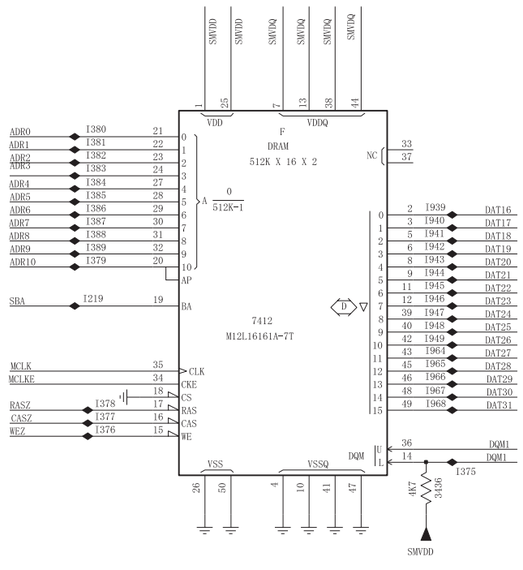
SB: 61401 x1

PB: 61411









I27 E1
I37 E1
I42 E1
I43 E1
I44 F1
I45 F1
I46 F1
2461 A1
2462 A2
2463 A2
2464 B1
2465 B1
2466 B2
2467 B2
2468 B2
2469 B2
3431-1 C1
3431-2 C1
3431-3 C1
3431-4 C1
3432-1 D1
3432-2 D1
3432-3 D1
3432-4 D1
3433-1 E1
3433-2 E1
3433-3 E1
3433-4 E1
3434-1 E1
3434-2 F1
3434-3 F1
3434-4 F1
3435 E5
3436 E9
5421 A1
5422 B1
7411 B4
7412 B7
I219 D7
I371 D5
I372 D4
I373 D4
I374 D4
I375 D9
I376 D7
I377 D7
I378 D7
I379 C7
I380 C7
I381 C7
I382 C7
I383 C7
I384 C7
I385 C7
I386 C7
I387 C7
I388 C7
I389 C7
1930 B4
1931 C5
1932 C5
1933 D5
1934 D5
1935 D5
1936 D5
1937 D5
1938 D5
1939 C9
1940 C9
1941 C9
1942 C9
1943 C9
1944 C9
1945 C9
1946 D9
1947 D9
1948 D9
1949 D9
1950 C1
1951 C1
1952 C1
1954 C5
1955 C5
1956 C5
1957 C5
1958 C5
1959 D5
1960 D4
1961 D4
1962 D5
1963 D5
1964 D9
1965 D9
1966 D9
1967 D9
1968 D9
1995 D1
1996 D1
1997 D1
1998 D1
1999 E1

CHN ECO-		SETNAME FL-1	
CLASS_NO	SDRAM	3138 158 6114	1 -------
2004-12-10 3	26MF605W/17		
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 11	A3
	CHECK DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

1371~1390, 2461~2480, 3431~3450, 5421~5430, 7411~7420

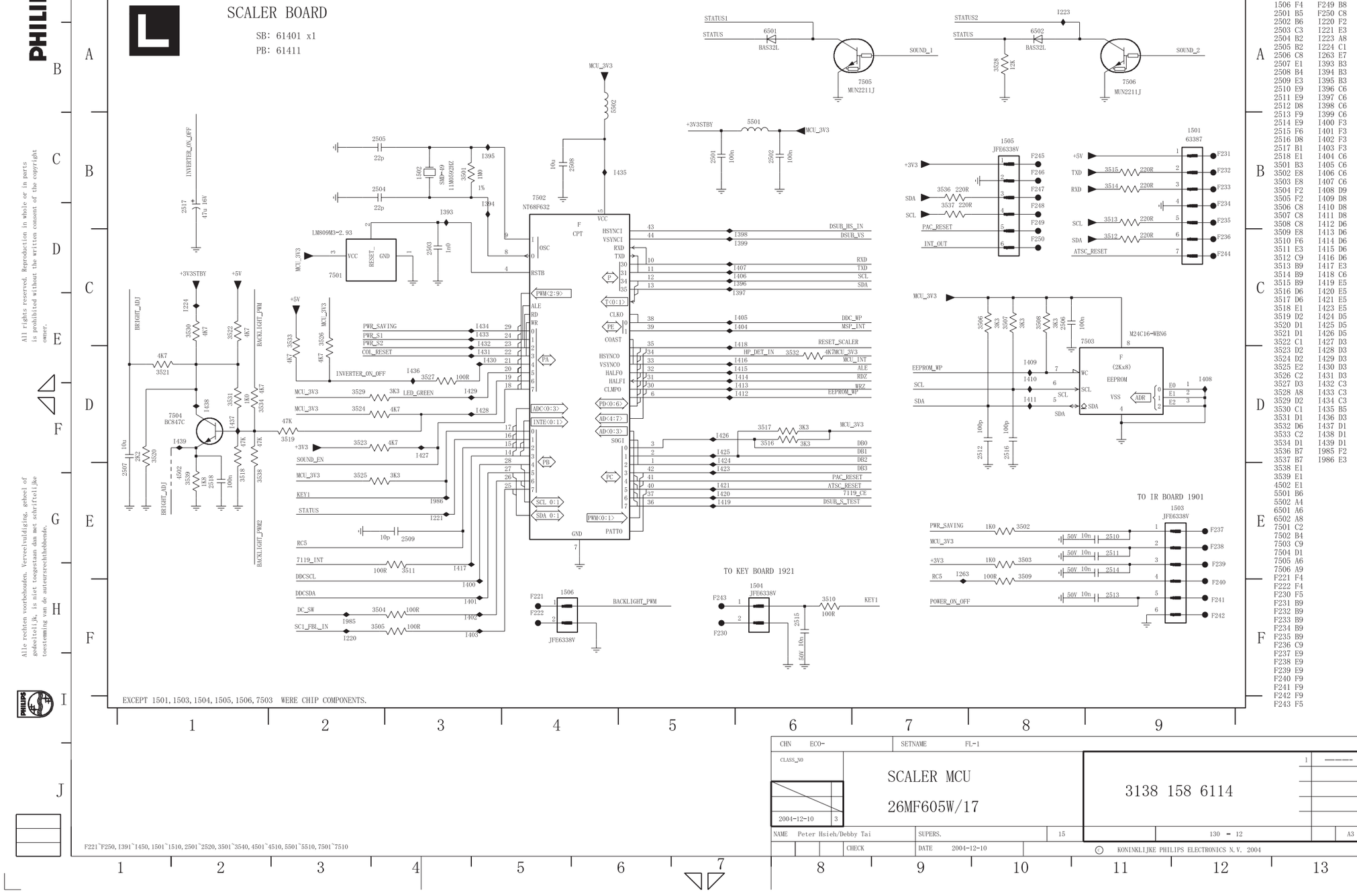
Scaler Diagram-12

PHILIPS

SCALER BOARD

SB: 61401 x1

PB: 61411



EXCEPT 1501, 1503, 1504, 1505, 1506, 7503 WERE CHIP COMPONENTS.

F221~F250, I391~I450, 1501~1510, 2501~2520, 3501~3540, 4501~4510, 5501~5510, 7501~7510

CHN ECO-		SETNAME FL-1	
CLASS_NO	SCALER MCU 26MF605W/17		3138 158 6114
2004-12-10 3			1 ———
NAME Peter Hsieh/Debby Tai	SUPERS. 15		130 - 12 A3
CHECK	DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

Ref Des	Reserved
1505	313816872061 JFE6338V
1506	313816872031 JFE6338V
3520	212211805661 2K2
3531	212211805656 1K0

REF.	CINCH	SCART
3528	N	Y
6501	N	Y
6502	N	Y
7505	N	Y
7506	N	Y

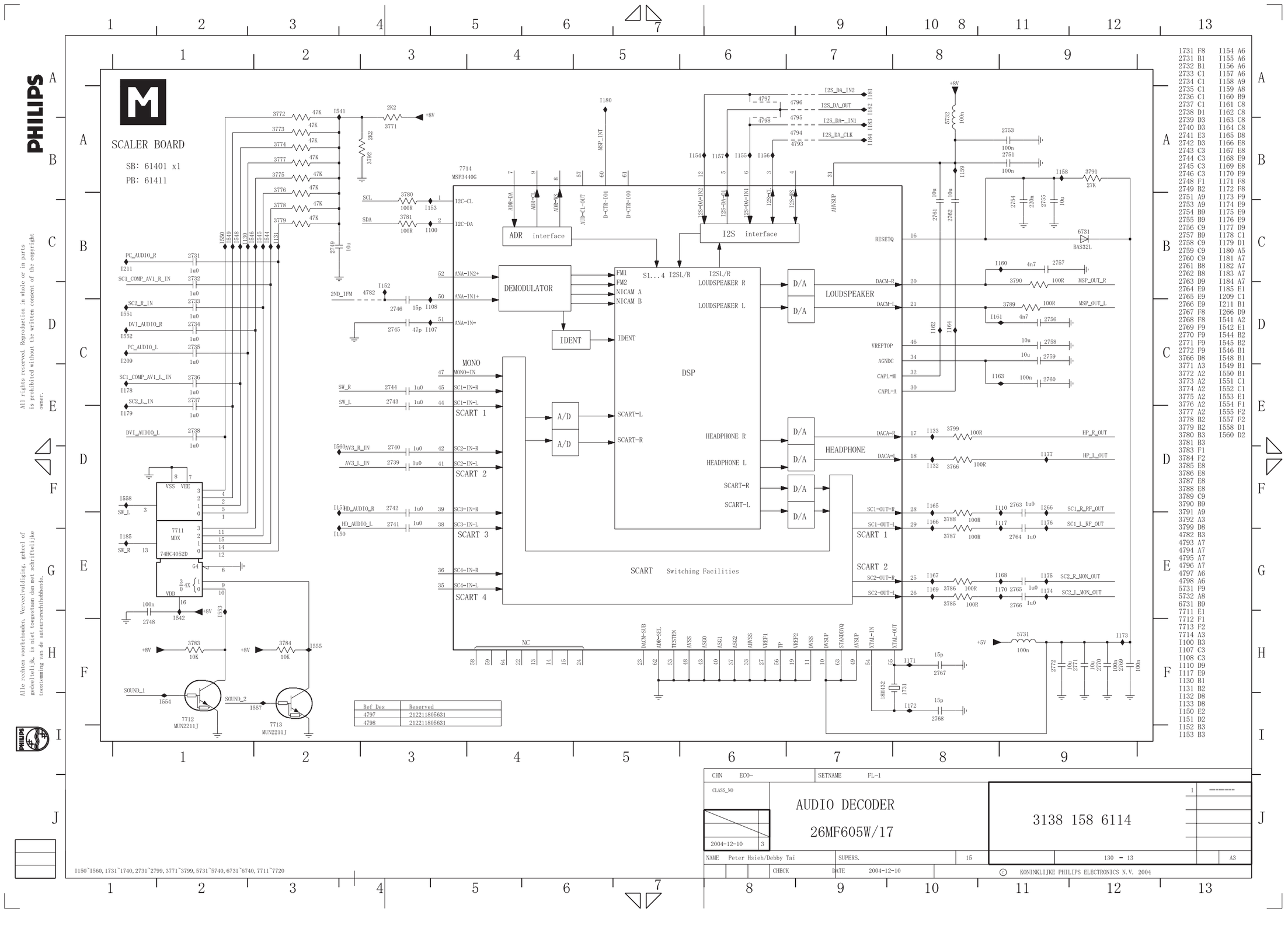
PWM SWITCH		W/O PACIFIC	
REF.	W/PACIFIC	LPL 26″	OTHER
3534	Y	N	N
3538	N	Y	N
3519	N	N	Y
2507	Y	N	Y
3521	Y	N	Y
3539	OR	1K8	OR
4502	N	Y	N
2518	N	Y	N

BRIGHT MAX VOLTAGE		
REF.	OTHERS	CPT
3522	N	Y
3530	Y	N

INVERTER ON/OFF		
REF.	26″	32″
3526	N	Y
3533	Y	N
2517	N	Y

1501 B9 F244 C9
1502 B3 F245 B8
1503 E9 F246 B8
1504 F6 F247 B8
1505 B8 F248 B8
1506 F4 F249 B8
2501 B5 F250 C8
2502 B6 1220 F2
2503 C3 1221 E3
2504 B2 1223 A8
2505 B2 1224 C1
2506 C8 1263 E7
2507 E1 1393 B3
2508 B4 1394 B3
2509 E3 1395 B3
2510 E9 1396 C6
2511 E9 1397 C6
2512 D8 1398 C6
2513 F9 1399 C6
2514 E9 1400 F3
2515 F6 1401 F3
2516 D8 1402 F3
2517 B1 1403 F3
2518 E1 1404 C6
3501 B3 1405 C6
3502 E8 1406 C6
3503 E8 1407 C6
3504 F2 1408 D9
3505 F2 1409 D8
3506 C8 1410 D8
3507 C8 1411 D8
3508 C8 1412 D6
3509 E8 1413 D6
3510 F6 1414 D6
3511 E3 1415 D6
3512 C9 1416 D6
3513 B9 1417 E3
3514 B9 1418 C6
3515 B9 1419 E5
3516 D6 1420 E5
3517 D6 1421 E5
3518 E1 1423 E5
3519 D2 1424 D5
3520 D1 1425 D5
3521 D1 1426 D5
3522 C1 1427 D3
3523 D2 1428 D3
3524 D2 1429 D3
3525 E2 1430 D3
3526 C2 1431 D3
3527 D3 1432 C3
3528 A8 1433 C3
3529 D2 1434 C3
3530 C1 1435 B5
3531 D1 1436 D3
3532 D6 1437 D1
3533 C2 1438 D1
3534 D1 1439 D1
3536 B7 1985 F2
3537 B7 1986 E3
3538 E1
3539 E1
4502 E1
5501 B6
5502 A4
6501 A6
6502 A8
7501 C2
7502 B4
7503 C9
7504 D1
7505 A6
7506 A9
F221 F4
F222 F4
F230 F5
F231 B9
F232 B9
F233 B9
F234 B9
F235 B9
F236 C9
F237 E9
F238 E9
F239 E9
F240 F9
F241 F9
F242 F9
F243 F5

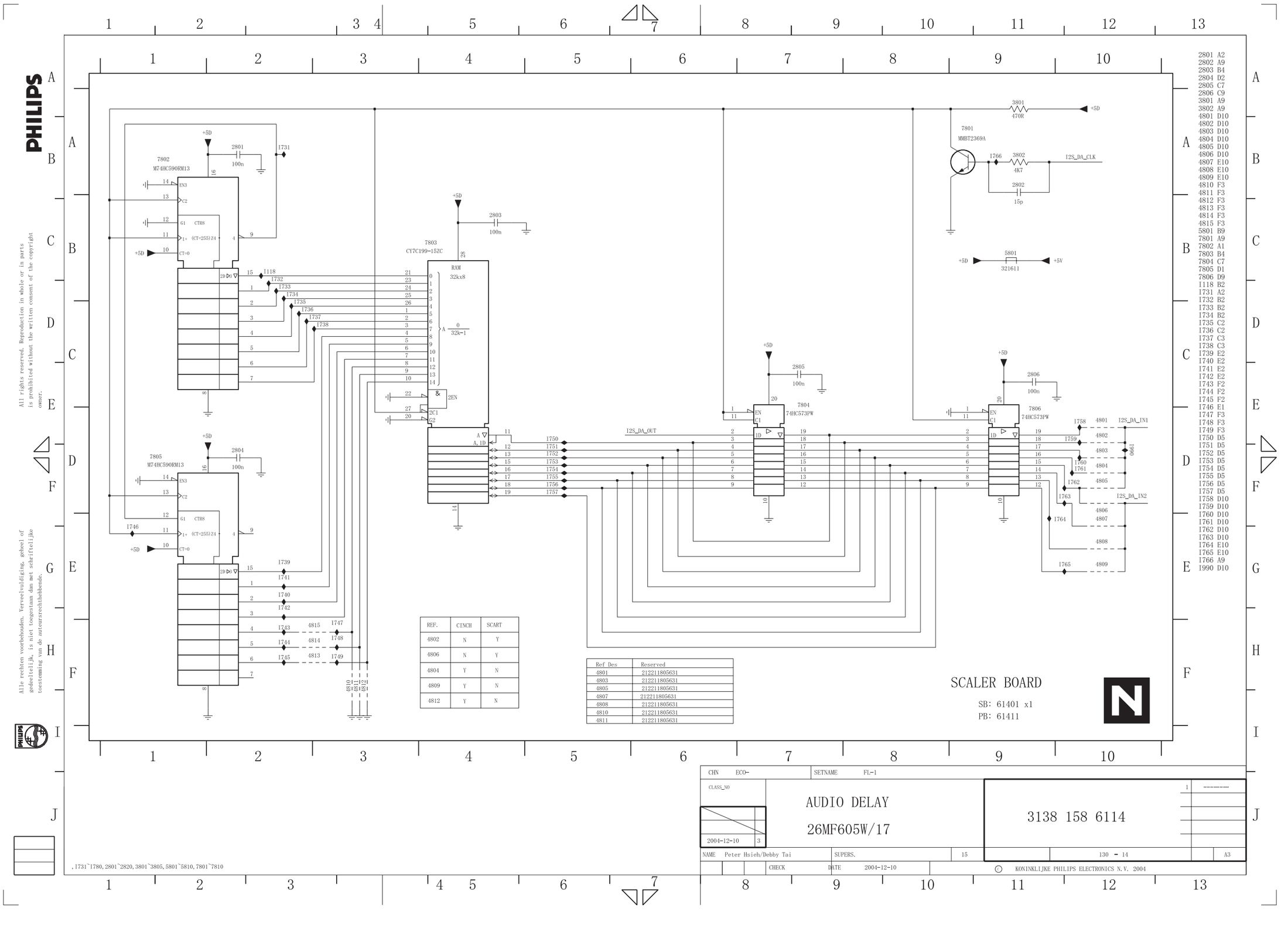
Scaler Diagram-13



Ref_Des	Reserved
4797	2122111805631
4798	2122111805631

1150~1560, 1731~1740, 2731~2799, 3771~3799, 5731~5740, 6731~6740, 7711~7720

CHN ECO-	SETNAME FL-1		
CLASS_NO	AUDIO DECODER 26MF605W/17	3138 158 6114	1 -------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 13	A3
CHECK	DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	



REF.	CINCH	SCART
4802	N	Y
4806	N	Y
4804	Y	N
4809	Y	N
4812	Y	N

Ref Des	Reserved
4801	212211805631
4803	212211805631
4805	212211805631
4807	212211805631
4808	212211805631
4810	212211805631
4811	212211805631

2801 A2
2802 A9
2803 B4
2804 D2
2805 C7
2806 C9
3801 A9
3802 A9
4801 D10
4802 D10
4803 D10
4804 D10
4805 D10
4806 D10
4807 E10
4808 E10
4809 E10
4810 F3
4811 F3
4812 F3
4813 F3
4814 F3
4815 F3
5801 B9
7801 A9
7802 A1
7803 B4
7804 C7
7805 D1
7806 D9
1118 B2
1731 A2
1732 B2
1733 B2
1734 B2
1735 C2
1736 C2
1737 C3
1738 C3
1739 E2
1740 E2
1741 E2
1742 E2
1743 F2
1744 F2
1745 F2
1746 E1
1747 F3
1748 F3
1749 F3
1750 D5
1751 D5
1752 D5
1753 D5
1754 D5
1755 D5
1756 D5
1757 D5
1758 D10
1759 D10
1760 D10
1761 D10
1762 D10
1763 D10
1764 E10
1765 E10
1766 A9
1990 D10

, 1731~1780, 2801~2820, 3801~3805, 5801~5810, 7801~7810

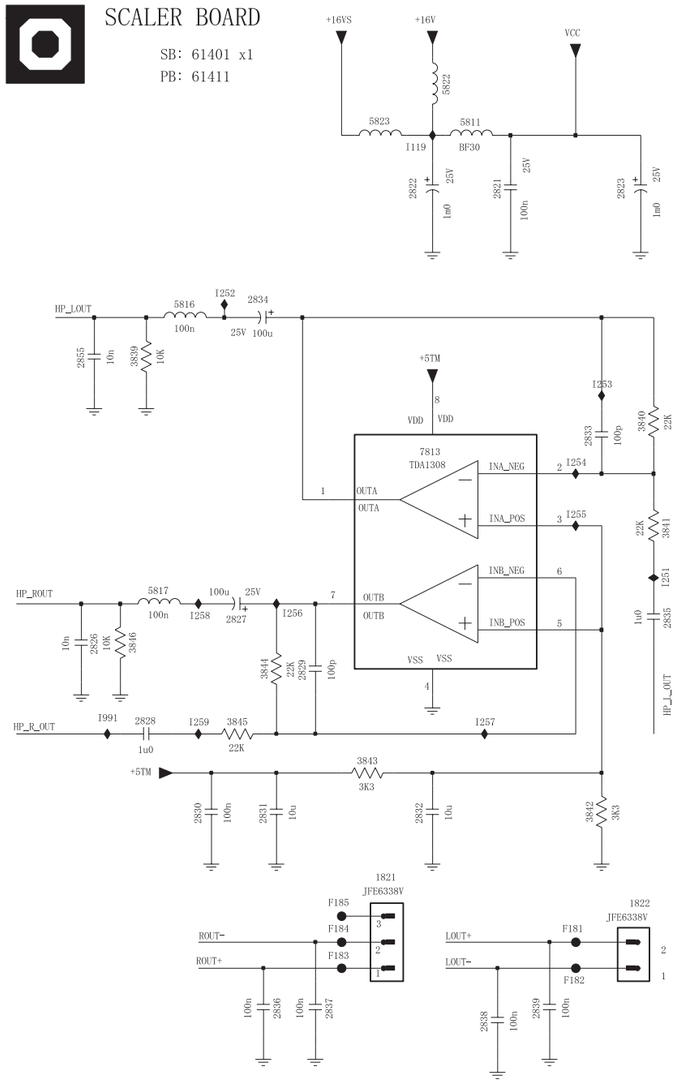
CHN ECO-		SETNAME FL-1	
CLASS_NO	AUDIO DELAY 26MF605W/17	3138 158 6114	1 --------
2004-12-10 3			
NAME Peter Hsieh/Debby Tai	SUPERS. 15	130 - 14	A3
CHECK	DATE 2004-12-10	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

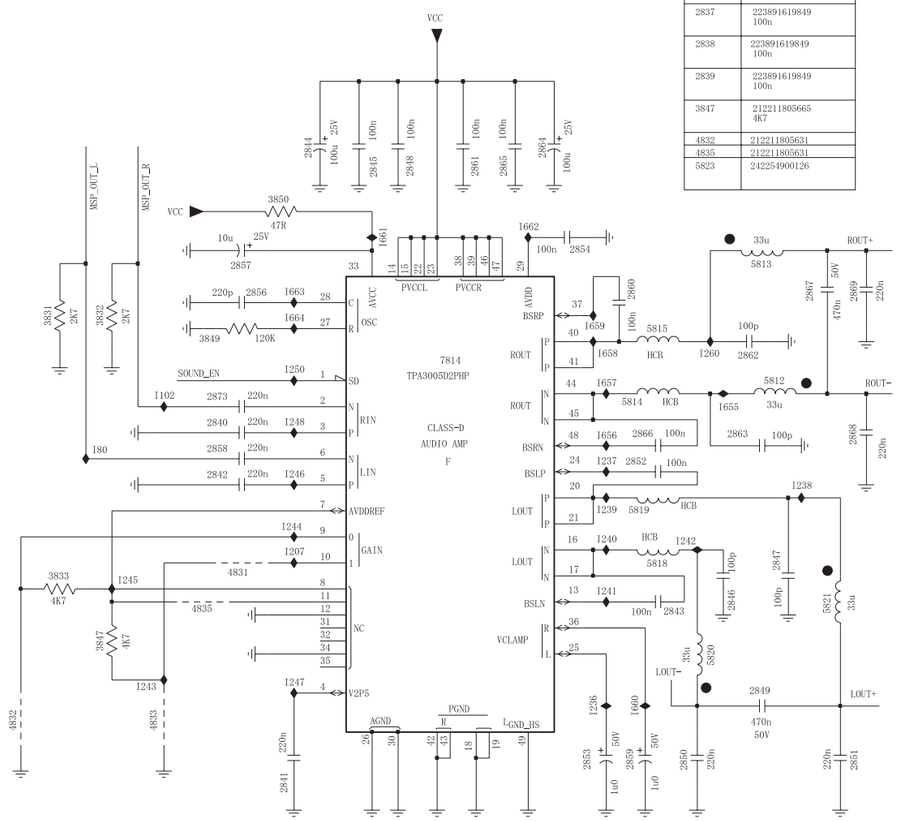
Scaler Diagram-15

SCALER BOARD

SB: 61401 x1

PB: 61411





Ref_Des	Reserved
2836	223891619849 100n
2837	223891619849 100n
2838	223891619849 100n
2839	223891619849 100n
3847	212211805665 4K7
4832	212211805631
4835	212211805631
5823	242254900126

REF.	26"	32"
7814	TPA3005	TPA3008
3831	2k7	6k8
3832	2k7	6k8

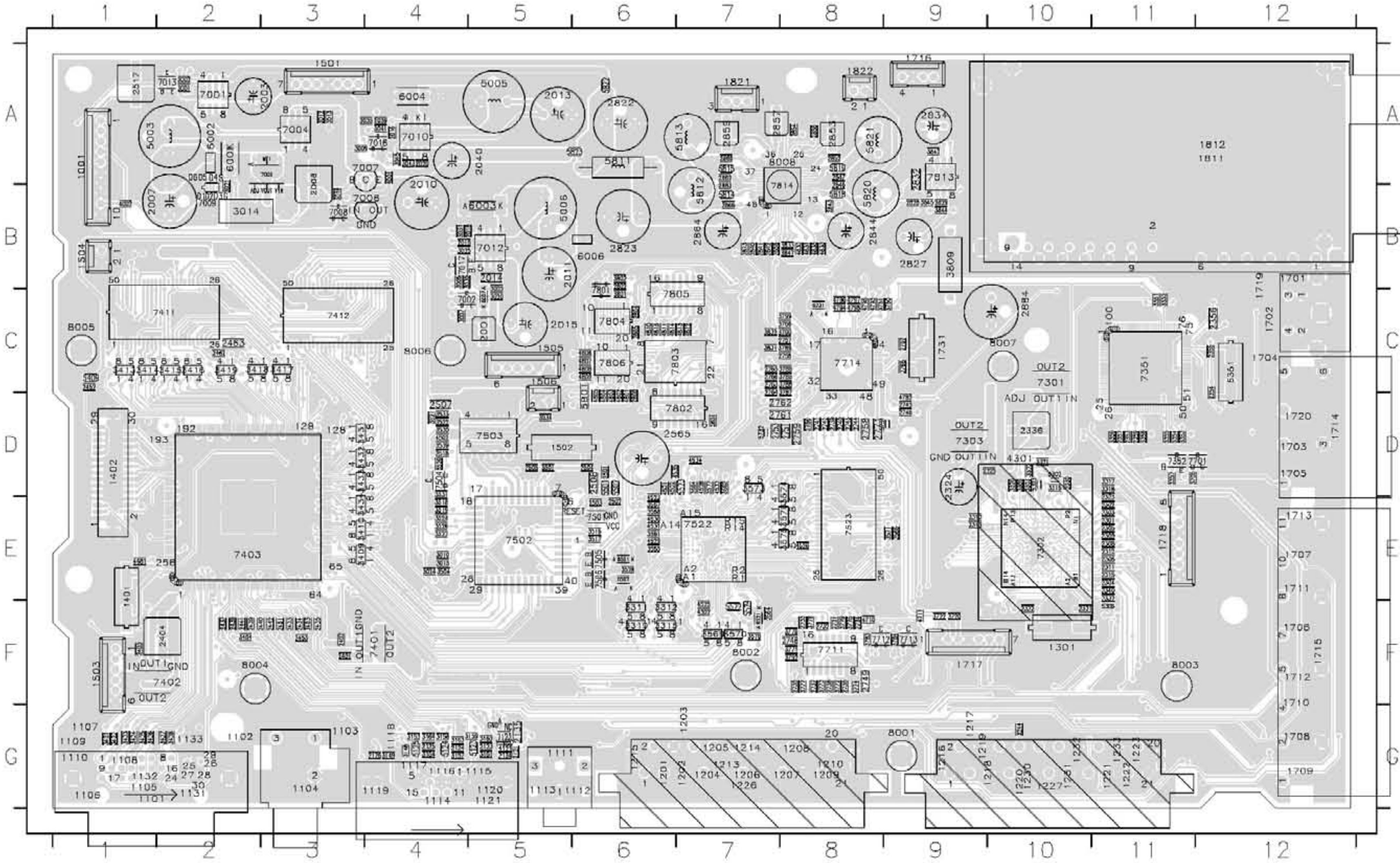
EXCEPT 1821, 1822, 2822, 2823, 2827, 2834, 5811, 5812, 5813, 5820, 5821 WERE CHIP COMPONENTS.

F181~F190, I221~I680, I801~I810, 2821~2880, 3831~3860, 5811~5830, 7811~7820

I80 D5
1821 E2
1822 E4
2821 B3
2822 B3
2823 B4
2826 D1
2827 D2
2828 E1
2829 D2
2830 E1
2831 E2
2832 E3
2833 C4
2834 B2
2835 D4
2836 F2
2837 F2
2838 F3
2839 F3
2840 C6
2841 E6
2842 D6
2843 D9
2844 B7
2845 B7
2846 D9
2847 D9
2848 B7
2849 E9
2850 E9
2851 E9
2852 D8
2853 E8
2854 B8
2855 B1
2856 C6
2857 C6
2858 D6
2859 E8
2860 C8
2861 B7
2862 C9
2863 C9
2864 B8
2865 B8
2866 D8
2867 C9
2868 C9
2869 C9
2873 C6
3831 C5
3832 C5
3833 D5
3839 B1
3840 C4
3841 C4
3842 E4
3843 E2
3844 D2
3845 E2
3846 D1
3847 E5
3849 C6
3850 B6
4831 D6
4832 E5
4833 E6
4835 D6
5811 A3
5812 C9
5813 C9
5814 C8
5815 C9
5816 B1
5817 D1
5818 D9
5819 D8
5820 E9
5821 D9
5822 A3
5823 A2
7813 C3
7814 C7
F181 F3
F182 F3
F183 F2
F184 F2
F185 F2
1102 C6
I119 A3
I207 D7
I236 E8
I237 D8
I238 D8
I239 D8
I240 D8
I241 D8
I242 D9
I243 E6
I244 D6
I245 D6
I246 D6
I247 E7
I248 C7
I250 C7
I251 D8
I252 D2
I253 E4
I254 E8
I255 D8
I256 C8
I257 C8
I258 D1
I259 D1
I260 C9
I655 C9
I656 C8
I657 C8
I658 C8
I659 C8
I660 E8
I661 B7
I662 B8
I663 C7
I664 C7
I991 D1

CHN ECO-		SETNAME FL-1	
CLASS_NO	AUDIO AMP 26MF605W/17		3138 158 6114
2004-12-10 3			1 --------
NAME Peter Hsieh/Debby Tai	SUPERS.	15	130 - 15 A3
CHECK	DATE 2004-12-13	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

PHILIPS



1001	A1
1101	G1
1104	G3
1111	G5
1114	G4
1226	G7
1227	G10
1301	F10
1401	E1
1402	D1
1501	A3
1502	D5
1503	F1
1504	B1
1505	C5
1506	C5
1714	D12
1715	F12
1716	A9
1717	F9
1718	E11
1719	B12
1731	C9
1811	A12
1812	A12
1821	A7
1822	A8
2001	C5
2003	A3
2007	B1
2008	A3
2010	A4
2011	B5
2013	A5
2014	B5
2015	C5
2016	A4
2018	B4
2019	B4
2020	A4
2039	A4
2040	A5
2121	G5
2123	G5
2124	G4
2125	G4
2126	G4
2134	G5
2135	G5
2301	E11
2302	E11
2303	E11
2304	E11
2305	E11
2306	E11
2308	E11
2309	E11
2311	E11
2312	E11
2315	E11
2321	F10
2322	F10
2323	E11
2324	D9
2325	D10
2330	D10
2332	E11
2336	D10
2340	E11
2353	D11
2354	D12
2355	C12
2356	C12
2357	D11
2359	D11
2401	F3
2402	F3
2403	F1
2404	E2
2433	F3
2434	F3
2435	F3
2437	F2
2438	F2
2439	F2
2440	F2
2441	F2
2442	F3

2451	F3
2452	C1
2453	F3
2462	C2
2463	C2
2501	D6
2502	E6
2503	E6
2504	D6
2505	D5
2507	D4
2508	D6
2517	A1
2518	D4
2564	F7
2565	D7
2566	E9
2731	F8
2732	F8
2733	F8
2734	F8
2735	F8
2736	F8
2737	F8
2738	F8
2739	D8
2740	D8
2741	D8
2742	D8
2743	D8
2744	D8
2745	D9
2746	D9
2748	F8
2749	F8
2751	D8
2753	D7
2756	C8
2757	C8
2758	D8
2759	D8
2760	D8
2761	D8
2762	D8
2763	C7
2764	C7
2765	C7
2766	C7
2767	C9
2768	C9
2771	D8
2801	D7
2802	B6
2804	C6
2805	C6
2806	D6
2822	A6
2823	B6
2827	B9
2828	B9
2829	B9
2832	A9
2834	A9
2840	B7
2841	B7
2842	B7
2843	B8
2844	B8
2846	B8
2847	A8
2852	A8
2853	A8
2854	A8
2856	A8
2857	A7
2858	B7
2859	A7
2860	A7
2862	A7
2863	B7
2864	B7
2866	B7
2873	B7
2884	C10
3001	A2
3002	A2
3005	B5
3006	B4

3007	C4
3009	A3
3010	E4
3012	A3
3013	A3
3014	B2
3015	E4
3018	B3
3020	C5
3021	B2
3024	E4
3025	B4
3030	B4
3031	B4
3035	A4
3041	A4
3043	A4
3045	A4
3146	C4
3149	C4
3153	G4
3154	G4
3157	C4
3158	G4
3159	G5
3161	G5
3162	G5
3163	G4
3164	G4
3244	G10
3303	D10
3309	D10
3310	E9
3311	E6
3312	F6
3313	E9
3315	F6
3316	D10
3317	D11
3318	D11
3319	F6
3320	D10
3321	D10
3322	D10
3351	C11
3352	C11
3353	D11
3354	D11
3355	D11
3356	D11
3357	D11
3358	D11
3403	E3
3404	E2
3409	E3
3410	E3
3413	C1
3414	C1
3415	C2
3416	C2
3417	C3
3418	C2
3419	C2
3421	G1
3422	G1
3423	G1
3424	G1
3425	G1
3426	G1
3427	G2
3428	G2
3431	D3
3432	D3
3433	D3
3434	E3
3501	D5
3504	E4
3516	E6
3517	E6
3518	E4
3519	E4
3520	D4
3521	D4
3522	D4
3524	E4
3526	E4
3527	E4
3528	E6

3530	D4
3531	D4
3533	D4
3534	D5
3539	D4
3561	E6
3562	D7
3564	D7
3565	E6
3567	E6
3568	E6
3569	F7
3570	F7
3571	E9
3573	D7
3574	D8
3575	E8
3576	E8
3577	D7
3578	F7
3705	D11
3720	F9
3722	F9
3766	C8
3771	F8
3772	F8
3773	F8
3774	F8
3775	F8
3776	F8
3777	F8
3778	F8
3779	F8
3780	C8
3781	C8
3783	F8
3784	F9
3785	C8
3786	C8
3787	C8
3788	C8
3789	C8
3790	C8
3792	F8
3799	C8
3801	C6
3802	B6
3809	B9
3831	C7
3832	C7
3833	B8
3842	A9
3844	B9
3845	B9
3847	B8
4001	A4
4002	B1
4121	G5
4301	D10
4302	F7
4481	E1
4502	D4
4521	D6
4522	D6
4523	E6
4525	E7
4526	E8
4528	D7
4529	E6
4530	E6
4531	E6
4532	D7
4534	D7
4535	D6
4710	F8
4711	F9
4782	D9
4793	C8
4794	C8
4795	C8
4796	C8
4797	C8
4798	C8
4801	D6
4802	D6
4803	D6
4804	D6
4805	D6

4806	C6
4807	C6
4808	C6
4809	C6
4810	C6
4811	C6
4812	C7
4813	C7
4814	C6
4815	C6
4831	B8
4832	B8
4833	B8
4835	B8
5003	A1
5005	A5
5006	B5
5123	G5
5124	G4
5125	G4
5302	D10
5303	D10
5306	E12
5351	C12
5409	C1
5501	D6
5502	D6
5522	F7
5523	D7
5524	F7
5731	D8
5732	D7
5801	D6
5811	A6
5812	B7
5813	A7
5814	B7
5815	A7
5818	B8
5819	A8
5820	B8
5821	A8
5822	A6
5823	A6
6001	A2
6002	A2
6003	B5
6004	A4
6006	B6
6007	C5
6501	E6
6502	E6
6521	F7
6731	C8
7001	A2
7002	C4
7004	A3
7005	A3
7006	B4
7007	A4
7008	B3
7009	B2
7010	A4
7012	B5
7013	A2
7016	A4
7017	B4
7122	G5
7301	C10
7302	E10
7303	D9
7351	C11
7352	D11
7401	F4
7402	F2
7403	E2
7411	C2
7412	C3
7501	E6
7502	E5
7503	D5
7504	D4
7505	E6
7506	E6
7522	E7
7523	E8
7701	D12
7711	F8

7712	F8
7713	F9
7714	C8
7801	C6
7802	D7
7803	C6
7804	C6
7805	C6
7806	C6
7813	A9
7814	B8
8001	G9
8002	F7
8003	F11
8004	F2
8005	C1
8006	C4
8007	C10
8008	A8

CN: ECO- | MMD FL1

CLASS NO 3XX000

Scaler Board

FL1 26MF605W

2004-12-13

3138 103 6140

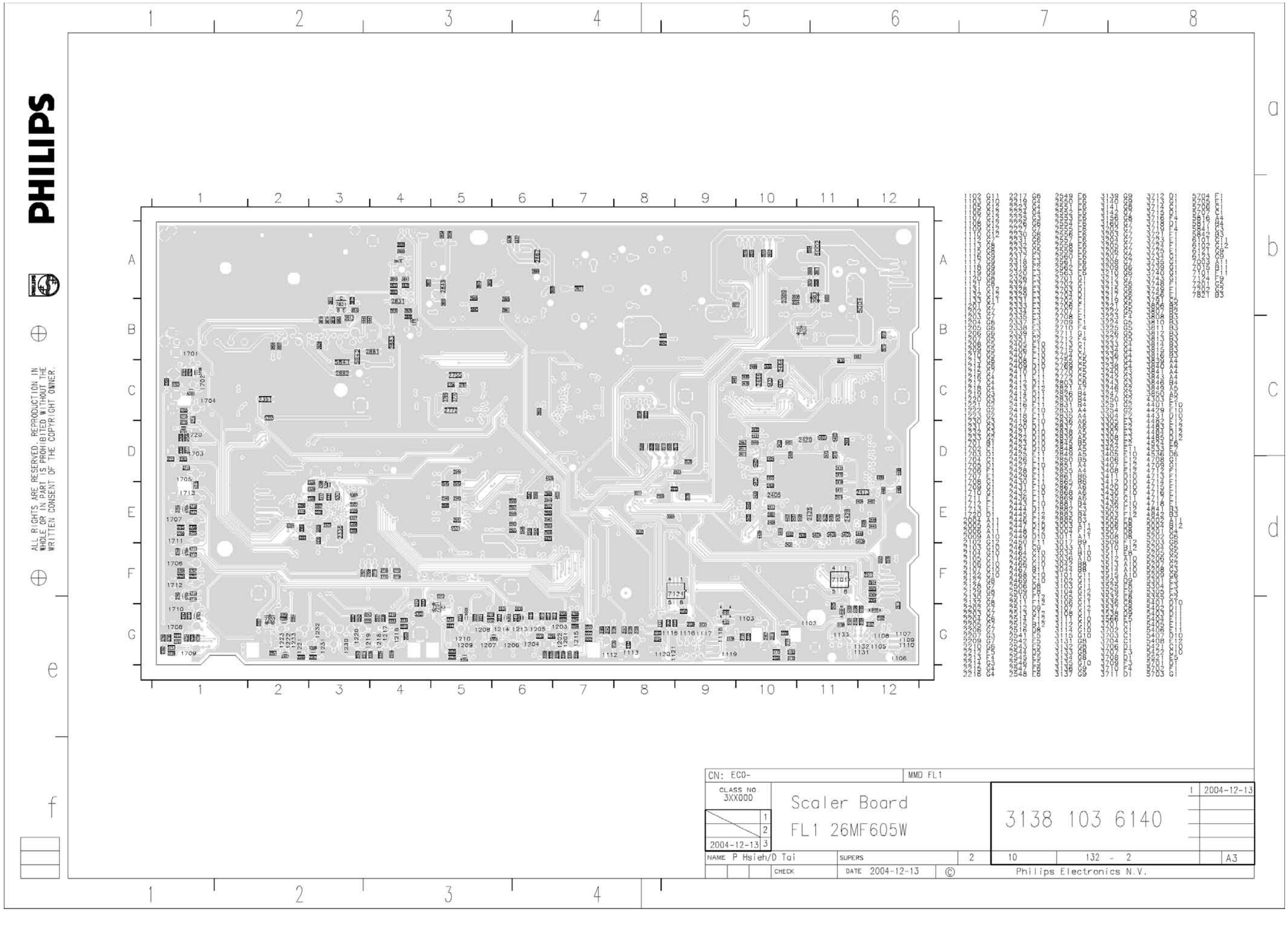
1 2004-12-13

NAME P Hsieh/D Tai | SUPERS | 2 | 10 | 132 - 1 | A3

CHECK | DATE 2004-12-13 | © Philips Electronics N.V.

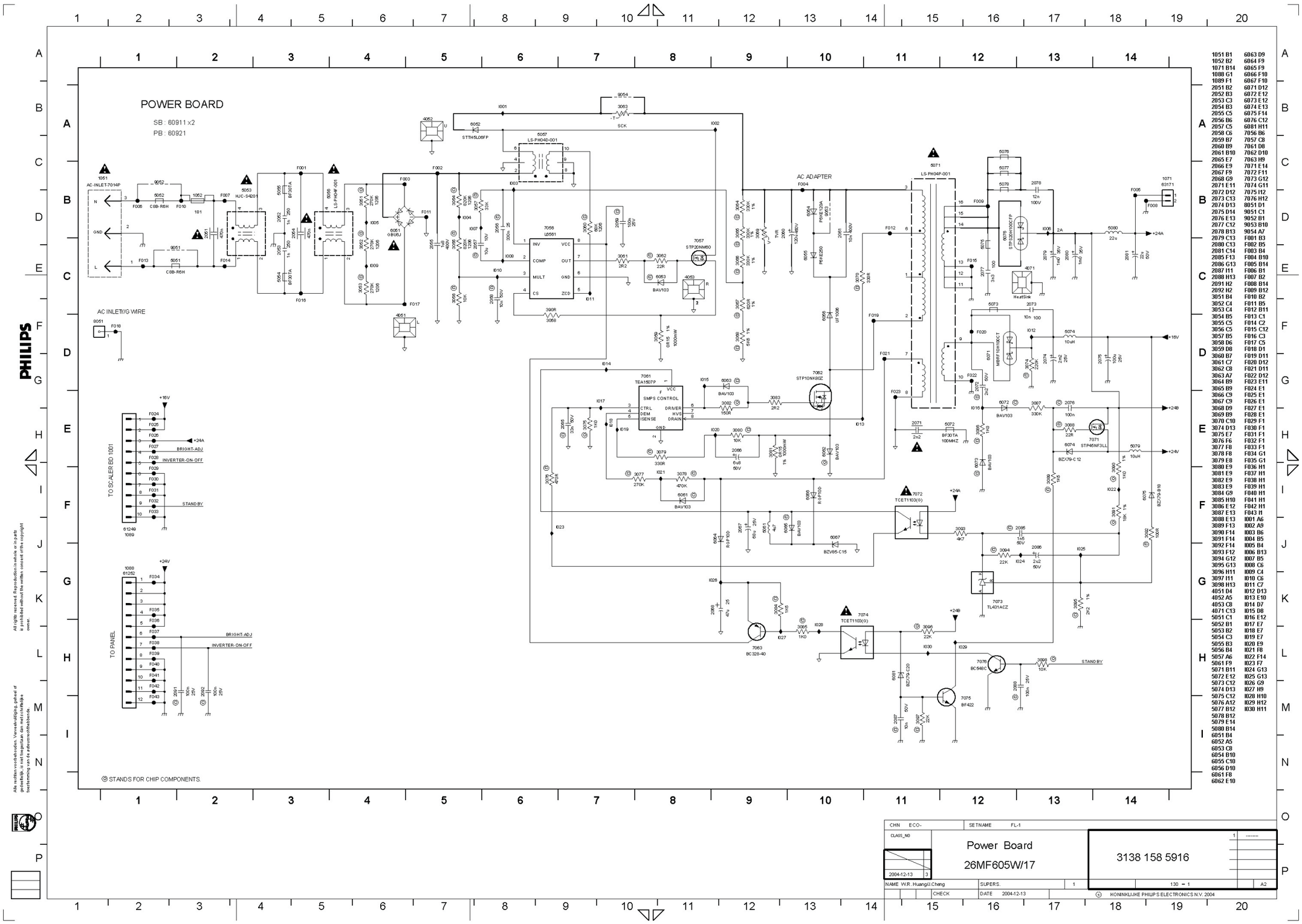
Go to cover page

Scaler Board C.B.A.-2



CN: ECO-		MMD FL1	
CLASS NO 3XX000	Scaler Board FL1 26MF605W	3138 103 6140	1 2004-12-13
2004-12-13 3			
NAME P Hsieh/D Tai	SUPERS 2	10 132 - 2	A3
CHECK	DATE 2004-12-13	© Philips Electronics N.V.	

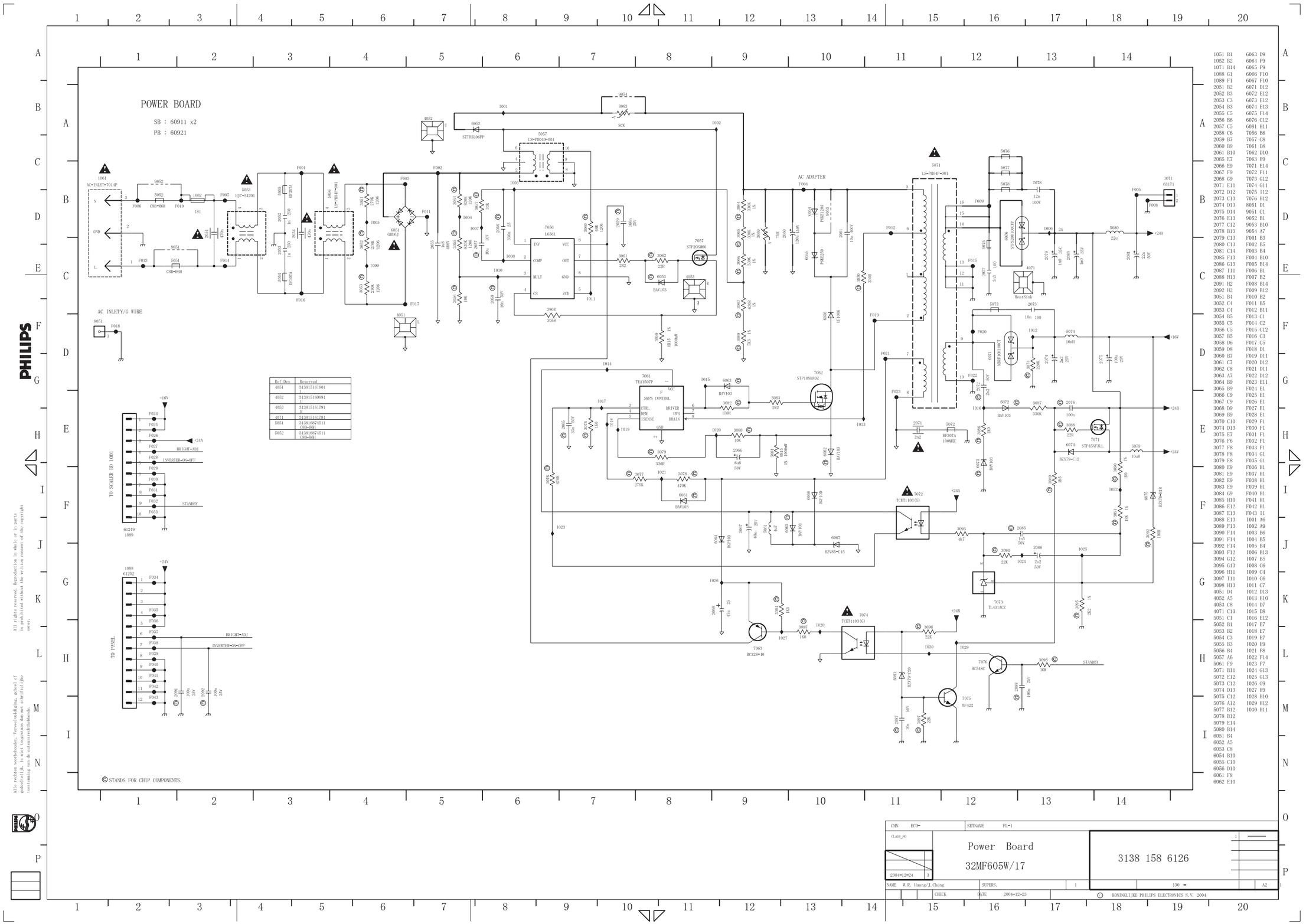
Power Diagram(26MF605W/17)



1051 B1 6063 D9
1052 B2 6064 F9
1071 B14 6065 F9
1088 G1 6066 F10
1089 F1 6067 F10
2051 B2 6071 D12
2052 B3 6072 E12
2053 C3 6073 E12
2054 B3 6074 E13
2055 C5 6075 F14
2056 B6 6076 C12
2057 C5 6081 H11
2058 C6 7056 B6
2059 B7 7057 C8
2060 B9 7061 D8
2061 B10 7062 D10
2065 E7 7063 H9
2066 E9 7071 E14
2067 F9 7072 F11
2068 G9 7073 G12
2071 E11 7074 G11
2072 D12 7075 I12
2073 C13 7076 H12
2074 D13 8051 D1
2075 D14 9051 C1
2076 E13 9052 B1
2077 C12 9053 B10
2078 B13 9054 A7
2079 C13 F001 B3
2080 C13 F002 B5
2081 C14 F003 B4
2085 F13 F004 B10
2086 G13 F005 B14
2087 H1 F006 B1
2088 H13 F007 B2
2091 H2 F008 B14
2092 H2 F009 B12
3051 B4 F010 B2
3052 C4 F011 B5
3053 C4 F012 B11
3054 B5 F013 C1
3055 C5 F014 C2
3056 C5 F015 C12
3057 B5 F016 C3
3058 D6 F017 C5
3059 D8 F018 D1
3060 B7 F019 D11
3061 C7 F020 D12
3062 C8 F021 D11
3063 A7 F022 D12
3064 B9 F023 E11
3065 B9 F024 E1
3066 C9 F025 E1
3067 C9 F026 E1
3068 D9 F027 E1
3069 B9 F028 E1
3070 C10 F029 F1
3074 D13 F030 F1
3075 E7 F031 F1
3076 F6 F032 F1
3077 F8 F033 F1
3078 F8 F034 G1
3079 E8 F035 G1
3080 E9 F036 H1
3081 E9 F037 H1
3082 E9 F038 H1
3083 E9 F039 H1
3084 G9 F040 H1
3085 H10 F041 H1
3086 E12 F042 H1
3087 E13 F043 I1
3088 E13 I001 A6
3089 F13 I002 A9
3090 F14 I003 B6
3091 F14 I004 B5
3092 F14 I005 B4
3093 F12 I006 B13
3094 G12 I007 B5
3095 G13 I008 C6
3096 H11 I009 C4
3097 H11 I010 C6
3098 H13 I011 C7
4051 D4 I012 D13
4052 A5 I013 E10
4053 C8 I014 D7
4071 C13 I015 D8
5051 C1 I016 E12
5052 B1 I017 E7
5053 B2 I018 E7
5054 C3 I019 E7
5055 B3 I020 E9
5056 B4 I021 F8
5057 A6 I022 F14
5061 F9 I023 F7
5071 B11 I024 G13
5072 E12 I025 G13
5073 C12 I026 G9
5074 D13 I027 H9
5075 C12 I028 H10
5076 A12 I029 H12
5077 B12 I030 H11
5078 B12
5079 E14
5080 B14
6051 B4
6052 A5
6053 C8
6054 B10
6055 C10
6056 D10
6061 F8
6062 E10

CHN ECO-	SETNAME FL-1		
CLASS_NO	Power Board 26MF605W/17	3138 158 5916	1 ------
2004-12-13 3	NAME W.R. Huang/J.Cheng	SUPERS. 1	130 – 1 A2
	CHECK	DATE 2004-12-13	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004

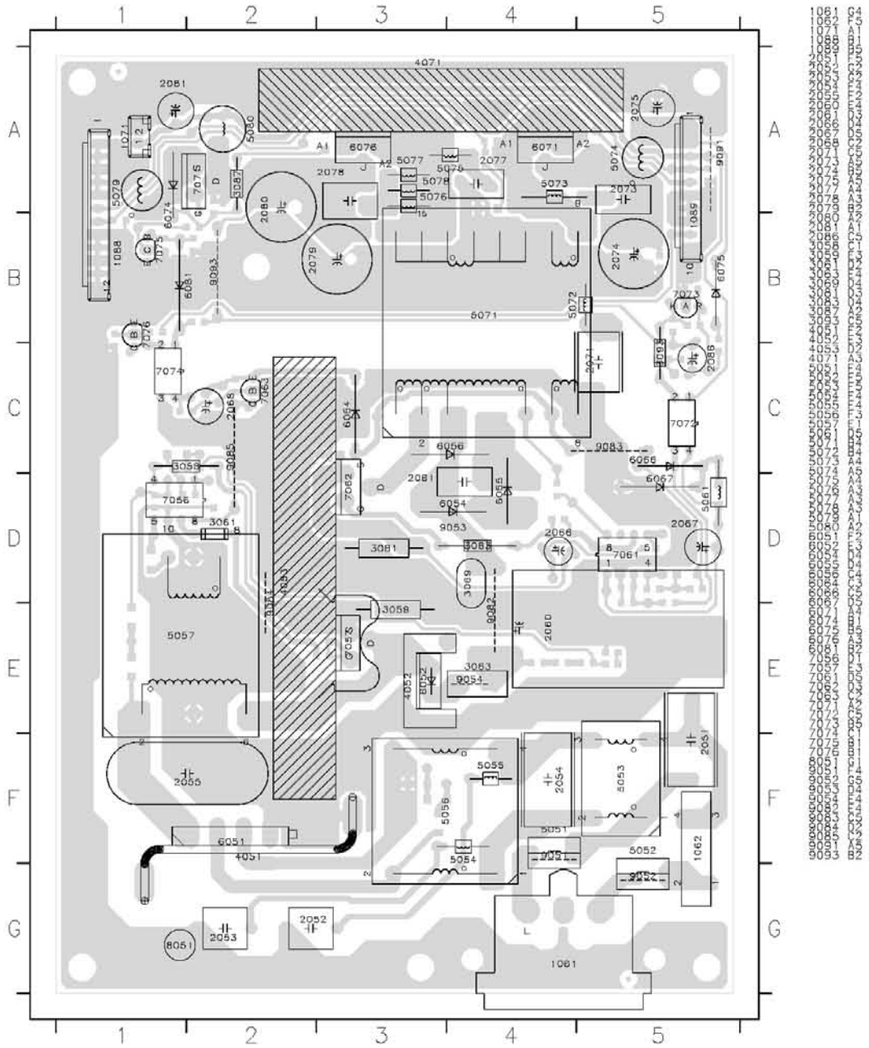
Power Diagram(32MF605W/17)



Ref Des	Reserved
6051	313815161801
6052	313815160891
6053	313815161791 H
6071	313815161781
5051	313816874511 CSB-08H
5052	313816874511 CSB-09H

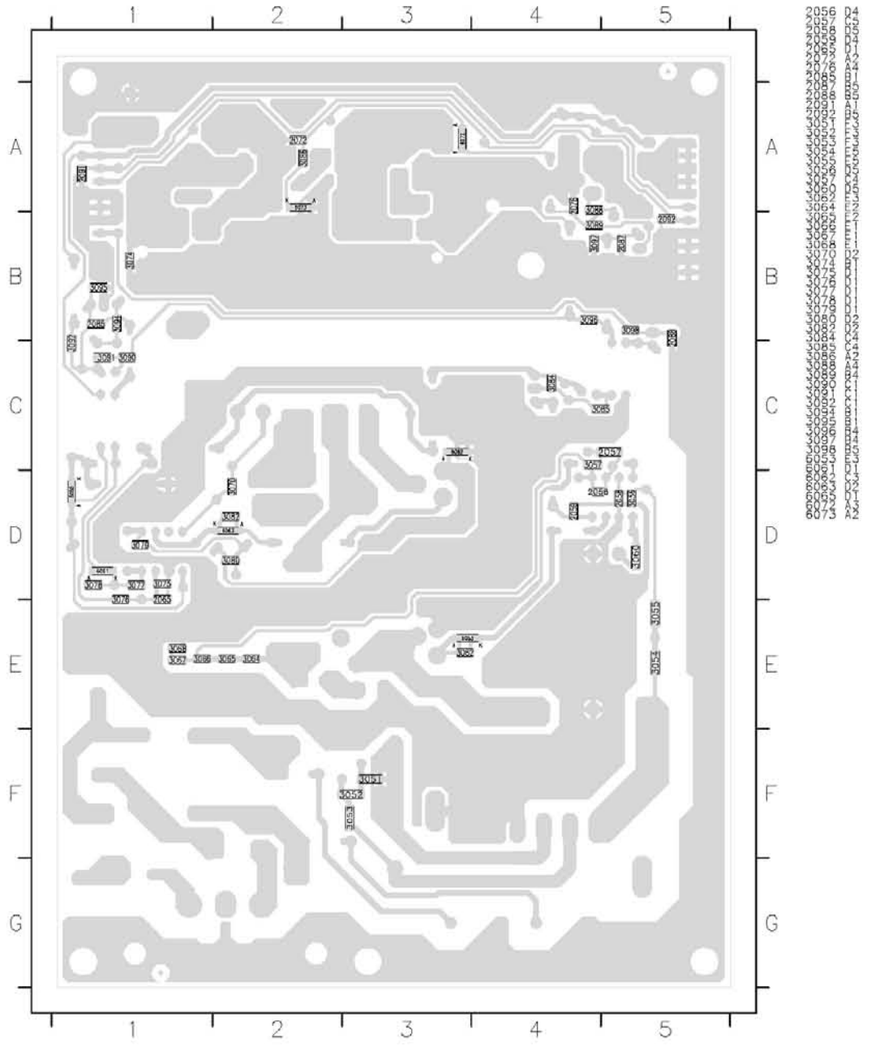
1051 B1 6063 D9
1052 B2 6064 F9
1071 B14 6065 F9
1088 G1 6066 F10
1089 F1 6067 F10
2051 B2 6071 D12
2052 B3 6072 E12
2053 C3 6073 E12
2054 B3 6074 E13
2055 C5 6075 F14
2056 B6 6076 C12
2057 C5 6081 H11
2058 C6 7056 B6
2059 B7 7057 C8
2060 B9 7061 D8
2061 B10 7062 D10
2065 E7 7063 B9
2066 E9 7071 E14
2067 F9 7072 F11
2068 G9 7073 G12
2071 E11 7074 G11
2072 D12 7075 I12
2073 C13 7076 H12
2074 D13 8051 D1
2075 D14 9051 C1
2076 E13 9052 B1
2077 C12 9053 B10
2078 B13 9054 A7
2079 C13 F001 B3
2080 C13 F002 B5
2081 C14 F003 B4
2085 F13 F004 B10
2086 G13 F005 B14
2087 I11 F006 B1
2088 H13 F007 B2
2091 H2 F008 B14
2092 H2 F009 B12
3051 B4 F010 B2
3052 C4 F011 B5
3053 C4 F012 B11
3054 B5 F013 C1
3055 C5 F014 C2
3056 C5 F015 C12
3057 B5 F016 C3
3058 D6 F017 C5
3059 D8 F018 D1
3060 B7 F019 D11
3061 C7 F020 D12
3062 C8 F021 D11
3063 A7 F022 D12
3064 B9 F023 E11
3065 B9 F024 E1
3066 C9 F025 E1
3067 C9 F026 E1
3068 D9 F027 E1
3069 B9 F028 E1
3070 C10 F029 F1
3074 D13 F030 F1
3075 E7 F031 F1
3076 F6 F032 F1
3077 F8 F033 F1
3078 F8 F034 G1
3079 E8 F035 G1
3080 E9 F036 H1
3081 E9 F037 H1
3082 E9 F038 H1
3083 E9 F039 H1
3084 G9 F040 H1
3085 H10 F041 H1
3086 E12 F042 H1
3087 E13 F043 I1
3088 E13 1001 A6
3089 F13 1002 A9
3090 F14 1003 B6
3091 F14 1004 B5
3092 F14 1005 B4
3093 F12 1006 B13
3094 G12 1007 B5
3095 G13 1008 C6
3096 H11 1009 C4
3097 I11 1010 C6
3098 H13 1011 C7
4051 D4 1012 D13
4052 A5 1013 E10
4053 C8 1014 D7
4071 C13 1015 D8
5051 C1 1016 E12
5052 B1 1017 E7
5053 B2 1018 E7
5054 C3 1019 E7
5055 B3 1020 E9
5056 B4 1021 F8
5057 A6 1022 F14
5061 F9 1023 F7
5071 B11 1024 G13
5072 E12 1025 G13
5073 C12 1026 G9
5074 D13 1027 H9
5075 C12 1028 H10
5076 A12 1029 H12
5077 B12 1030 H11
5078 B12
5079 E14
5080 B14
6051 B4
6052 A5
6053 C8
6054 B10
6055 C10
6056 D10
6061 F8
6062 E10

CHN ECO-	SETNAME FL-1		
CLASS_30	Power Board 32MF605W/17	3138 158 6126	
2004-12-24 3			
NAME W.R. Huang/J. Cheng	SUPERS. 1	130 -	A2
CHECK	DATE 2004-12-23	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

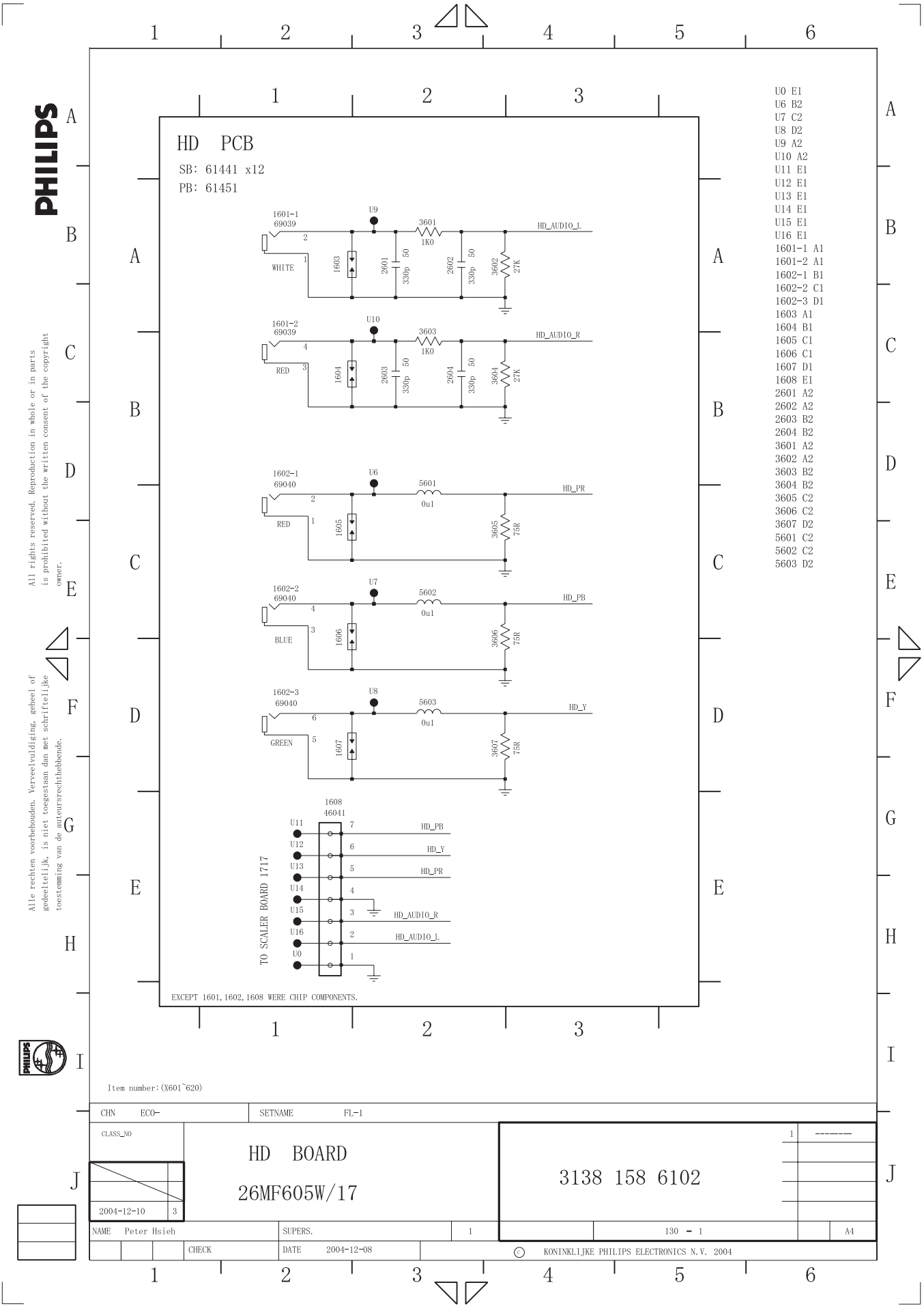


CN: ECO-		FL1	
CLASS NO 3XX000	Power board 26MF605W/17	3138 103 6091	1 2004-12-15
2004-12-15			
NAME WR Huang	SUPERS	2 10 132 - 1	A3
CHECK	DATE 2004-12-15	© Philips Electronics N.V.	

Power Board C.B.A-2



CN: ECO-			FL1		
CLASS NO 3XX000	Power board 26MF605W/17			3138 103 6091	1 2004-12-15
1 2 2004-12-15 3					
NAME WR Huang		SUPERS	2	10 132 - 2	A3
	CHECK	DATE 2004-12-15	©	Philips Electronics N.V.	



CHN ECO-	SETNAME FL-1		
CLASS_NO	HD BOARD	3138 158 6102	1 -------
2004-12-10 3	26MF605W/17		
NAME Peter Hsieh	SUPERS. 1	130 - 1	A4
CHECK	DATE 2004-12-08	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

HD Board C.B.A-1

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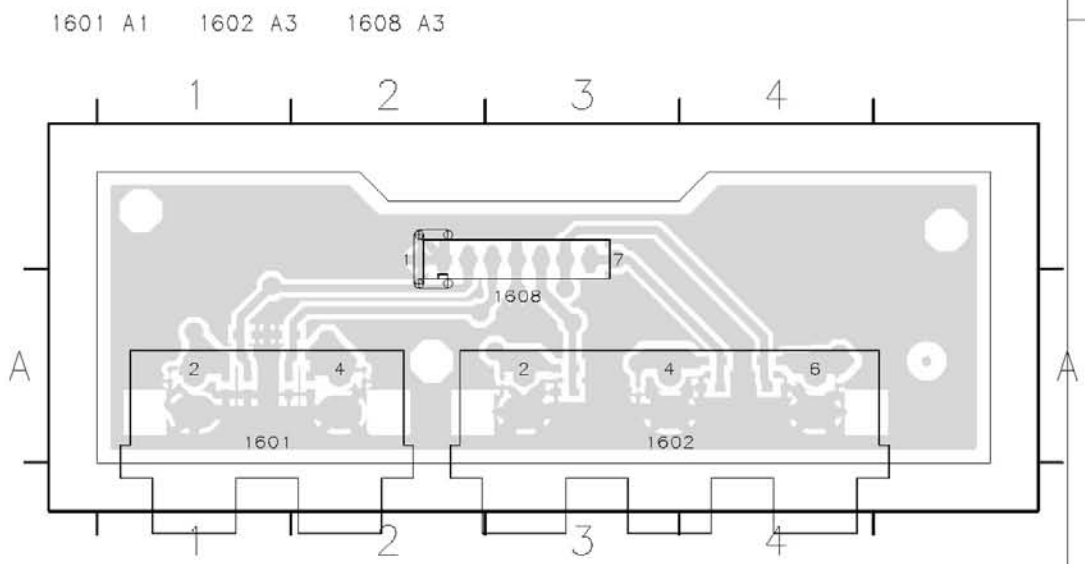


CN: ECO-	MMD FL1				
CLASS NO. 3XX000	HD Board	3138 103 6144		1	2004-12-10
2004-12-10 3	FL1 26MF605W				
NAME Peter Hsieh/IF	SUPERS	2	10	132 - 1	A4
CHECK	DATE 2004-12-10	© Philips Electronics N.V.			

PHILIPS

2601 A4
2602 A4

2603 A3
2604 A4

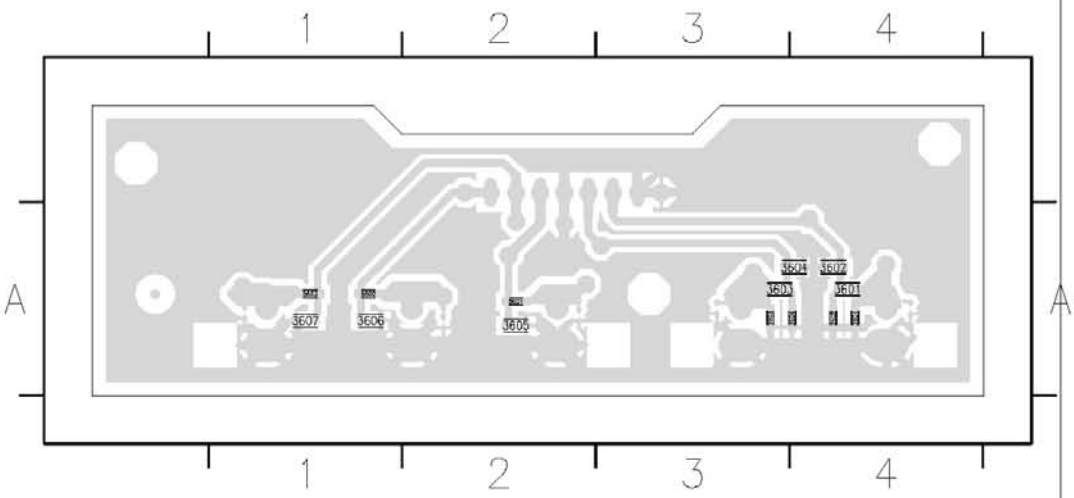
3601 A4
3602 A4

3603 A3
3604 A4

3605 A2
3606 A1

3607 A1
5601 A2

5602 A1
5603 A1



CN: ECO-

MMD FL1

CLASS NO.
3XX000

2004-12-10

HD Board
FL1 26MF605W

3138 103 6144

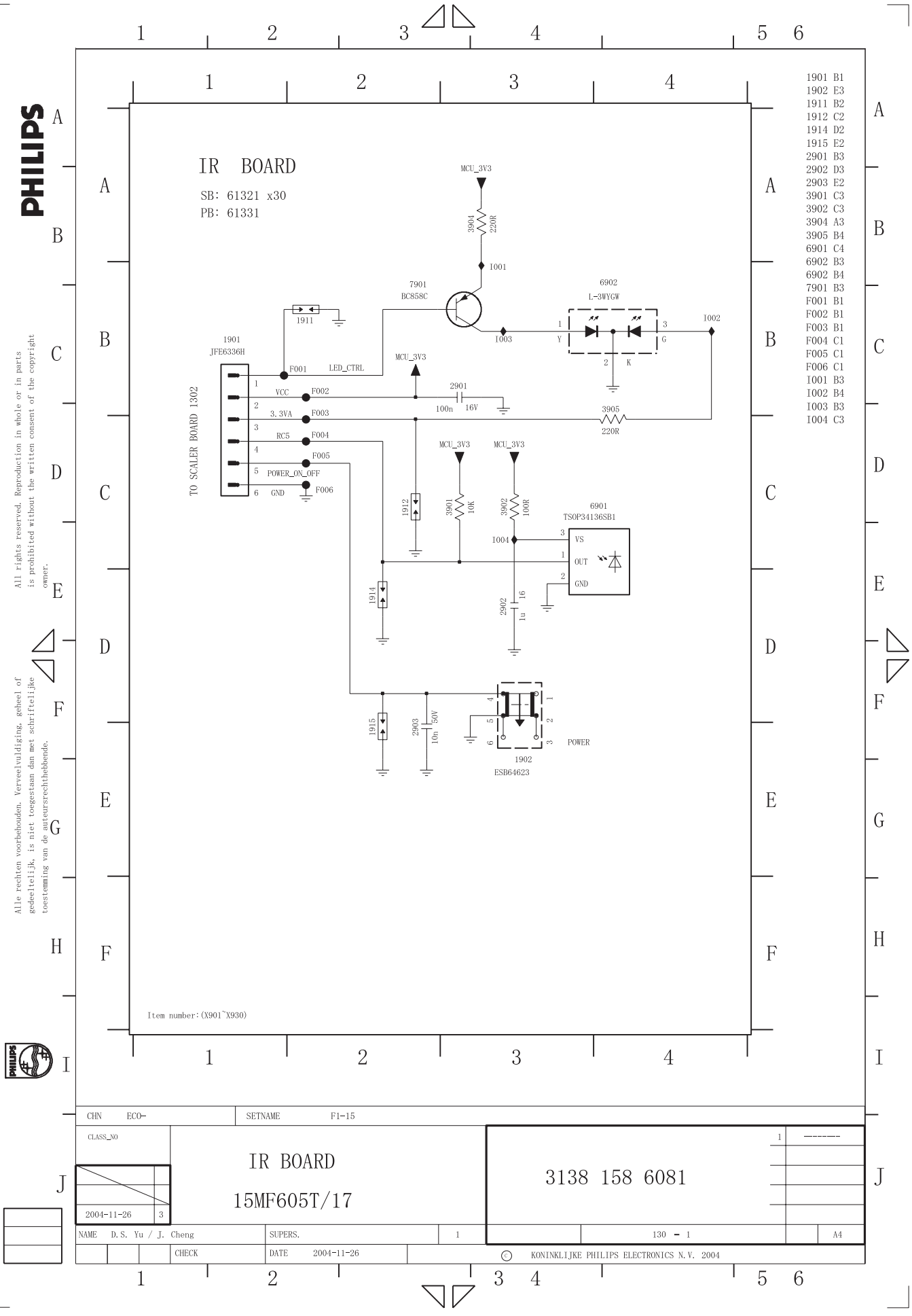
1 2004-12-10

NAME Peter Hsieh/IF | SUPERS | 2 | 10 | 132 - 2 | A4

CHECK | DATE 2004-12-10 | © Philips Electronics N.V.

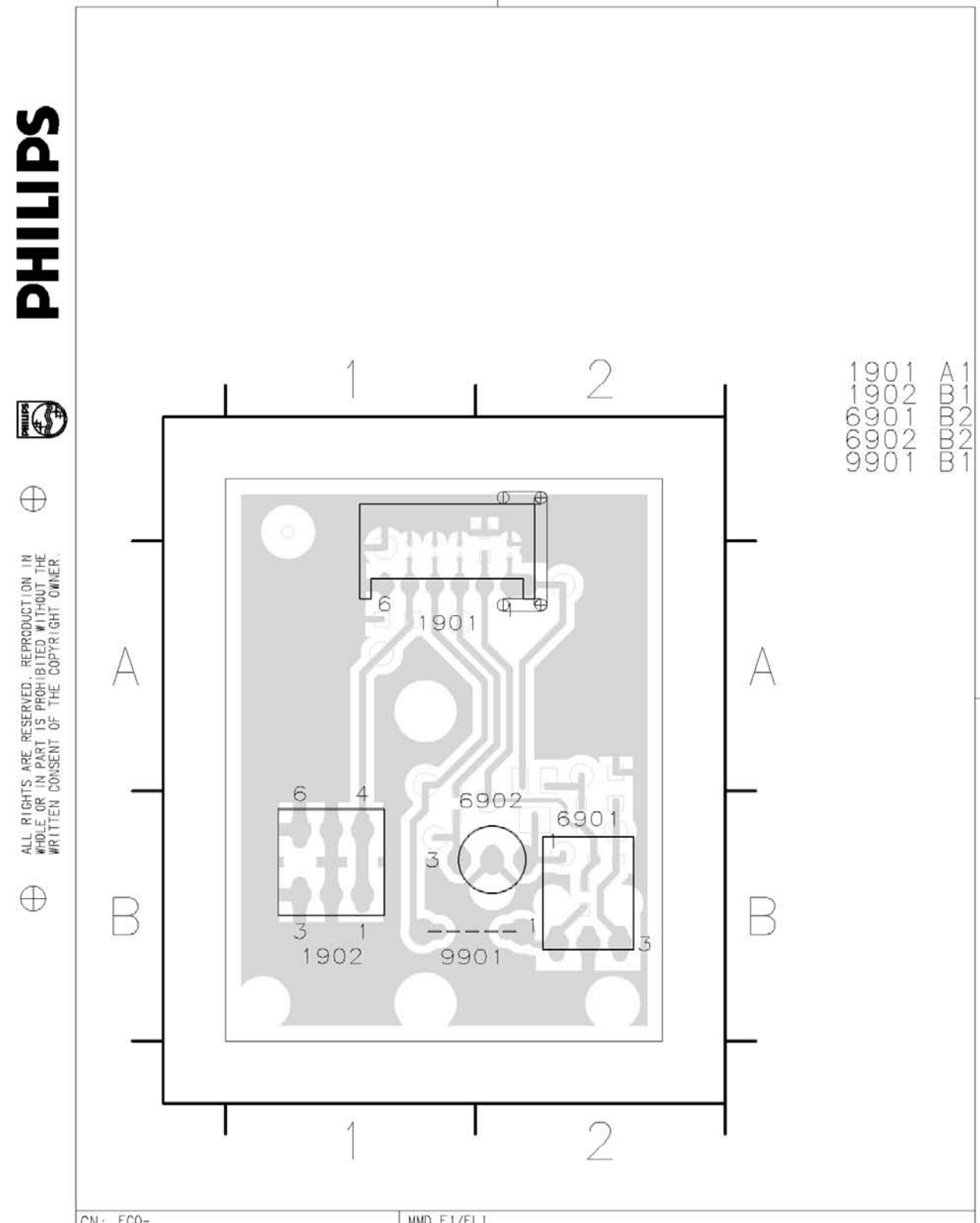
IR Diagram

Go to cover page



1901 B1
1902 E3
1911 B2
1912 C2
1914 D2
1915 E2
2901 B3
2902 D3
2903 E2
3901 C3
3902 C3
3904 A3
3905 B4
6901 C4
6902 B3
6902 B4
7901 B3
F001 B1
F002 B1
F003 B1
F004 C1
F005 C1
F006 C1
I001 B3
I002 B4
I003 B3
I004 C3

CHN ECO-		SETNAME F1-15	
CLASS_NO	IR BOARD	3138 158 6081	1 -------
2004-11-26 3	15MF605T/17		
NAME D.S. Yu / J. Cheng	SUPERS.	1	130 - 1 A4
CHECK	DATE 2004-11-26	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	



CN: ECO- | MMD F1/FL1

CLASS NO. 3XX000

PwrKey Board

MMD F1/FL1

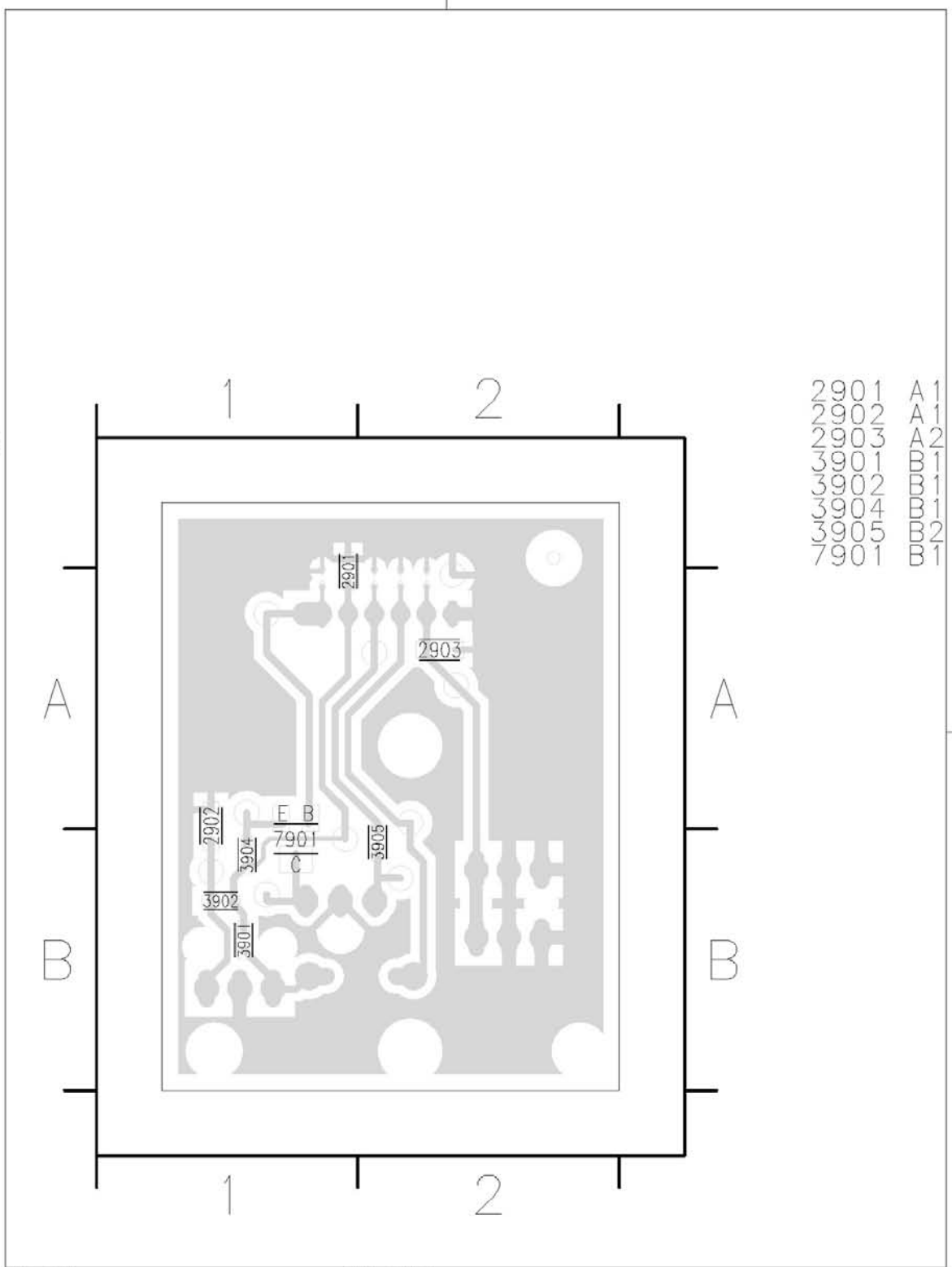
3138 103 6132

1 2004-11-26

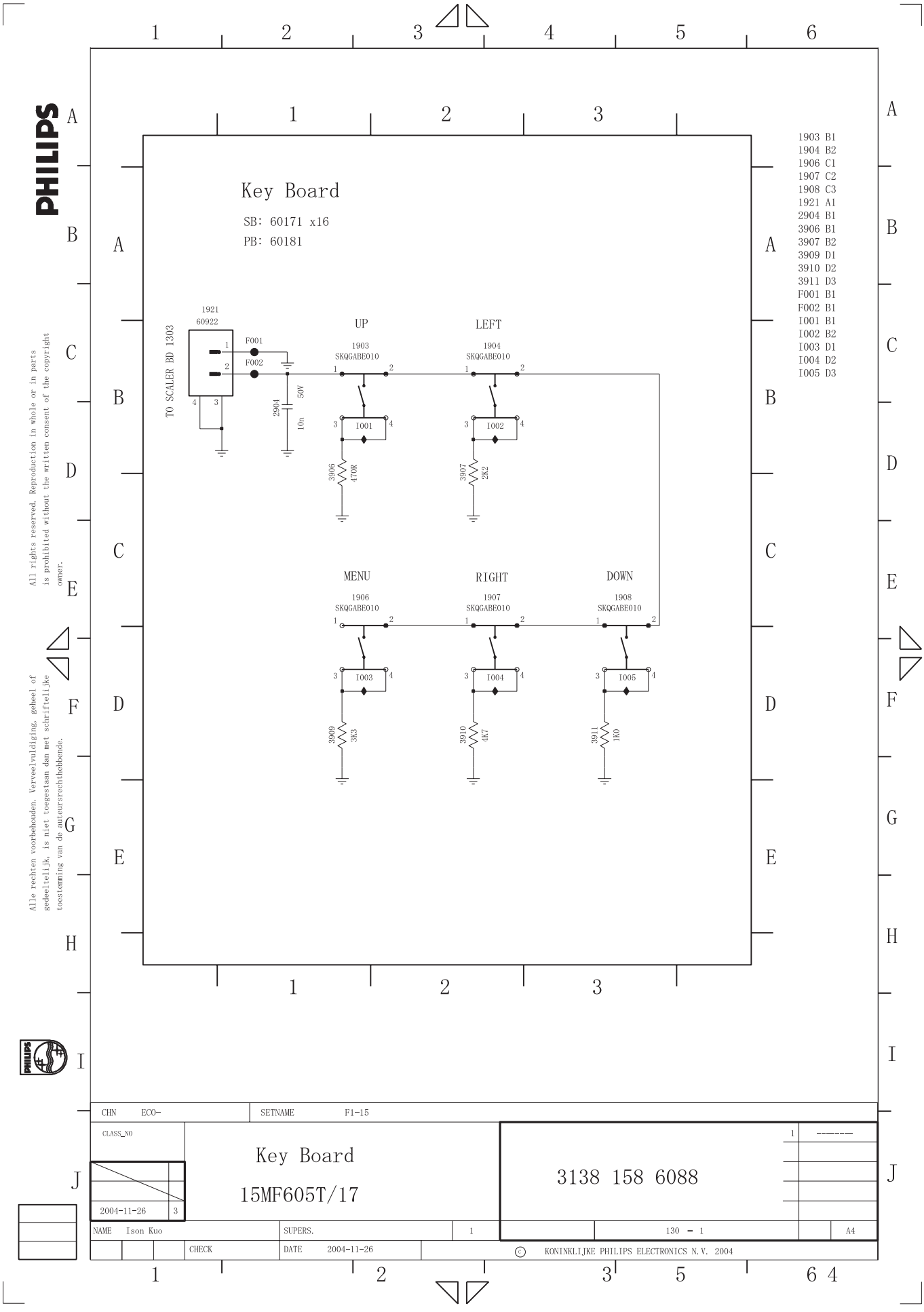
2004-11-26 3

NAME DS Yu/Ivy | SUPERS | 2 | 10 | 132 - 1 | A4

CHECK | DATE 2004-11-26 | © Philips Electronics N.V.



CN: ECO-	MMD F1/FL1				
CLASS NO. 3XX000	PwrKey Board MMD F1/FL1	3138 103 6132		1	2004-11-26
2004-11-26 3					
NAME DS Yu/Ivy	SUPERS	2	10	132 - 2	A4
CHECK	DATE 2004-11-26	© Philips Electronics N.V.			


PHILIPS
Key Board
SB: 60171 x16
PB: 60181
1903 B1
1904 B2
1906 C1
1907 C2
1908 C3
1921 A1
2904 B1
3906 B1
3907 B2
3909 D1
3910 D2
3911 D3
F001 B1
F002 B1
I001 B1
I002 B2
I003 D1
I004 D2
I005 D3
1921
60922
TO SCALER BD 1303
F001
F002
2904
10n
50V
UP
1903
SKQGABE010
LEFT
1904
SKQGABE010
I001
I002
3906
470R
3907
2K2
MENU
1906
SKQGABE010
RIGHT
1907
SKQGABE010
DOWN
1908
SKQGABE010
I003
I004
I005
3909
3K3
3910
4K7
3911
1K0
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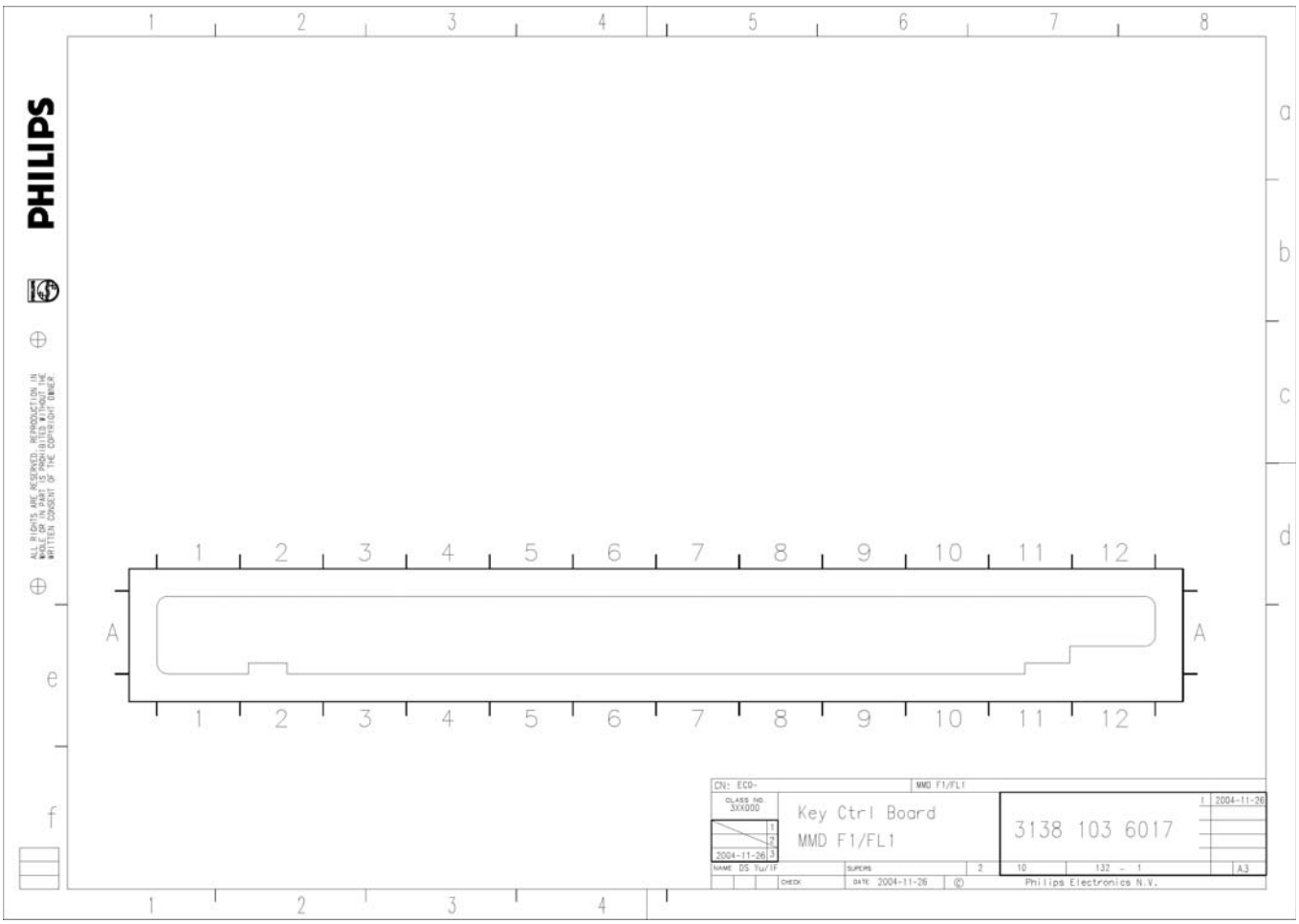
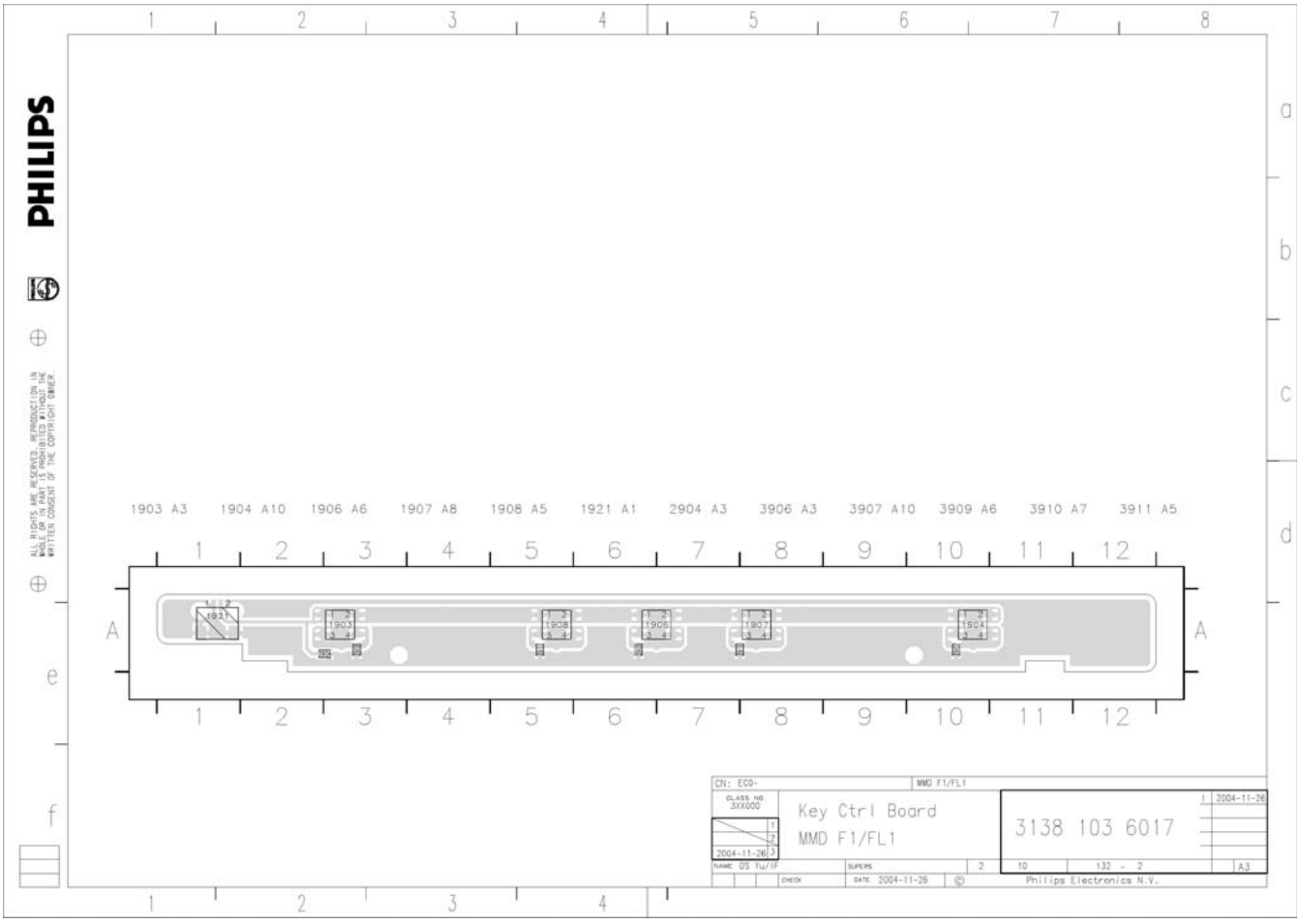
CHN ECO-
SETNAME F1-15
CLASS_NO
Key Board
15MF605T/17
3138 158 6088
2004-11-26 3
NAME Ison Kuo
SUPERS.
CHECK
DATE 2004-11-26
130 - 1
A4
KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004

KEY Board C.B.A

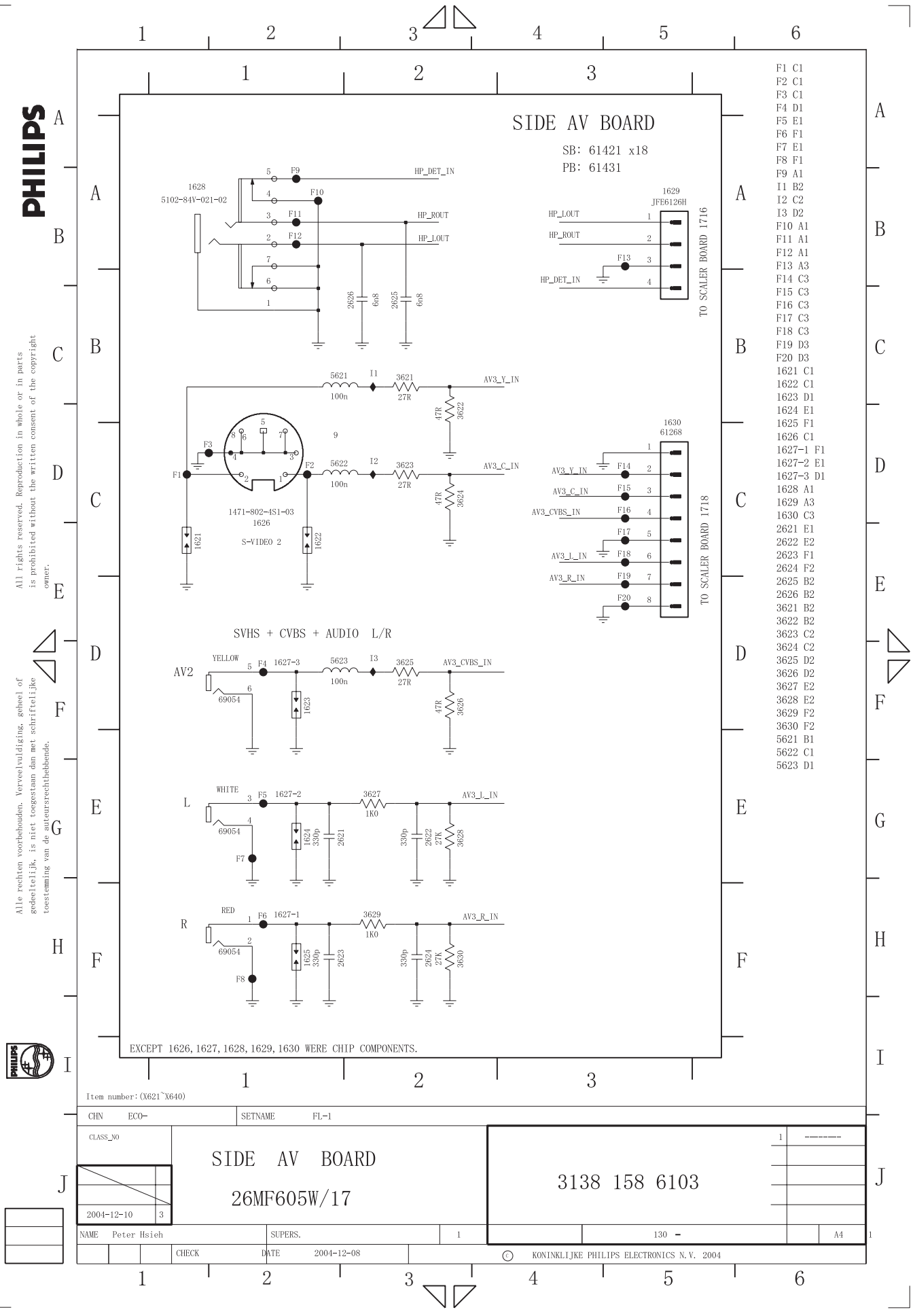
Go to cover page





SIDE AV Diagram

Go to cover page



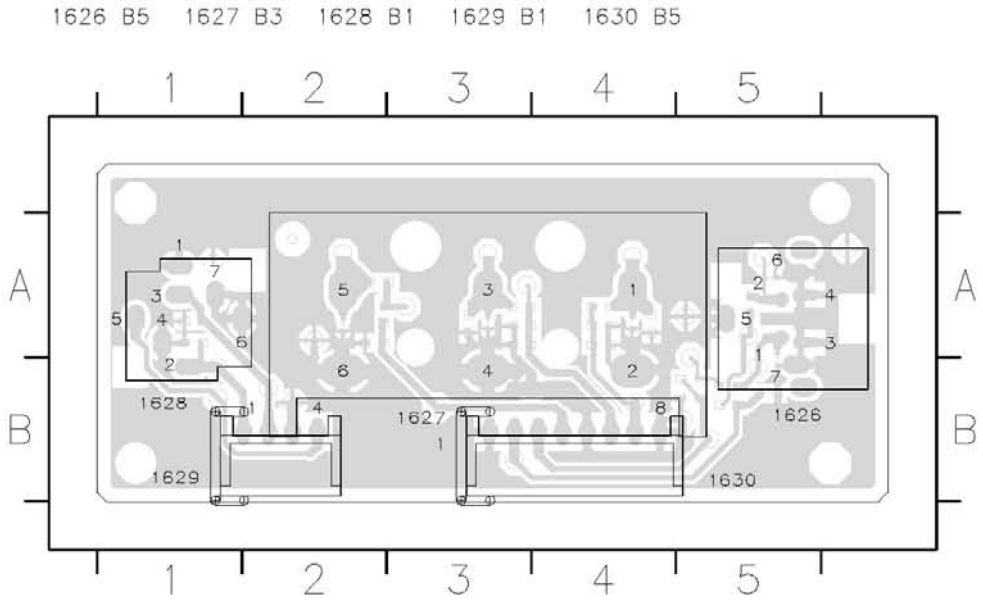
F1 C1
F2 C1
F3 C1
F4 D1
F5 E1
F6 F1
F7 E1
F8 F1
F9 A1
I1 B2
I2 C2
I3 D2
F10 A1
F11 A1
F12 A1
F13 A3
F14 C3
F15 C3
F16 C3
F17 C3
F18 C3
F19 D3
F20 D3
1621 C1
1622 C1
1623 D1
1624 E1
1625 F1
1626 C1
1627-1 F1
1627-2 E1
1627-3 D1
1628 A1
1629 A3
1630 C3
2621 E1
2622 E2
2623 F1
2624 F2
2625 B2
2626 B2
3621 B2
3622 B2
3623 C2
3624 C2
3625 D2
3626 D2
3627 E2
3628 E2
3629 F2
3630 F2
5621 B1
5622 C1
5623 D1

Item number: (X621~X640)

CHN ECO-	SETNAME FL-1		
CLASS_NO	SIDE AV BOARD	3138 158 6103	1 -------
2004-12-10 3	26MF605W/17		
NAME Peter Hsieh	SUPERS. 1	130 -	A4 1
CHECK	DATE 2004-12-08	© KONINKLIJKE PHILIPS ELECTRONICS N.V. 2004	

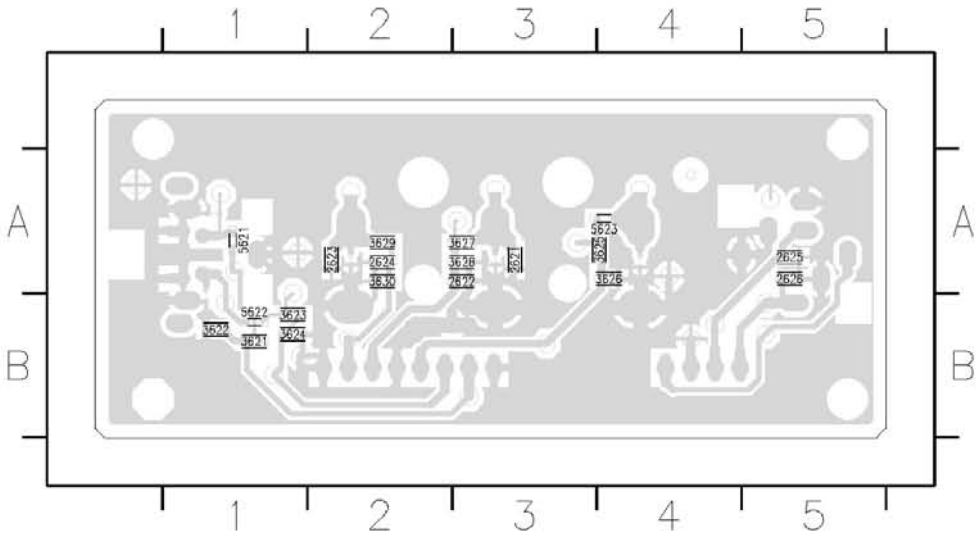
SIDE AV Board C.B.A-1

Go to cover page



CN: ECO-	MMD FL1				
CLASS NO. 3XX000	Side AV Board FL1 26MF605W	3138 103 6142	1	2004-12-10	
2004-12-10					
NAME Peter Hsieh/IF	SUPERS	2	10	132 - 1	A4
CHECK	DATE 2004-12-10	© Philips Electronics N.V.			

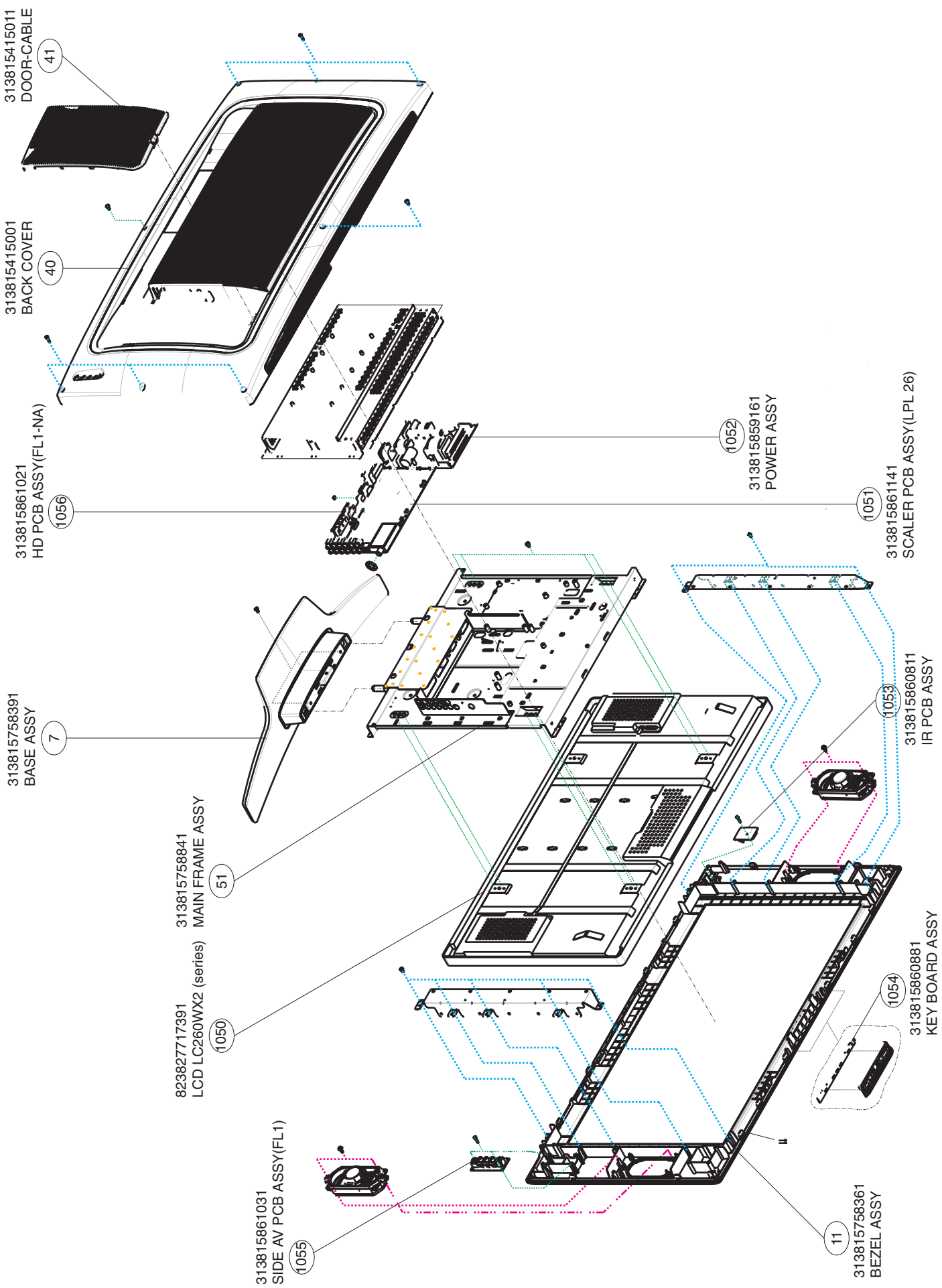
2621 A3 2624 A2 3621 B1 3624 B1 3627 A3 3630 A2 5623 A4
2622 A3 2625 A5 3622 B1 3625 A4 3628 A3 5621 A1
2623 A2 2626 A5 3623 B1 3626 A4 3629 A2 5622 B1



CN: ECO-	MMD FL1				
CLASS NO. 3XX000	Side AV Board FL1 26MF605W			3138 103 6142	1 2004-12-10
1 2 2004-12-10 3					
NAME Peter Hsieh/IF	SUPERS	2	10	132 - 2	A4
CHECK	DATE 2004-12-10	©	Philips Electronics N.V.		

Exploded View

Go to cover page



Model: 26MF605W/17(LG) 12NC: 8639 000 16053

Mechanical Parts

7	313815758391	BASE ASSY
11	313815758361	BEZEL ASSY
30	313815415051	BEZEL
31	313815414921	LENS-IR
32	313815414911	POWER BUTTON
40	313815415001	BACK COVER
41	313815415011	DOOR-CABLE
51	313815758841	MAIN FRAME ASSY
91	313815414931	CONTROL BUTTON
132	313815415521	DOOR BASE
1180	313815861171	MAIN FRAME+WIRE ASSY 26"
1411	313815861221	SDRAM ASSY(ISSI)7411,7412

Packing Parts

450	313815639411	CARTON
451	313815639401	CUSHION-L
452	313815639391	CUSHION-R
453	313815640041	P.E. BAG(1000 x 600)
457	313815640051	P.E. BAG(800 X 350)
458	313815636361	P.E.BAG 275x320 mm

Accessory

145	313815523441	OWNER'S MANUAL
1172	313818870491	MAINSCORD UL 10A 1M8 DET B

miscellanea

291	313815566111	LABEL
292	313815566111	LABEL
615	313811708231	HEX CODE OF F/W (NO MATL REQ)
1001	242202518823	CON V 10P M 2.00 63390
1061	823827716541	AC INLET 7014
1062	242208600208	FUSE 5X20 HT 4A 250V IEC
1071	243803100099	CON V 2P M 2.50 63171
1088	242202518904	CON V 12P M 2.50 64842
1089	242202518903	CON V 10P M 2.50 64840
1101	242203300374	SOC DVI H 29P F 1.91DVI-I
1104	243803100428	SOC CINCH H 2P F 2L1 WHRD
1114	242202518432	SOC SUBD H 15P F SBFR
1175	908210090002	BAT ZNC 1.5V 820MAH AA 2-PAC
1176	823827717511	REMOTE CONTROL RC1112713/17
1185	823827717541	LSP 8R 5W OPN FU1R O57X126Y
1186	823827717541	LSP 8R 5W OPN FU1R O57X126Y
1251	313815859171	DIODE ASSY GBU6J 6051
1252	313815859181	DIODE ASSY STTH5L06 6052
1253	313815859191	DIODE ASSY(6071,6076)
1254	313815859211	POW TRANS ASSY 7057/ 7062
1301	243854300089	RES XTL SM 24M576 16P HC49/S
1401	243854300086	RES XTL SM 14M318 18P HC49/S
1402	242202518804	CON V 30P M 1.25 SM 60948
1501	242202518819	CON V 7P M 2.00 63387
1502	242254301508	RES XTL SM 11M059 20P SMD-49
1503	242202518818	CON V 6P M 2.00 63386
1504	242202518814	CON V 2P M 2.00 63382
1509	243803100435	SOC IC V 8P F 2.54 DIL
1601	242202605733	SOC CINCH H 2P F 1L2 WHRD
1602	242202605453	SOC CINCH H 3P F 1L3 RDBUGR
1608	313819874751	CBLE-017 7/50/7-917 AWG28
1627	242202605546	SOC CINCH H 3P F 1L3 YEWHRD
1628	823827716501	MINIATURE JACK 5102-84V-021-5
1630	313818872301	CON BM H 8P M 2.5 A2502WR2
1714	823827716601	CHINCH CONNECTOR 69444
1715	242202605554	SOC CINCH H 8P F 2L4
1716	242202518816	CON V 4P M 2.00 63384
1717	242202518819	CON V 7P M 2.00 63387
1718	242202518821	CON V 8P M 2.00 63388
1731	242254301372	RES XTL SM 18M432 16P HC49/S
1811	313914722661	FRONTEND FQ1236/F H-5
1822	242202518814	CON V 2P M 2.00 63382
1902	243812800224	SWI PUSH 2P 0.2A 20V SFPC12
1903	242212803035	SWI TACT SM 1P 1POS SKQGAB
1904	242212803035	SWI TACT SM 1P 1POS SKQGAB
1906	242212803035	SWI TACT SM 1P 1POS SKQGAB
1907	242212803035	SWI TACT SM 1P 1POS SKQGAB
1908	242212803035	SWI TACT SM 1P 1POS SKQGAB
1921	823827716481	CON BM H2P M1.25
4444	313810610445	CD ROM - SERVICE MANUAL
4444	313810610446	SERVICE MANUAL
8055	313819874741	CBLE-390 10/110/10-020 AWG26
8161	313819874761	CBLE-001 2/330/2-012 AWG28
8162	313819874771	CBLE-016 6/540/6-016 AWG28
8163	313819874781	CBLE-018 8/335/8 -388 AWG28
8164	313819874791	CBLE-014 4/490/4 -384 AWG28
8165	313819874801	CBLE FAST/700/3 -123 AWG28
8166	313819874811	CBLE FAST/440/2 -392 AWG26
8167	313819874821	CBLE -392 12/580/12-022 AWG26
8174	313819874731	CBLE-130 30/260/30-033 AWG28

LCD Panel

1050	823827717391	LCD LC260WX2 (series)

PCB Assy

1051	313815861141	SCALER PCB ASSY(LPL 26)
1052	313815859161	POWER ASSY
1053	313815860811	IR PCB ASSY
1054	313815860881	KEY BOARD ASSY
1055	313815861031	SIDE AV PCB ASSY(FL1)
1056	313815861021	HD PCB ASSY(FL1-NA)

PCB Assy

1051	313815861141	SCALER PCB ASSY(LPL 26)

⊣▮⊢

2001	202203100207	ELCAP SM RVS 16V 10U PM20
2003	203803513313	ELCAP RGA 25V S 100U PM20
2004	223858619812	CER2 0603 Y5V 50V 100N P8020
2005	223878616641	CER2 0603 X7R 16V 22N PM10
2006	223886715221	CER1 0603 NP0 50V 220P PM5
2007	202203100074	ELCAP KM 16V S 1000U PM20
2009	202055296507	CER2 1206 Y5V 10V 10U P8020
2010	202203100074	ELCAP KM 16V S 1000U PM20
2011	202203100074	ELCAP KM 16V S 1000U PM20
2013	202203100074	ELCAP KM 16V S 1000U PM20
2014	223858115649	CER2 1206 X7R 50V 100N PM10
2015	203803511407	ELCAP REA 35V S 100U PM20
2016	223886715221	CER1 0603 NP0 50V 220P PM5
2018	223886715221	CER1 0603 NP0 50V 220P PM5
2019	223858619807	CER2 0603 Y5V 50V 22N P8020
2020	223891619849	CER2 0603 Y5V 25V 100N P8020
2039	223858619807	CER2 0603 Y5V 50V 22N P8020
2040	203803513313	ELCAP RGA 25V S 100U PM20
2102	223878615649	CER2 0603 X7R 16V 100N PM10
2103	223886715331	CER1 0603 NP0 50V 330P PM5
2104	223886715331	CER1 0603 NP0 50V 330P PM5
2105	223878615649	CER2 0603 X7R 16V 100N PM10
2106	223886715331	CER1 0603 NP0 50V 330P PM5
2107	223886715331	CER1 0603 NP0 50V 330P PM5
2121	223886715109	CER1 0603 NP0 50V 10P PM5
2122	223886715101	CER1 0603 NP0 50V 100P PM5
2123	223886715568	CER1 0603 NP0 50V 5P6 PM0P5
2124	223886715568	CER1 0603 NP0 50V 5P6 PM0P5
2125	223886715568	CER1 0603 NP0 50V 5P6 PM0P5
2126	223878615649	CER2 0603 X7R 16V 100N PM10
2127	223891619849	CER2 0603 Y5V 25V 100N P8020
2128	223886715331	CER1 0603 NP0 50V 330P PM5
2129	223886715331	CER1 0603 NP0 50V 330P PM5
2130	223886715331	CER1 0603 NP0 50V 330P PM5
2132	223886715331	CER1 0603 NP0 50V 330P PM5
2134	223886715339	CER1 0603 NP0 50V 33P PM5
2135	202055296507	CER2 1206 Y5V 10V 10U P8020
2301	223878616641	CER2 0603 X7R 16V 22N PM10
2303	223878616641	CER2 0603 X7R 16V 22N PM10
2304	223878616641	CER2 0603 X7R 16V 22N PM10
2305	223878616641	CER2 0603 X7R 16V 22N PM10
2306	223878616641	CER2 0603 X7R 16V 22N PM10
2308	223878616641	CER2 0603 X7R 16V 22N PM10
2309	223878616641	CER2 0603 X7R 16V 22N PM10
2311	223878616641	CER2 0603 X7R 16V 22N PM10
2312	223878616641	CER2 0603 X7R 16V 22N PM10
2315	223878616641	CER2 0603 X7R 16V 22N PM10
2317	223878616641	CER2 0603 X7R 16V 22N PM10
2318	223878616641	CER2 0603 X7R 16V 22N PM10
2319	223878616641	CER2 0603 X7R 16V 22N PM10
2320	223878616641	CER2 0603 X7R 16V 22N PM10
2321	223886715279	CER1 0603 NP0 50V 27P PM5
2322	223886715279	CER1 0603 NP0 50V 27P PM5
2323	223878616641	CER2 0603 X7R 16V 22N PM10
2324	203803511203	ELCAP REA 16V S 100U PM20
2325	223878615649	CER2 0603 X7R 16V 100N PM10
2326	223878615649	CER2 0603 X7R 16V 100N PM10
2327	223878615649	CER2 0603 X7R 16V 100N PM10
2328	223878615649	CER2 0603 X7R 16V 100N PM10
2329	223878615649	CER2 0603 X7R 16V 100N PM10
2330	223878615649	CER2 0603 X7R 16V 100N PM10
2331	223878615649	CER2 0603 X7R 16V 100N PM10
2332	223878615649	CER2 0603 X7R 16V 100N PM10
2333	223878615649	CER2 0603 X7R 16V 100N PM10
2334	223878615649	CER2 0603 X7R 16V 100N PM10
2335	202055296507	CER2 1206 Y5V 10V 10U P8020
2336	202002191726	ELCAP SM RVS 16V 47U PM20
2337	223878615649	CER2 0603 X7R 16V 100N PM10
2338	223878615649	CER2 0603 X7R 16V 100N PM10
2339	223878615649	CER2 0603 X7R 16V 100N PM10
2340	223878616641	CER2 0603 X7R 16V 22N PM10
2401	223878615649	CER2 0603 X7R 16V 100N PM10
2402	223858615636	CER2 0603 X7R 50V 10N PM10
2403	223878615649	CER2 0603 X7R 16V 100N PM10
2404	202002191726	ELCAP SM RVS 16V 47U PM20
2405	202055296507	CER2 1206 Y5V 10V 10U P8020
2406	223878615649	CER2 0603 X7R 16V 100N PM10
2407	223878615649	CER2 0603 X7R 16V 100N PM10
2408	223878615649	CER2 0603 X7R 16V 100N PM10
2409	223878615649	CER2 0603 X7R 16V 100N PM10
2410	223878615649	CER2 0603 X7R 16V 100N PM10
2411	223878615649	CER2 0603 X7R 16V 100N PM10
2412	223878615649	CER2 0603 X7R 16V 100N PM10
2413	202055296507	CER2 1206 Y5V 10V 10U P8020
2414	223878615649	CER2 0603 X7R 16V 100N PM10
2415	223878615649	CER2 0603 X7R 16V 100N PM10
2416	223878615649	CER2 0603 X7R 16V 100N PM10
2417	223878615649	CER2 0603 X7R 16V 100N PM10
2418	223878615649	CER2 0603 X7R 16V 100N PM10
2419	223878615649	CER2 0603 X7R 16V 100N PM10
2420	202055296507	CER2 1206 Y5V 10V 10U P8020
2421	223878615649	CER2 0603 X7R 16V 100N PM10
2422	223878615649	CER2 0603 X7R 16V 100N PM10
2423	223878615649	CER2 0603 X7R 16V 100N PM10
2424	223878615649	CER2 0603 X7R 16V 100N PM10
2425	202055296507	CER2 1206 Y5V 10V 10U P8020
2426	223878615649	CER2 0603 X7R 16V 100N PM10
2427	223878615649	CER2 0603 X7R 16V 100N PM10
2428	202055296507	CER2 1206 Y5V 10V 10U P8020
2429	223878615649	CER2 0603 X7R 16V 100N PM10
2430	223878615649	CER2 0603 X7R 16V 100N PM10
2431	223878615649	CER2 0603 X7R 16V 100N PM10
2432	223878615649	CER2 0603 X7R 16V 100N PM10
2433	223878615645	CER2 0603 X7R 16V 47N PM10
2434	223878615645	CER2 0603 X7R 16V 47N PM10
2435	223878615645	CER2 0603 X7R 16V 47N PM10
2436	223891611549	CER1 0603 NP0 25V 1N PM5
2437	223878615645	CER2 0603 X7R 16V 47N PM10
2438	223878615645	CER2 0603 X7R 16V 47N PM10
2439	223878615645	CER2 0603 X7R 16V 47N PM10
2440	223878615645	CER2 0603 X7R 16V 47N PM10
2441	223891611549	CER1 0603 NP0 25V 1N PM5
2442	223878615645	CER2 0603 X7R 16V 47N PM10
2443	223858615636	CER2 0603 X7R 50V 10N PM10
2444	223878615649	CER2 0603 X7R 16V 100N PM10
2445	223886715229	CER1 0603 NP0 50V 22P PM5
2446	223886715229	CER1 0603 NP0 50V 22P PM5
2447	223886715339	CER1 0603 NP0 50V 33P PM5
2448	223878615649	CER2 0603 X7R 16V 100N PM10
2449	223878615649	CER2 0603 X7R 16V 100N PM10
2450	223878615649	CER2 0603 X7R 16V 100N PM10
2451	223878615645	CER2 0603 X7R 16V 47N PM10
2452	223878619854	CER2 0603 Y5V 16V 220N P8020
2453	223886715181	CER1 0603 NP0 50V 180P PM5

Spare/Recommended Parts List

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2461	223878615649	CER2 0603 X7R 16V 100N PM10
2462	223878615649	CER2 0603 X7R 16V 100N PM10
2463	202055296507	CER2 1206 Y5V 10V 10U P8020
2464	202055296507	CER2 1206 Y5V 10V 10U P8020
2465	223878615649	CER2 0603 X7R 16V 100N PM10
2466	223878615649	CER2 0603 X7R 16V 100N PM10
2467	223878615649	CER2 0603 X7R 16V 100N PM10
2468	223878615649	CER2 0603 X7R 16V 100N PM10
2469	202055296507	CER2 1206 Y5V 10V 10U P8020
2501	223878615649	CER2 0603 X7R 16V 100N PM10
2502	223878615649	CER2 0603 X7R 16V 100N PM10
2503	223858615623	CER2 0603 X7R 50V 1N PM10
2504	223886715229	CER1 0603 NP0 50V 22P PM5
2505	223886715229	CER1 0603 NP0 50V 22P PM5
2506	223878615649	CER2 0603 X7R 16V 100N PM10
2508	202055296507	CER2 1206 Y5V 10V 10U P8020
2509	223886715109	CER1 0603 NP0 50V 10P PM5
2510	223858615636	CER2 0603 X7R 50V 10N PM10
2511	223858015636	CER2 0805 X7R 50V 10N PM10
2512	223886715101	CER1 0603 NP0 50V 100P PM5
2513	223858615636	CER2 0603 X7R 50V 10N PM10
2514	223858615636	CER2 0603 X7R 50V 10N PM10
2515	223858615636	CER2 0603 X7R 50V 10N PM10
2516	223886715101	CER1 0603 NP0 50V 100P PM5
2518	223878615649	CER2 0603 X7R 16V 100N PM10
2541	223878615649	CER2 0603 X7R 16V 100N PM10
2542	223878615649	CER2 0603 X7R 16V 100N PM10
2543	223878615649	CER2 0603 X7R 16V 100N PM10
2544	223878615649	CER2 0603 X7R 16V 100N PM10
2545	223878615649	CER2 0603 X7R 16V 100N PM10
2546	223878615649	CER2 0603 X7R 16V 100N PM10
2547	223878615649	CER2 0603 X7R 16V 100N PM10
2548	223878615649	CER2 0603 X7R 16V 100N PM10
2549	223878615649	CER2 0603 X7R 16V 100N PM10
2550	223878615649	CER2 0603 X7R 16V 100N PM10
2551	223878615649	CER2 0603 X7R 16V 100N PM10
2552	223878615649	CER2 0603 X7R 16V 100N PM10
2553	223878615649	CER2 0603 X7R 16V 100N PM10
2554	223878615649	CER2 0603 X7R 16V 100N PM10
2555	223878615649	CER2 0603 X7R 16V 100N PM10
2556	223878615649	CER2 0603 X7R 16V 100N PM10
2557	223878615649	CER2 0603 X7R 16V 100N PM10
2558	223878615649	CER2 0603 X7R 16V 100N PM10
2559	223878615649	CER2 0603 X7R 16V 100N PM10
2560	223878615649	CER2 0603 X7R 16V 100N PM10
2561	223878615649	CER2 0603 X7R 16V 100N PM10
2562	223878615649	CER2 0603 X7R 16V 100N PM10
2563	223878615649	CER2 0603 X7R 16V 100N PM10
2564	223878615649	CER2 0603 X7R 16V 100N PM10
2566	223886715339	CER1 0603 NP0 50V 33P PM5
2701	223886715331	CER1 0603 NP0 50V 330P PM5
2702	223886715331	CER1 0603 NP0 50V 330P PM5
2703	223886715331	CER1 0603 NP0 50V 330P PM5
2704	223886715331	CER1 0603 NP0 50V 330P PM5
2705	223886715331	CER1 0603 NP0 50V 330P PM5
2706	223886715331	CER1 0603 NP0 50V 330P PM5
2707	223886715331	CER1 0603 NP0 50V 330P PM5
2708	223886715331	CER1 0603 NP0 50V 330P PM5
2709	223886715331	CER1 0603 NP0 50V 330P PM5
2711	223886715331	CER1 0603 NP0 50V 330P PM5
2713	223886715331	CER1 0603 NP0 50V 330P PM5
2715	223886715331	CER1 0603 NP0 50V 330P PM5
2731	223824619863	CER2 0603 Y5V 10V 1U P8020
2732	223824619863	CER2 0603 Y5V 10V 1U P8020
2733	223824619863	CER2 0603 Y5V 10V 1U P8020
2734	223824619863	CER2 0603 Y5V 10V 1U P8020
2735	223824619863	CER2 0603 Y5V 10V 1U P8020
2736	223824619863	CER2 0603 Y5V 10V 1U P8020
2737	223824619863	CER2 0603 Y5V 10V 1U P8020
2738	223824619863	CER2 0603 Y5V 10V 1U P8020
2739	223824619863	CER2 0603 Y5V 10V 1U P8020
2740	223824619863	CER2 0603 Y5V 10V 1U P8020
2741	223824619863	CER2 0603 Y5V 10V 1U P8020
2742	223824619863	CER2 0603 Y5V 10V 1U P8020
2743	223824619863	CER2 0603 Y5V 10V 1U P8020
2744	223824619863	CER2 0603 Y5V 10V 1U P8020
2745	223886715479	CER1 0603 NP0 50V 47P PM5
2746	223886715159	CER1 0603 NP0 50V 15P PM5
2748	223858015649	CER2 0805 X7R 50V 100N PM10
2749	202055296507	CER2 1206 Y5V 10V 10U P8020
2751	223858015649	CER2 0805 X7R 50V 100N PM10
2753	223858015649	CER2 0805 X7R 50V 100N PM10
2754	223824615654	CER2 0603 X7R 10V 220N PM10
2755	202055296507	CER2 1206 Y5V 10V 10U P8020
2756	223858615632	CER2 0603 X7R 50V 4N7 PM10
2757	223858615632	CER2 0603 X7R 50V 4N7 PM10
2758	202055296507	CER2 1206 Y5V 10V 10U P8020
2759	202055296507	CER2 1206 Y5V 10V 10U P8020
2760	223878615649	CER2 0603 X7R 16V 100N PM10
2761	202055296507	CER2 1206 Y5V 10V 10U P8020
2762	202055296507	CER2 1206 Y5V 10V 10U P8020
2763	223824619863	CER2 0603 Y5V 10V 1U P8020
2764	223824619863	CER2 0603 Y5V 10V 1U P8020
2765	223824619863	CER2 0603 Y5V 10V 1U P8020
2766	223824619863	CER2 0603 Y5V 10V 1U P8020
2767	223886715159	CER1 0603 NP0 50V 15P PM5
2768	223886715159	CER1 0603 NP0 50V 15P PM5
2769	223858015649	CER2 0805 X7R 50V 100N PM10
2770	223858015649	CER2 0805 X7R 50V 100N PM10
2771	202055296507	CER2 1206 Y5V 10V 10U P8020
2772	202055296507	CER2 1206 Y5V 10V 10U P8020
2801	223878615649	CER2 0603 X7R 16V 100N PM10
2802	223886715159	CER1 0603 NP0 50V 15P PM5
2803	223878615649	CER2 0603 X7R 16V 100N PM10
2804	223878615649	CER2 0603 X7R 16V 100N PM10
2805	223878615649	CER2 0603 X7R 16V 100N PM10
2806	223878615649	CER2 0603 X7R 16V 100N PM10
2821	223891015649	CER2 0805 X7R 25V 100N PM10
2822	202203100132	ELCAP LZ 25V S 1000U PM20
2823	202203100132	ELCAP LZ 25V S 1000U PM20
2826	223858615636	CER2 0603 X7R 50V 10N PM10
2827	203803513313	ELCAP RGA 25V S 100U PM20
2828	223824619863	CER2 0603 Y5V 10V 1U P8020
2829	223886715101	CER1 0603 NP0 50V 100P PM5
2830	223878615649	CER2 0603 X7R 16V 100N PM10
2831	202055296507	CER2 1206 Y5V 10V 10U P8020
2832	202055296507	CER2 1206 Y5V 10V 10U P8020
2833	223886715101	CER1 0603 NP0 50V 100P PM5
2834	203803513313	ELCAP RGA 25V S 100U PM20
2835	223824619863	CER2 0603 Y5V 10V 1U P8020
2840	223878619854	CER2 0603 Y5V 16V 220N P8020
2841	223878619854	CER2 0603 Y5V 16V 220N P8020
2842	223878619854	CER2 0603 Y5V 16V 220N P8020
2843	223878615649	CER2 0603 X7R 16V 100N PM10
2844	203803513313	ELCAP RGA 25V S 100U PM20
2845	223891619849	CER2 0603 Y5V 25V 100N P8020
2846	223886715101	CER1 0603 NP0 50V 100P PM5
2847	223886715101	CER1 0603 NP0 50V 100P PM5
2848	223891619849	CER2 0603 Y5V 25V 100N P8020
2849	223858119716	CER2 1206 Y5V 50V 470N PM20
2850	223878619854	CER2 0603 Y5V 16V 220N P8020
2851	223878619854	CER2 0603 Y5V 16V 220N P8020
2852	223878615649	CER2 0603 X7R 16V 100N PM10
2853	202203100231	ELCAP SM HV 50V 1U PM20
2854	223891619849	CER2 0603 Y5V 25V 100N P8020
2855	223858615636	CER2 0603 X7R 50V 10N PM10
2856	223886715221	CER1 0603 NP0 50V 220P PM5
2857	202203100182	ELCAP SM RVS 25V 10U PM20
2858	223878619854	CER2 0603 Y5V 16V 220N P8020
2859	202203100231	ELCAP SM HV 50V 1U PM20
2860	223878615649	CER2 0603 X7R 16V 100N PM10
2861	223891619849	CER2 0603 Y5V 25V 100N P8020
2862	223886715101	CER1 0603 NP0 50V 100P PM5
2863	223886715101	CER1 0603 NP0 50V 100P PM5
2864	203803513313	ELCAP RGA 25V S 100U PM20
2865	223891619849	CER2 0603 Y5V 25V 100N P8020
2866	223878615649	CER2 0603 X7R 16V 100N PM10
2867	223858119716	CER2 1206 Y5V 50V 470N PM20
2868	223878619854	CER2 0603 Y5V 16V 220N P8020
2869	223878619854	CER2 0603 Y5V 16V 220N P8020
2873	223878619854	CER2 0603 Y5V 16V 220N P8020
2881	202055296507	CER2 1206 Y5V 10V 10U P8020
2882	202055296507	CER2 1206 Y5V 10V 10U P8020
2883	202055296507	CER2 1206 Y5V 10V 10U P8020
2884	202203100074	ELCAP KM 16V S 1000U PM20
2885	223886715229	CER1 0603 NP0 50V 22P PM5

3001	212211805678	RST SM 0603 RC0603 47K PM5
3002	212211805682	RST SM 0603 RC0603 82K PM5
3003	212211805676	RST SM 0603 RC0603 33K PM5
3004	232270260101	RST SM 0603 RC21 100R PM5
3005	212211805678	RST SM 0603 RC0603 47K PM5
3006	212211805669	RST SM 0603 RC0603 10K PM5
3007	232270260223	RST SM 0603 RC21 22K PM5
3009	212211805676	RST SM 0603 RC0603 33K PM5
3010	212211805667	RST SM 0603 RC0603 6K8 PM5
3011	232270260472	RST SM 0603 RC21 4K7 PM5
3012	232270463002	RST SM 0603 RC22H 3K PM1
3013	232270461003	RST SM 0603 RC22H 10K PM1
3014	213810500082	RST MOX 1W RSS S 0R82 PM5
3015	212211805667	RST SM 0603 RC0603 6K8 PM5
3020	212211805678	RST SM 0603 RC0603 47K PM5
3021	212211805669	RST SM 0603 RC0603 10K PM5
3024	232270260101	RST SM 0603 RC21 100R PM5
3025	232270260101	RST SM 0603 RC21 100R PM5
3030	212211805669	RST SM 0603 RC0603 10K PM5
3031	232270260472	RST SM 0603 RC21 4K7 PM5
3033	232270260101	RST SM 0603 RC21 100R PM5
3034	232270461002	RST SM 0603 RC22H 1K PM1
3035	232270260472	RST SM 0603 RC21 4K7 PM5
3036	232270462001	RST SM 0603 RC22H 200R PM1
3041	232270260101	RST SM 0603 RC21 100R PM5
3042	232270463302	RST SM 0603 RC22H 3K3 PM1
3043	232270463902	RST SM 0603 RC22H 3K9 PM1
3044	232270465602	RST SM 0603 RC22H 5K6 PM1
3045	232270463303	RST SM 0603 RC22H 33K PM1
3101	232270260101	RST SM 0603 RC21 100R PM5
3102	212211805669	RST SM 0603 RC0603 10K PM5
3103	232270260101	RST SM 0603 RC21 100R PM5
3104	232270260101	RST SM 0603 RC21 100R PM5
3105	232270260472	RST SM 0603 RC21 4K7 PM5
3106	232270260472	RST SM 0603 RC21 4K7 PM5
3107	232270260101	RST SM 0603 RC21 100R PM5
3108	232270260102	RST SM 0603 RC21 1K PM5
3111	232270260102	RST SM 0603 RC21 1K PM5
3112	232270260273	RST SM 0603 RC21 27K PM5
3114	232270260102	RST SM 0603 RC21 1K PM5
3115	232270260273	RST SM 0603 RC21 27K PM5
3131	232270260472	RST SM 0603 RC21 4K7 PM5
3132	232270260101	RST SM 0603 RC21 100R PM5
3133	232270260101	RST SM 0603 RC21 100R PM5
3134	232270260472	RST SM 0603 RC21 4K7 PM5
3135	232270260101	RST SM 0603 RC21 100R PM5
3136	232270260472	RST SM 0603 RC21 4K7 PM5
3137	232270260101	RST SM 0603 RC21 100R PM5
3139	232270260472	RST SM 0603 RC21 4K7 PM5
3140	232270260472	RST SM 0603 RC21 4K7 PM5
3141	232270260273	RST SM 0603 RC21 27K PM5
3142	232270260273	RST SM 0603 RC21 27K PM5
3146	232270260101	RST SM 0603 RC21 100R PM5
3149	232270260101	RST SM 0603 RC21 100R PM5
3153	232270260101	RST SM 0603 RC21 100R PM5
3154	212211805642	RST SM 0603 RC0603 75R PM5
3156	232270260102	RST SM 0603 RC21 1K PM5
3157	212211805642	RST SM 0603 RC0603 75R PM5
3158	232270260101	RST SM 0603 RC21 100R PM5
3159	232270260101	RST SM 0603 RC21 100R PM5
3160	232270260102	RST SM 0603 RC21 1K PM5
3161	212211805642	RST SM 0603 RC0603 75R PM5
3162	232270260689	RST SM 0603 RC21 68R PM5
3163	232270260689	RST SM 0603 RC21 68R PM5
3164	232270260689	RST SM 0603 RC21 68R PM5
3305	212211805639	RST SM 0603 RC0603 47R PM5
3306	212211805639	RST SM 0603 RC0603 47R PM5
3307	212211805639	RST SM 0603 RC0603 47R PM5
3308	212211805639	RST SM 0603 RC0603 47R PM5
3311	235003510101	RST NETW SM ARV24 4X100R PM5
3312	235003510101	RST NETW SM ARV24 4X100R PM5
3313	212211805639	RST SM 0603 RC0603 47R PM5
3316	232270260332	RST SM 0603 RC21 3K3 PM5
3317	232270260472	RST SM 0603 RC21 4K7 PM5
3318	232270260472	RST SM 0603 RC21 4K7 PM5
3320	232270260472	RST SM 0603 RC21 4K7 PM5
3321	232270260101	RST SM 0603 RC21 100R PM5

3322	232270260101	RST SM 0603 RC21 100R PM5
3402	212211805651	RST SM 0603 RC0603 390R PM5
3403	232270260471	RST SM 0603 RC21 470R PM5
3404	232270260471	RST SM 0603 RC21 470R PM5
3405	232270260101	RST SM 0603 RC21 100R PM5
3407	232270260102	RST SM 0603 RC21 1K PM5
3408	232270461005	RST SM 0603 RC22H 1M PM1
3409	235003510101	RST NETW SM ARV24 4X100R PM5
3410	235003510101	RST NETW SM ARV24 4X100R PM5
3411	212211805635	RST SM 0603 RC0603 10R PM5
3412	212211805639	RST SM 0603 RC0603 47R PM5
3413	235003510229	RST NETW SM ARV24 4X 22R PM5
3414	235003510229	RST NETW SM ARV24 4X 22R PM5
3415	235003510229	RST NETW SM ARV24 4X 22R PM5
3416	235003510229	RST NETW SM ARV24 4X 22R PM5
3417	235003510229	RST NETW SM ARV24 4X 22R PM5
3418	235003510229	RST NETW SM ARV24 4X 22R PM5
3419	235003510229	RST NETW SM ARV24 4X 22R PM5
3420	232270260101	RST SM 0603 RC21 100R PM5
3421	212211805635	RST SM 0603 RC0603 10R PM5
3422	212211805635	RST SM 0603 RC0603 10R PM5
3423	212211805635	RST SM 0603 RC0603 10R PM5
3424	212211805635	RST SM 0603 RC0603 10R PM5
3425	212211805635	RST SM 0603 RC0603 10R PM5
3426	212211805635	RST SM 0603 RC0603 10R PM5
3427	212211805635	RST SM 0603 RC0603 10R PM5
3428	212211805635	RST SM 0603 RC0603 10R PM5
3430	232270260101	RST SM 0603 RC21 100R PM5
3431	235003510229	RST NETW SM ARV24 4X 22R PM5
3432	235003510229	RST NETW SM ARV24 4X 22R PM5
3433	235003510229	RST NETW SM ARV24 4X 22R PM5
3434	235003510229	RST NETW SM ARV24 4X 22R PM5
3435	232270260472	RST SM 0603 RC21 4K7 PM5
3436	232270260472	RST SM 0603 RC21 4K7 PM5
3501	232270461005	RST SM 0603 RC22H 1M PM1
3502	232270260102	RST SM 0603 RC21 1K PM5
3503	232270260102	RST SM 0603 RC21 1K PM5
3504	232270260101	RST SM 0603 RC21 100R PM5
3505	232270260101	RST SM 0603 RC21 100R PM5
3506	232270260332	RST SM 0603 RC21 3K3 PM5
3507	232270260332	RST SM 0603 RC21 3K3 PM5
3508	232270260332	RST SM 0603 RC21 3K3 PM5
3509	232270260101	RST SM 0603 RC21 100R PM5
3510	232270260101	RST SM 0603 RC21 100R PM5
3511	232270260101	RST SM 0603 RC21 100R PM5
3512	212211805647	RST SM 0603 RC0603 220R PM5
3513	212211805647	RST SM 0603 RC0603 220R PM5
3514	212211805647	RST SM 0603 RC0603 220R PM5
3515	212211805647	RST SM 0603 RC0603 220R PM5
3516	232270260332	RST SM 0603 RC21 3K3 PM5
3517	232270260332	RST SM 0603 RC21 3K3 PM5
3518	212211805678	RST SM 0603 RC0603 47K PM5
3523	232270260472	RST SM 0603 RC21 4K7 PM5
3524	232270260472	RST SM 0603 RC21 4K7 PM5
3525	232270260332	RST SM 0603 RC21 3K3 PM5
3527	232270260101	RST SM 0603 RC21 100R PM5
3529	232270260332	RST SM 0603 RC21 3K3 PM5
3530	232270260472	RST SM 0603 RC21 4K7 PM5
3532	232270260472	RST SM 0603 RC21 4K7 PM5
3533	232270260472	RST SM 0603 RC21 4K7 PM5
3536	212211805647	RST SM 0603 RC0603 220R PM5
3537	212211805647	RST SM 0603 RC0603 220R PM5
3538	212211805678	RST SM 0603 RC0603 47K PM5
3539	212211805659	RST SM 0603 RC0603 1K8 PM5
3561	232270260472	RST SM 0603 RC21 4K7 PM5
3566	232270260472	RST SM 0603 RC21 4K7 PM5
3567	232270260101	RST SM 0603 RC21 100R PM5
3568	232270260101	RST SM 0603 RC21 100R PM5
3569	235003510229	RST NETW SM ARV24 4X 22R PM5
3570	235003510229	RST NETW SM ARV24 4X 22R PM5
3571	212211805635	RST SM 0603 RC0603 10R PM5
3573	235003510689	RST NETW SM ARV24 4X 68R PM5
3574	235003510689	RST NETW SM ARV24 4X 68R PM5
3575	235003510689	RST NETW SM ARV24 4X 68R PM5
3576	235003510689	RST NETW SM ARV24 4X 68R PM5
3577	232270260101	RST SM 0603 RC21 100R PM5
3701	212211805639	RST SM 0603 RC0603 47R PM5
3702	232270260279	RST SM 0603 RC21 27R PM5
3703	232270260279	RST SM 0603 RC21 27R PM5
3704	212211805639	RST SM 0603 RC0603 47R PM5
3705	232270260102	RST SM 0603 RC21 1K PM5
3706	232270260279	RST SM 0603 RC21 27R PM5
3708	212211805639	RST SM 0603 RC0603 47R PM5
3711	232270260102	RST SM 0603 RC21 1K PM5
3712	232270260273	RST SM 0603 RC21 27K PM5
3713	232270260279	RST SM 0603 RC21 27R PM5
3714	232270260102	RST SM 0603 RC21 1K PM5
3715	232270260273	RST SM 0603 RC21 27K PM5
3718	212211805642	RST SM 0603 RC0603 75R PM5
3720	212211805631	RST SM 0603 JUMP. MAX 0R05
3721	232270260101	RST SM 0603 RC21 100R PM5
3722	212211805631	RST SM 0603 JUMP. MAX 0R05
3723	232270260101	RST SM 0603 RC21 100R PM5
3724	232270260224	RST SM 0603 RC21 220K PM5
3725	232270260224	RST SM 0603 RC21 220K PM5
3734	232270260102	RST SM 0603 RC21 1K PM5
3735	232270260273	RST SM 0603 RC21 27K PM5
3739	232270260102	RST SM 0603 RC21 1K PM5
3740	232270260273	RST SM 0603 RC21 27K PM5
3743	212211805639	RST SM 0603 RC0603 47R PM5
3748	212211805642	RST SM 0603 RC0603 75R PM5
3749	212211805642	RST SM 0603 RC0603 75R PM5
3756	212211805642	RST SM 0603 RC0603 75R PM5
3766	232270260101	RST SM 0603 RC21 100R PM5
3771	232270260222	RST SM 0603 RC21 2K2 PM5
3772	212211805678	RST SM 0603 RC0603 47K PM5
3773	212211805678	RST SM 0603 RC0603 47K PM5
3774	212211805678	RST SM 0603 RC0603 47K PM5
3775	212211805678	RST SM 0603 RC0603 47K PM5
3776	212211805678	RST SM 0603 RC0603 47K PM5
3777	212211805678	RST SM 0603 RC0603 47K PM5
3778	212211805678	RST SM 0603 RC0603 47K PM5
3779	212211805678	RST SM 0603 RC0603 47K PM5
3780	232270260101	RST SM 0603 RC21 100R PM5
3781	232270260101	RST SM 0603 RC21 100R PM5
3783	212211805669	RST SM 0603 RC0603 10K PM5
3784	212211805669	RST SM 0603 RC0603 10K PM5
3785	232270260101	RST SM 0603 RC21 100R PM5
3786	232270260101	RST SM 0603 RC21 100R PM5
3787	232270260101	RST SM 0603 RC21 100R PM5
3788	232270260101	RST SM 0603 RC21 100R PM5
3789	232270260101	RST SM 0603 RC21 100R PM5
3790	232270260101	RST SM 0603 RC21 100R PM5
3791	232270260273	RST SM 0603 RC21 27K PM5
3792	232270260222	RST SM 0603 RC21 2K2 PM5
3799	232270260101	RST SM 0603 RC21 100R PM5
3801	232270260471	RST SM 0603 RC21 470R PM5
3802	232270260472	RST SM 0603 RC21 4K7 PM5
3806	232270260101	RST SM 0603 RC21 100R PM5
3807	232270260101	RST SM 0603 RC21 100R PM5
3808	212211805635	RST SM 0603 RC0603 10R PM5
3809	213810500082	RST MOX 1W RSS S 0R82 PM5
3810	232270260101	RST SM 0603 RC21 100R PM5
3811	232270260472	RST SM 0603 RC21 4K7 PM5
3812	212211805635	RST SM 0603 RC0603 10R PM5
3813	213811201111	RST SM 0805 RC05 110R PM5
3814	232270260472	RST SM 0603 RC21 4K7 PM5
3815	232270260102	RST SM 0603 RC21 1K PM5
3816	212211805639	RST SM 0603 RC0603 47R PM5
3831	212211805662	RST SM 0603 RC0603 2K7 PM5
3832	212211805662	RST SM 0603 RC0603 2K7 PM5
3833	232270260472	RST SM 0603 RC21 4K7 PM5
3839	212211805669	RST SM 0603 RC0603 10K PM5
3840	232270260223	RST SM 0603 RC21 22K PM5
3841	232270260223	RST SM 0603 RC21 22K PM5
3842	232270260332	RST SM 0603 RC21 3K3 PM5
3843	232270260332	RST SM 0603 RC21 3K3 PM5
3844	232270260223	RST SM 0603 RC21 22K PM5
3845	232270260223	RST SM 0603 RC21 22K PM5
3846	212211805669	RST SM 0603 RC0603 10K PM5
3849	212211805944	RST SM 0603 RC0603 120K PM5
3850	212211805639	RST SM 0603 RC0603 47R PM5
4001	212211805631	RST SM 0603 JUMP. MAX 0R05
4002	212211805631	RST SM 0603 JUMP. MAX 0R05
4401	212211805631	RST SM 0603 JUMP. MAX 0R05
4429	212211805631	RST SM 0603 JUMP. MAX 0R05
4481	212211805631	RST SM 0603 JUMP. MAX 0R05
4502	212211805631	RST SM 0603 JUMP. MAX 0R05
4521	212211805631	RST SM 0603 JUMP. MAX 0R05
4522	212211805631	RST SM 0603 JUMP. MAX 0R05
4523	212211805631	RST SM 0603 JUMP. MAX 0R05
4524	212211805631	RST SM 0603 JUMP. MAX 0R05
4525	212211805631	RST SM 0603 JUMP. MAX 0R05
4526	212211805631	RST SM 0603 JUMP. MAX 0R05
4528	212211805631	RST SM 0603 JUMP. MAX 0R05
4529	212211805631	RST SM 0603 JUMP. MAX 0R05
4532	212211805631	RST SM 0603 JUMP. MAX 0R05
4708	212211805631	RST SM 0603 JUMP. MAX 0R05
4710	212211805631	RST SM 0603 JUMP. MAX 0R05
4712	212211805631	RST SM 0603 JUMP. MAX 0R05
4714	212211805631	RST SM 0603 JUMP. MAX 0R05
4716	212211805631	RST SM 0603 JUMP. MAX 0R05
4782	212211805631	RST SM 0603 JUMP. MAX 0R05
4793	212211805631	RST SM 0603 JUMP. MAX 0R05
4794	212211805631	RST SM 0603 JUMP. MAX 0R05
4795	212211805631	RST SM 0603 JUMP. MAX 0R05
4796	212211805631	RST SM 0603 JUMP. MAX 0R05
4804	212211805631	RST SM 0603 JUMP. MAX 0R05
4809	212211805631	RST SM 0603 JUMP. MAX 0R05
4812	212211805631	RST SM 0603 JUMP. MAX 0R05
4813	212211805631	RST SM 0603 JUMP. MAX 0R05
4814	212211805631	RST SM 0603 JUMP. MAX 0R05
4815	212211805631	RST SM 0603 JUMP. MAX 0R05
4831	212211805631	RST SM 0603 JUMP. MAX 0R05
4833	212211805631	RST SM 0603 JUMP. MAX 0R05
4841	212211805631	RST SM 0603 JUMP. MAX 0R05
5003	313818875771	COI CHOKE 35UH 82M OHM DR10X8
5004	242254945579	IND FXD 1206 EMI 100MHZ 100R
5005	313818875771	COI CHOKE 35UH 82M OHM DR10X8
5006	313818875771	COI CHOKE 35UH 82M OHM DR10X8
5123	242254944194	IND FXD 0805 EMI 100MHZ 200R
5124	242254944194	IND FXD 0805 EMI 100MHZ 200R
5125	242254944194	IND FXD 0805 EMI 100MHZ 200R
5301	242254944194	IND FXD 0805 EMI 100MHZ 200R
5302	242254944527	IND FXD 0603 EMI 100MHZ 600R
5303	242254944527	IND FXD 0603 EMI 100MHZ 600R
5304	242254944527	IND FXD 0603 EMI 100MHZ 600R
5305	242254944527	IND FXD 0603 EMI 100MHZ 600R
5306	242254944527	IND FXD 0603 EMI 100MHZ 600R
5401	242254944197	IND FXD 0805 EMI 100MHZ 220R
5402	242254944197	IND FXD 0805 EMI 100MHZ 220R
5403	242254944197	IND FXD 0805 EMI 100MHZ 220R
5404	242254944197	IND FXD 0805 EMI 100MHZ 220R
5405	242254944197	IND FXD 0805 EMI 100MHZ 220R
5406	242254944197	IND FXD 0805 EMI 100MHZ 220R
5407	242254944197	IND FXD 0805 EMI 100MHZ 220R
5408	242254944197	IND FXD 0805 EMI 100MHZ 220R
5409	242254944197	IND FXD 0805 EMI 100MHZ 220R
5421	242254944194	IND FXD 0805 EMI 100MHZ 200R
5422	242254944194	IND FXD 0805 EMI 100MHZ 200R
5501	242254944197	IND FXD 0805 EMI 100MHZ 220R
5502	242254944197	IND FXD 0805 EMI 100MHZ 220R
5521	242254944197	IND FXD 0805 EMI 100MHZ 220R
5522	242254944197	IND FXD 0805 EMI 100MHZ 220R
5523	242254944197	IND FXD 0805 EMI 100MHZ 220R
5524	242254944197	IND FXD 0805 EMI 100MHZ 220R
5701	242253595853	IND FXD SM 0603 0U10 PM10
5702	242253595853	IND FXD SM 0603 0U10 PM10
5703	242253595853	IND FXD SM 0603 0U10 PM10
5704	242253595853	IND FXD SM 0603 0U10 PM10
5705	242253595853	IND FXD SM 0603 0U10 PM10
5706	242253595853	IND FXD SM 0603 0U10 PM10
5707	242253595853	IND FXD SM 0603 0U10 PM10
5731	242253595853	IND FXD SM 0603 0U10 PM10
5732	242253595853	IND FXD SM 0603 0U10 PM10
5801	242254945579	IND FXD 1206 EMI 100MHZ 100R
5811	243853598058	IND FXD BEAD EMI 100MHZ 80R
5812	242253600782	IND FXD TSL0808 S 33U PM10
5813	242253600782	IND FXD TSL0808 S 33U PM10
5814	242254900126	IND FXD 0805 EMI 100MHZ 120R
5815	242254900126	IND FXD 0805 EMI 100MHZ 120R
5816	242253595853	IND FXD SM 0603 0U10 PM10

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5817	242253595853	IND FXD SM 0603 0U10 PM10
5818	242254900126	IND FXD 0805 EMI 100MHZ 120R
5819	242254900126	IND FXD 0805 EMI 100MHZ 120R
5820	242253600782	IND FXD TSL0808 S 33U PM10
5821	242253600782	IND FXD TSL0808 S 33U PM10
5822	242254900126	IND FXD 0805 EMI 100MHZ 120R
5841	242254945579	IND FXD 1206 EMI 100MHZ 100R
5842	242254945579	IND FXD 1206 EMI 100MHZ 100R
6001	932221745685	DIO REC SM SSA34 (VISH)
6003	932208282668	DIO REC SM SS34-E3 (VISH)
6004	932221745685	DIO REC SM SSA34 (VISH)
6007	932205976685	DIO SIG SM LS4148 (VISH)
6101	932205976685	DIO SIG SM LS4148 (VISH)
6102	932205976685	DIO SIG SM LS4148 (VISH)
6121	932205976685	DIO SIG SM LS4148 (VISH)
6123	932205976685	DIO SIG SM LS4148 (VISH)
6731	932205976685	DIO SIG SM LS4148 (VISH)
7001	932211529668	FET POW SM SI9433DY-E3 (VISH)
7002	932217438685	TRA SIG SM BC847C (KEC0)
7003	934036790115	TRA SIG SM PDTC114EK (PHSE)
7004	932219076668	IC SM L5972D (ST00)
7005	823827716741	LM1117MPX-ADJ
7006	932213067676	IC L78L08ACZ (ST00)
7009	932216638668	FET POW SM SI5441DC-E3 (VISH)
7010	932219076668	IC SM L5972D (ST00)
7012	932219076668	IC SM L5972D (ST00)
7013	934036790115	TRA SIG SM PDTC114EK (PHSE)
7015	934036790115	TRA SIG SM PDTC114EK (PHSE)
7016	934036790115	TRA SIG SM PDTC114EK (PHSE)
7017	932217438685	TRA SIG SM BC847C (KEC0)
7101	932216972682	IC SM AT24C02N-10SC-2.7(ATME)
7122	935245720165	IC SM 74HCT1G14GW (PHSE)
7124	932216972682	IC SM AT24C02N-10SC-2.7(ATME)
7301	932222076668	IC SM AME1117CCGTZ (ST00)
7302	935276561518	IC SM SAA7119E/V2/G (PHSE)
7303	932222077668	IC SM AME1117ECGTZ (ST00)
7401	932222075668	IC SM AME1117BCGTZ (ST00)
7402	932222076668	IC SM AME1117CCGTZ (ST00)
7403	932222013671	IC SM MST51512L-LF (MSTA)
7411	823827716781	1M16-42S16100A1
7412	823827716781	1M16-42S16100A1
7501	932219183685	IC SM LM809M3-2.93 NOPB(NSC0)
7502	313815861121	CPU ASSY
7502	932222010682	IC SM NT68F632ALG (NOVA)
7503	313815861111	EEPROM IC ASSY
7503	932218650682	IC AT24C16A-10PU-2.7 (ATME)
7504	932217438685	TRA SIG SM BC847C (KEC0)
7522	932220476671	IC SM T6TU5XBG-0001(O2)
7523	823827716781	1M16-42S16100A1
7701	932217438685	TRA SIG SM BC847C (KEC0)
7711	932217891668	IC SM M74HC4052RM (ST00)
7712	934036790115	TRA SIG SM PDTC114EK (PHSE)
7713	934036790115	TRA SIG SM PDTC114EK (PHSE)
7714	932220047702	IC SM MSP3440G-QI-B8V3 (MIAS)
7801	933828890215	TRA SIG SM PMBT2369 (PHSE)
7802	932219513668	IC SM M74HC590M (ST00)
7803	932215366668	IC SM CY7C199-15ZC (CYPR)
7804	935187000118	IC SM 74HC573PW (PHSE)
7805	932219513668	IC SM M74HC590M (ST00)
7806	935187000118	IC SM 74HC573PW (PHSE)
7813	935072110115	IC SM TDA1308T/N1 (PHSE)
7814	932222035668	IC SM TPA3005D2PHP (TI00)
7821	933967310685	TRA SIG SM BC848CLG (ONSE)

PCB Assy

1052	313815859161	POWER ASSY
2051	202233000078	CAP MPP 275V S 470N PM10
2052	202055490156	CERSAF CD 250V S 1N PM20
2053	202055490156	CERSAF CD 250V S 1N PM20
2054	202233000078	CAP MPP 275V S 470N PM10
2055	202233300458	CAP MPP 450V S 1U5 PM5 B
2056	222291019856	CER2 0805 Y5V 25V 330N P8020
2057	202055296507	CER2 1206 Y5V 10V 10U P8020
2058	223858015636	CER2 0805 X7R 50V 10N PM10
2059	223891015649	CER2 0805 X7R 25V 100N PM10
2060	823827717681	CAPACITANCE 120U/450V HS
2061	203830250166	CAP MPOL 400V S 10N PM10
2065	223858015643	CER2 0805 X7R 50V 33N PM10
2066	202202000977	ELCAP GS 50V S 6U8 PM20
2067	203803521307	ELCAP GS 25V S 68U PM20
2068	202203100272	ELCAP PF 25V S 47U PM20
2071	202055490158	CERSAF CD 250V S 2N2 PM20
2072	223858015627	CER2 0805 X7R 50V 2N2 PM10
2073	203830150151	CAP PP PPN 100V S 10N PM2
2074	202203100387	ELCAP EB 25V S 2200U PM20
2075	202203100273	ELCAP PF 25V S 100U PM20
2076	223858015649	CER2 0805 X7R 50V 100N PM10
2077	203830150136	CAP PP PPN 100V S 3N3 PM5
2078	203830150159	CAP PP PPN 100V S 12N PM5
2079	202203100362	ELCAP LZ 35V S 1000U PM20
2080	202203100362	ELCAP LZ 35V S 1000U PM20
2081	203803527502	ELCAP KM 50V S 22U PM20
2085	223858015625	CER2 0805 X7R 50V 1N5 PM10
2086	202202000805	ELCAP GS 50V S 2U2 PM20
2087	223858015636	CER2 0805 X7R 50V 10N PM10
2088	223891015649	CER2 0805 X7R 25V 100N PM10
2091	223891015649	CER2 0805 X7R 25V 100N PM10
2092	223891015649	CER2 0805 X7R 25V 100N PM10
3051	212211805971	RST SM 1206 RC1206 270K PM5
3052	212211805971	RST SM 1206 RC1206 270K PM5
3053	212211805971	RST SM 1206 RC1206 270K PM5
3054	232271161824	RST SM 1206 RC01 820K PM5
3055	232271161824	RST SM 1206 RC01 820K PM5
3056	213811201103	RST SM 0805 RC05 10K PM5
3057	232273061333	RST SM 0805 RC11 33K PM5
3058	212210101515	RST CRB CF1/6 A 390R PM5
3059	212010500027	RST MOX 1W RSS A 0R15 PM1
3060	232271161683	RST SM 1206 RC01 68K PM5
3061	213810113228	RST CRB CFR-12 A 2R2 PM5
3062	232273061229	RST SM 0805 RC11 22R PM5
3064	232273463304	RST SM 0805 RC12H 330K PM1
3065	232273463304	RST SM 0805 RC12H 330K PM1
3066	232273463304	RST SM 0805 RC12H 330K PM1
3067	232273466201	RST SM 0805 RC12H 620R PM1
3068	232273465602	RST SM 0805 RC12H 5K6 PM1
3070	232273061102	RST SM 0805 RC11 1K PM5
3074	213811201224	RST SM 0805 RC05 220K PM5
3075	232273061102	RST SM 0805 RC11 1K PM5
3076	232273061471	RST SM 0805 RC11 470R PM5
3077	232273061274	RST SM 0805 RC11 270K PM5
3078	232273061474	RST SM 0805 RC11 470K PM5
3079	213811201331	RST SM 0805 RC05 330R PM5
3080	213811201103	RST SM 0805 RC05 10K PM5
3081	212010500027	RST MOX 1W RSS A 0R15 PM1
3082	213811201151	RST SM 0805 RC05 150R PM5
3083	213810113228	RST CRB CFR-12 A 2R2 PM5
3084	213811201222	RST SM 0805 RC05 2K2 PM5
3085	232273061102	RST SM 0805 RC11 1K PM5
3086	232273061102	RST SM 0805 RC11 1K PM5
3087	213810113334	RST CRB CFR-12 A 330K PM5
3088	232273061229	RST SM 0805 RC11 22R PM5
3089	213811201222	RST SM 0805 RC05 2K2 PM5
3090	232273461002	RST SM 0805 RC12H 1K PM1
3091	232273461803	RST SM 0805 RC12H 18K PM1
3092	213811201101	RST SM 0805 RC05 100R PM5
3093	212210102197	RST CRB CF1/6 A 4K7 PM5
3094	232273061223	RST SM 0805 RC11 22K PM5
3095	232273462202	RST SM 0805 RC12H 2K2 PM1
3096	232273061223	RST SM 0805 RC11 22K PM5
3097	232273061223	RST SM 0805 RC11 22K PM5
3098	213811201103	RST SM 0805 RC05 10K PM5
5051	313816874511	FERRITE BEAD
5052	313816874511	FERRITE BEAD
5053	823827716711	LINE FILTER RING CORE
5054	243853598026	IND FXD BEAD EMI 100MHZ 35R
5055	243853598026	IND FXD BEAD EMI 100MHZ 35R
5056	823827716941	LINE FILTER ET28
5057	823827715741	PFC COIL
5061	242253597072	IND FXD SP0305 A 6U8 PM10
5071	823827715721	POWER TRANSFORMER
5072	243853598026	IND FXD BEAD EMI 100MHZ 35R
5073	243853598026	IND FXD BEAD EMI 100MHZ 35R
5074	823827716731	INDUCTOR 10uH
5075	243853598026	IND FXD BEAD EMI 100MHZ 35R
5076	243853598026	IND FXD BEAD EMI 100MHZ 35R
5077	243853598026	IND FXD BEAD EMI 100MHZ 35R
5078	243853598026	IND FXD BEAD EMI 100MHZ 35R
5079	823827716731	INDUCTOR 10uH
5080	242253600038	IND FXD TSL0808 S 22U PM10
6051	931900263671	BRIDGE GBU6J-E3 (VISH)
6052	932220958687	DIO REC STTH5L06FP (ST00)
6053	933952580685	DIO SIG SM BAV103 (VISH)
6055	932222090673	DIO SUP P6KE250A A (LITO)
6056	932222163673	DIO REC UF1007 A (LITO)
6061	933952580685	DIO SIG SM BAV103 (VISH)
6062	933952580685	DIO SIG SM BAV103 (VISH)
6063	933952580685	DIO SIG SM BAV103 (VISH)
6064	933751660673	DIO REC RGP10D-E3 A (VISH)
6065	933952580685	DIO SIG SM BAV103 (VISH)
6066	933751660673	DIO REC RGP10D-E3 A (VISH)
6067	932222167673	DIO SUP P4KE16A A (LITO)
6071	932219932687	DIO REC STPS10H100CFP (ST00)
6072	933952580685	DIO SIG SM BAV103 (VISH)
6073	933952580685	DIO SIG SM BAV103 (VISH)
6074	933712930673	DIO REG BZX55-C12 A (VISH)
6075	933712760673	DIO REG BZX55-B18 A (VISH)
6076	932219203687	DIO REC STPS20H100CFP (ST00)
6081	933712970673	DIO REG BZX55-C20 A (VISH)
7056	823827716751	PFC CONTROLLER L6562
7057	823827716581	TRANSISTOR 20A 600V STP20NM60
7061	935267356112	IC TEA1507P/N1 (PHSE)
7062	932219657687	FET POW STP10NK80ZFP (ST00)
7063	933953410676	TRA SIG TBC328-40 (TOSJ)
7071	823827717691	TRANSISTOR 45A30V
7072	932214014667	OPT CP TCET1103(G) (VISH)
7073	932208697676	IC TL431ACZ S (ST00)
7074	932214014667	OPT CP TCET1103(G) (VISH)
7075	933705890676	TRA SIG BF422 (TOSJ)
7076	933237790126	TRA SIG BC547C (PHSE)

PCB Assy

1053	313815860811	IR PCB ASSY
2901	223878615649	CER2 0603 X7R 16V 100N PM10
2902	222278019763	CER2 0805 Y5V 16V 1U PM20
2903	223858015636	CER2 0805 X7R 50V 10N PM10
3901	212211805669	RST SM 0603 RC0603 10K PM5
3902	232270260101	RST SM 0603 RC21 100R PM5
3904	212211805647	RST SM 0603 RC0603 220R PM5
3905	212211805647	RST SM 0603 RC0603 220R PM5
6901	313815862261	IR + HOLDER ASSY
6901	932220313667	IR RECEIVER TSOP34136SB1
6902	313815862171	LED + HOLDER ASSY
6902	932214603682	LED VS L-3WYGW (KIEL)
7901	932217439685	TRA SIG SM BC857C (KEC0)

PCB Assy

1054	313815860881	KEY BOARD ASSY
2904	223858615636	CER2 0603 X7R 50V 10N PM10
3906	232270260471	RST SM 0603 RC21 470R PM5
3907	232270260222	RST SM 0603 RC21 2K2 PM5
3909	232270260332	RST SM 0603 RC21 3K3 PM5
3910	232270260472	RST SM 0603 RC21 4K7 PM5
3911	232270260102	RST SM 0603 RC21 1K PM5

PCB Assy

1055	313815861031	SIDE AV PCB ASSY(FL1)
2621	223886715331	CER1 0603 NP0 50V 330P PM5
2622	223886715331	CER1 0603 NP0 50V 330P PM5
2623	223886715331	CER1 0603 NP0 50V 330P PM5
2624	223886715331	CER1 0603 NP0 50V 330P PM5

2625	223858615634	CER2 0603 X7R 50V 6N8 PM10
2626	223858615634	CER2 0603 X7R 50V 6N8 PM10
3621	232270260279	RST SM 0603 RC21 27R PM5
3622	212211805639	RST SM 0603 RC0603 47R PM5
3623	232270260279	RST SM 0603 RC21 27R PM5
3624	212211805639	RST SM 0603 RC0603 47R PM5
3625	232270260279	RST SM 0603 RC21 27R PM5
3626	212211805639	RST SM 0603 RC0603 47R PM5
3627	232270260102	RST SM 0603 RC21 1K PM5
3628	232270260273	RST SM 0603 RC21 27K PM5
3629	232270260102	RST SM 0603 RC21 1K PM5
3630	232270260273	RST SM 0603 RC21 27K PM5
5621	242253595853	IND FXD SM 0603 0U10 PM10
5622	242253595853	IND FXD SM 0603 0U10 PM10
5623	242253595853	IND FXD SM 0603 0U10 PM10

PCB Assy

1056	313815861021	HD PCB ASSY(FL1-NA)
2601	223886715331	CER1 0603 NP0 50V 330P PM5
2602	223886715331	CER1 0603 NP0 50V 330P PM5
2603	223886715331	CER1 0603 NP0 50V 330P PM5
2604	223886715331	CER1 0603 NP0 50V 330P PM5
3601	232270260102	RST SM 0603 RC21 1K PM5
3602	232270260273	RST SM 0603 RC21 27K PM5
3603	232270260102	RST SM 0603 RC21 1K PM5
3604	232270260273	RST SM 0603 RC21 27K PM5
3605	212211805642	RST SM 0603 RC0603 75R PM5
3606	212211805642	RST SM 0603 RC0603 75R PM5
3607	212211805642	RST SM 0603 RC0603 75R PM5
5601	242253595853	IND FXD SM 0603 0U10 PM10
5602	242253595853	IND FXD SM 0603 0U10 PM10
5603	242253595853	IND FXD SM 0603 0U10 PM10

Diversity of 26MF605W/17(QDI) compared with 26MF605W/17(LPL)

0001	313810360171	KEY BOARD
0040	313815415002	BACK COVER
0056	313815136581	MAIN SHIELD
0105	253819700002	SCR HI-LO
0107	313815040511	NUT-AUDIO JACK
0110	313815321471	RUBBER PAD(15 x 13 x T3)
0126	313815566102	RATING LABEL
0129	313810650281	P.E. BAG (INSTR. BOOK)
0131	313815567041	CARTON STICKER
0141	313815523382	QUICK SETUP GUIDE
0143	313815522911	MAGNAVOX WARRANTY CARD
0145	313815523445	OWNER'S MANUAL
0174	313815160891	HEATSINK
0176	313815161771	COPPER BOSS
0181	313815415561	IR HOLDER
0182	313815415571	LED HOLDER
0185	313815161801	HEAT SINK - BRIGE DIODE
0187	252240189008	NUT HEX ST BLK M3
0191	313815161781	HEAT SINK-PW DIODE
0194	313815161791	HEAT SINK-PW TRANS
0197	313815321341	INSULATING PLATE
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0290	313800992071	PROCESS BOX
0291	313815567791	LABEL(QDI)
0291	313815566113	LABEL
0292	313815567791	LABEL(QDI)
0292	313815566113	LABEL
0450	313815639412	CARTON
0451	313815639402	CUSHION-L
0452	313815639392	CUSHION-R
0458	313815636362	P.E.BAG 275x320 mm
0615	313811708233	HEX CODE OF F/W (NO MATL REQ)
1050	823827718431	TFT-LCD MOD QD26HL01 REV.01
1051	823827716541	AC INLET 7014
1052	242208600208	FUSE 5X20 HT 4A 250V IEC B
1057	313815861291	SCALER ASSY-2(NAFTA26"QDI)
1057	313815861141	SCALER PCB ASSY(LPL 26)
1058	313815859161	POWER ASSY
1111	243803100429	SOC PHONE H 1P F 3.5 ST B
1177	313818876621	CON ACC ADP V 01P M 0.00/NTSC
1628	242202605768	SOC PHONE V 1P F 3.5 ST BK B
1719	243803100431	SOC MDIN H 4P F 69015 B
2060	202203100392	ELCAP HS 450V S 120U PM20 B
2061	225261808221	CER2 DC Y5P 500V S 2N2 PM10 A
2066	203803521302	ELCAP GS 25V S 4U7 PM20 A
2079	202203100386	ELCAP EB 35V S 1000U PM20 B
2080	202203100386	ELCAP EB 35V S 1000U PM20 B
2447	223886715568	CER1 0603 NP0 50V 5P6 PM0P5 R
2455	223886715229	CER1 0603 NP0 50V 22P PM5 R
2456	223886715229	CER1 0603 NP0 50V 22P PM5 R
2457	223886715229	CER1 0603 NP0 50V 22P PM5 R
3012	232270463092	RST SM 0603 RC22H 3K09 PM1 R
3043	232270463302	RST SM 0603 RC22H 3K3 PM1 R
3045	232270462873	RST SM 0603 RC22H 28K7 PM1 R
3056	213811201822	RST SM 0805 RC05 8K2 PM5 R
3060	232271161333	RST SM 1206 RC01 33K PM5 R
3062	232273061689	RST SM 0805 RC11 68R PM5 R
3071	212261200074	NTC DC SCK-034 S 3R PM15 A
3078	232273061334	RST SM 0805 RC11 330K PM5 R
3401	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3437	232270260279	RST SM 0603 RC21 27R PM5 R
3438	232270260279	RST SM 0603 RC21 27R PM5 R
3439	232270260279	RST SM 0603 RC21 27R PM5 R
3440	232270260279	RST SM 0603 RC21 27R PM5 R
3441	232270260279	RST SM 0603 RC21 27R PM5 R
3442	232270260279	RST SM 0603 RC21 27R PM5 R
3530	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3772	212211805687	RST SM 0603 RC0603 470K PM5 R
3773	212211805687	RST SM 0603 RC0603 470K PM5 R
3774	212211805687	RST SM 0603 RC0603 470K PM5 R
3775	212211805687	RST SM 0603 RC0603 470K PM5 R
3776	212211805687	RST SM 0603 RC0603 470K PM5 R
3777	212211805687	RST SM 0603 RC0603 470K PM5 R
3778	212211805687	RST SM 0603 RC0603 470K PM5 R
3779	212211805687	RST SM 0603 RC0603 470K PM5 R
5004	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5051	823827716711	LINE FILTER RING CORE
5052	243853598026	IND FXD BEAD EMI 100MHZ 35R R
5053	243853598026	IND FXD BEAD EMI 100MHZ 35R R
5054	823827716941	LINE FILTER ET28
5055	242254900497	FIL PFC 430UH 0R19 S4084 Y
5058	313816874511	FERRITE BEAD
5059	313816874511	FERRITE BEAD
5071	242254900503	TFM SMT LAYER HJC-S4143 WIRE Y
5074	242253601102	IND FXD OL1028H S 10U PM10 Y
5079	242253601102	IND FXD OL1028H S 10U PM10 Y
5801	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5841	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5842	242254900482	IND FXD 1206 EMI 100MHZ 80R R
6057	933563850673	DIO REC RGP15J-E3 A (VISH) A
7056	932222284682	IC L6562N (ST00) L
7057	932217923687	FET POW STP20NM60 (ST00) L
7071	932222181687	FET POW STP45NF3LL (ST00) L
7502	313815861301	CPU ASSY(QDI 26")
7503	313815861311	EEPROM ASSY(QDI 26")
8162	313819874772	CBLE-016 6/540/6-016 AWG28
8163	313819874782	CBLE-018 8/335/8 -388 AWG28
8164	313819874792	CBLE-014 4/490/4 -384 AWG28
8167	313819876021	CBLE -392 12/360/14-024 AWG26

Recommended Parts List

7	313815758391	BASE ASSY
11	313815758361	BEZEL ASSY
30	313815415051	BEZEL
31	313815414921	LENS-IR
32	313815414911	POWER BUTTON
40	313815415001	BACK COVER
41	313815415011	DOOR-CABLE
91	313815414931	CONTROL BUTTON
132	313815415521	DOOR BASE
145	313815523441	OWNER'S MANUAL
450	313815639411	CARTON
451	313815639401	CUSHION-L
452	313815639391	CUSHION-R
453	313815640041	P.E. BAG(1000 x 600)
457	313815640051	P.E. BAG(800 X 350)
458	313815636361	P.E.BAG 275x320 mm
615	313811708231	HEX CODE OF F/W (NO MATL REQ)
6007	932205976685	DIO SIG SM LS4148 (VISH)
6101	932205976685	DIO SIG SM LS4148 (VISH)
7004	932219076668	IC SM L5972D (ST00)
7005	823827716741	LM1117MPX-ADJ
7006	932213067676	IC L78L08ACZ (ST00)
7010	932219076668	IC SM L5972D (ST00)
7013	934036790115	TRA SIG SM PDTC114EK (PHSE)
7403	932222013671	IC SM MST51512L-LF (MSTA)
7813	935072110115	IC SM TDA1308T/N1 (PHSE)
7814	932222035668	IC SM TPA3005D2PHP (TI00)
8161	313819874761	CBLE-001 2/330/2-012 AWG28
8163	313819874781	CBLE-018 8/335/8 -388 AWG28

PHILIPS

GENERAL PRODUCT SPECIFICATION

. 26'' Multifunction LCD monitor

. PC 15 pins D-SUB analog interface

. PC audio line in with mini-Jack

. TV Tuner, S-Video, RCA AV input/output interface with R/L Audio-in

. DVI digital interface with HDCP support (for TV only)

. RCA connectors for YPbPr input

. HD/Component YPbPr with L/R audio input (RCA connector)

. NTSC, PAL TV system

. PC graphic auto picture adjustment

. 14 user modes

. User-friendly OSD menu

. User-friendly remote controller

. Recommend resolution 1280 x 720 non-interlace at 60 Hz

. WXGA 26'' color TFT LCD flat panel

. Easy tilt base

. Anti-glare to reduce light reflection

. Power management capability

. VESA standard wall mount kit (option)

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4.0 Visual characteristics

4.1 Test conditions
4.2 PC resolution
4.3 Brightness
4.4 Image size
4.4.1 Actual display size
4.5 Brightness uniformity
4.6 PC white color adjustment
4.7 TV white color adjustment
4.8 TV picture centering

CLASS NO.	26" Wide LCD Monitor / TV TYPE :26MF605W/17 BRAND : Magnavox	8639 000 16053
2004-12-20		

NAME Peter Hsieh	SUPERS.	18	590 — 2	10	A4
TY CHECK	DATE 2004-12-20	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-B.E.			

5.0 Mechanical characteristics

5.1 Controls
5.2 Unit dimension / weight
5.3 Tilt and swivel base
5.4 Transportation packages
5.4.1 Shipping dimension / weight
5.4.2 Block unit / palletization

6.0 Environmental characteristics

6.1 Susceptibility of display to external environment
6.2 Transportation tests
6.3 Display disturbances from external environment

7.0 Reliability

7.1 Mean time between failures

8.0 Quality assurance requirements

8.1 Acceptance test

9.0 Serviceability

1.0 FOREWORD

This specification describes a 26"multifunction LCD Monitor, maximum resolution up to 1280x768/60Hz non-interlaced.

2.0 PRODUCT PROFILE

This 26" TFT LCD monitor/TV can connect to PC ′ s analog D-SUB and TV′ s digital signal through DVI-D connector and it also have TV, Composite Video, S-Video, Component YPbPr , PVR output and HD YPbPr interface.

2.1 LCD

2.1.1. LPL panel

Type NR.	: LC260WX2 (LPL panel)
Display area(mm)	: 575.769mm x 323.712mm
Number of Pixels	: 1366(H) x 768(V)
Pitch (mm)	: 0.4215(H) x 0.4215(V)
Color pixel arrangement	: RGB vertical stripe
Display operating mode	: Normally black
Color depth	: 16,777,216 colors (8 bits)
Brightness (cd/m^2)	: 500(Center 1 points, Typ.)
Viewing angle(CR>10)	: Viewing angle free(R/L 176(Typ.),U/D 176(Typ.))
Surface treatment	: Hard coating(3H),Anti-glare treatment of the front polarize
Electrical interface	: LVDS
Response Time(ms, Typ)	: TrR:7 ,TrD:9(Gray to Gray)
Contrast ratio	: Typical 600 : 1
Outline Dimension	: 626.0mm(H) x 373.0mm(V) x 44.1mm(D) (Typ.)
Module weight (g)	: 5000(Typ.)
Backlight	: 18 EEFL

2.2 Scanning frequencies : Hor. : 30 - 50KHz Ver.: 56 - 63 Hz

2.3 Video dot rate : <80 MHz

2.4 Power input : 90 - 264 Vac, 50/60 ± 2 Hz

2.5 Power consumption : 70 W/Typ. (at PC mode) , 105 W/Typ. (at TV mode).

2.6 Unit Dimensions : 820 mm W x 213 mm H x 480 mm D (Incl. Pedestal)

2.7 Unit Weight : 11.5 Kg

2.8 Chin speaker : 2 x 5 W

2.9 Functions :

PC -15 pins D-sub analog interface with audio mini-Jack input (PC line in).

TV -DVI-D Digital interface (Support HDCP) with RCA jack L/R audio input.
-Tuner, Aerial input.
-Component YPbPr input and Composite Video input share with the same audio.
-HD/Component YPbPr input and audio input with RCA jack.
-Side composite video input and S-Video input share with the same audio.
-PVR output (Composite Video and Audio output).
-Headphone output.

2.10 Ambient temperature:

5 ~ 35 °C

2.11 Regulatory compliance :

FCC, EPA, UL, CSA, TUV/GS, TUV/ERG, CE, C-Tick, SEMKO,
Nutek, MPRII, BSMI, PSB, CB, PZ1, ISO13406-2. EN60950/IEC60950,
EN60065/IEC60065, EN55013, EN55020, EN55022, EN55024, EN60555-2,
EN61000-3-2

3.0 Electrical characteristics

3.1 Interface signals cables

VGA Interface Cable (option) Length : 1.8 M +/- 50 mm

DVI-D Cable (option) Length : 1.8 M +/- 50 mm

Stereo RCA R/L audio cable (option) Length : 1.5 M +/- 50 mm

S-video cable (option)

Length : 1.5 M +/- 50 mm

AV cable (option) Length : 1.5M +/- 50 mm

Mini Jack stereo cable (option) Length : 1.5 M +/- 50 mm

YPbPr cable (option) Length : 1.5M +/- 50mm

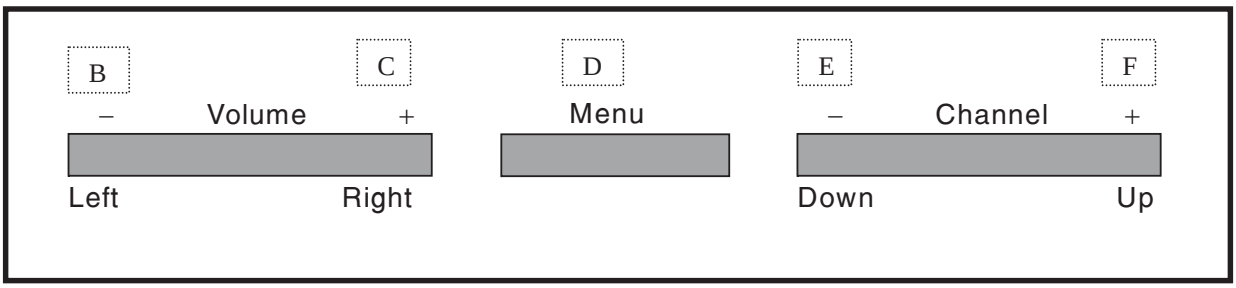
Power cord Length : 1.8 M +/- 50 mm

3.2 User interface

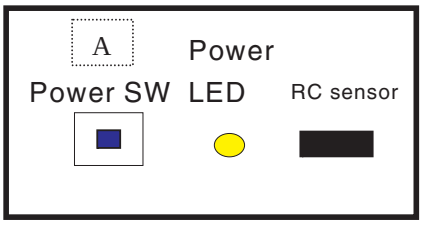
On screen display user control via keypad and remote control for PC and TV OSD.

3.2.1 Keypad definition

Top Control Panel



Front Control Panel



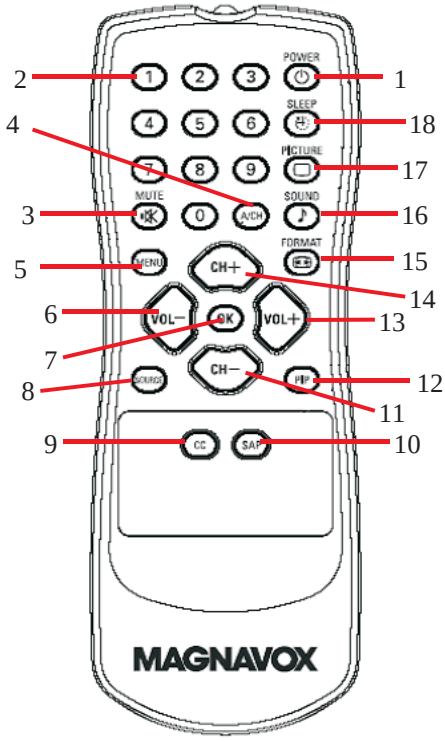
3.2.2 Key Function definition:

Key	Function	VGA mode	TV/video mode
<A>	Power	DC Power	DC Power
<B>	Left	Left/Volume down	Left/Volume down
<C>	Right	Right/Volume up	Right/Volume up
<D>	Menu	Enter /Exit OSD menu	Enter /Exit OSD menu
<E>	Menu Down/channel down	Menu line Down	Menu Down/Channel Down
<F>	Menu Up/Channel up	Menu line Up	Menu Up/Channel up

1. Press "MENU" key to call main menu.
2. By "Up/Down" to select function and "Left/Right" to adjust.
3. "Left/Right" also is Volume Hot Key (TV and PC mode).
4. "Up/Down" also is Channel Hot Key (TV mode).
5. Press hot Key <B> and <C> can auto-adjust picture position, phase and clock in PC mode.

Power LED:
Normal working: Green
Power saving: Amber

3.2.3 Remote control



1.Power	: Power On/Standby
2.Numerica keys	: (0~9) ,Channel setting
3.Mute	: Sound mute function
4.Prev-CH	: Recall previous CH
5.Menu	: Main menu select and OK key
6.VOL-	: Left/Volume Down
7.OK	: OK
8.Source	: Source select
9.Closed cap.	: Closed caption on/off
10.SAP(2nd audio)	: Sound select
11.CH-	: Down/Channel Down
12.PIP	: PIP size select (Small/Medium/Large/PBP)
13.VOL+	: Right/Volume Up
14.CH+	: Up/ Channel Up
15.Display Format	: Select display format
16.Smart Sound	: Select sound effect
17.Smart Picture	: Select picture effect
18.Sleep Timer	: Sleep timer 15,30,60,120,180,240 OFF

All PC or TV OSD menu function could be accomplished by remote control.

3.3 PC and TV requirement

3.3.1 PC interface

3.3.1.1 Mode storing capacity
Pre-set : 6
User modes : 8

3.3.1.2 Horizontal scanning

Sync polarity : Positive or Negative
Scanning frequency : 30 - 50 KHz

3.3.1.3 Vertical scanning

Sync polarity : Positive or Negative
Scanning frequency : 56 - 63 Hz

3.3.1.4 Input connectors

Input analog D-sub connector pin assignment

PIN No.	SIGNAL b(PC)
1	Red
2	Green
3	Blue
4	Self test
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	+5V (Supply from PC)
10	Sync GND
11	GND
12	Bi-directional data
13	H-sync
14	V-sync
15	Data clock

- 1.8m 15Pins, D-sub male with DDC2B Pin assignments.

3.3.1.5 Available timings

Factory pre-set timing, size and centering are according to the reference timing charts, The list is as below:

MODE NO.	1	2	3
RESOLUTION	640 x 480	800 x 600	800 x 600
Dot clock(MHz)	25.175	36.000	40.000
f h	31.469kHz	35.156kHz	37.879kHz
A (us)	31.778 (800 dots)	28.44 (1024 dots)	26.40 (1056 dots)
B (us)	3.813 (96 dots)	2.000 (72 dots)	3.200 (128 dots)
C (us)	1.907 (48 dots)	3.556 (128 dots)	2.200 (88 dots)
D (us)	25.422 (640 dots)	22.22 (800 dots)	20.00 (800 dots)
E (us)	0.636 (16 dots)	0.667 (24 dots)	1.000 (40 dots)
f v	60Hz (59.940)	56Hz (56.25)	60Hz (60.317)
O (ms)	16.683 (525 lines)	17.78 (625 lines)	16.58 (628 lines)
P (ms)	0.064 (2 lines)	0.057 (2 lines)	0.106 (4 lines)
Q (ms)	1.049 (33 lines)	0.626 (22 lines)	0.607 (23 lines)
R (ms)	15.253 (480 lines)	17.07 (600 lines)	15.84 (600 lines)
S (ms)	0.317 (10 lines)	0.028 (1 line)	0.026 (1 line)
SYNC. H/V POLARITY	- / -	+ / +	+ / +
SEP . SYNC	Y	Y	Y

MODE NO.	4	5	6
RESOLUTION	1024 x 768	1280X720	1280 x 768
Dot clock(MHz)	65.000	CVT 74.5	CVT 79.50
f h	48.363kHz	44.772kHz	47.776kHz
A (us)	20.677(1344 dots)	22.336(1664 dots)	20.931(1664 dots)
B (us)	2.092(136 dots)	1.718(128 dots)	1.610(128 dots)
C (us)	2.462(160 dots)	2.577(192 dots)	2.415(192 dots)
D (us)	15.754(1024 dots)	17.181(1280 dots)	16.101(1280 dots)
E (us)	0.369(24 dots)	0.859(64 dots)	0.805(64 dots)
f v	60Hz (60.004)	60Hz (59.855)	60Hz (59.87)
O (ms)	16.666(806 lines)	16.707(748 lines)	16.703(798 lines)
P (ms)	0.124(6 lines)	0.111678(5 lines)	0.1455(7 lines)
Q (ms)	0.600(29 lines)	0.4467(20 lines)	0.4186(20 lines)
R (ms)	15.880(768 lines)	16.082(720 lines)	16.075(768 lines)
S (ms)	0.062(3 lines)	0.067(3 lines)	0.0628(3 lines)
SYNC. H/V POLARITY	-/-	-/+	-/+
SEP . SYNC	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 length
S: V- Front porch

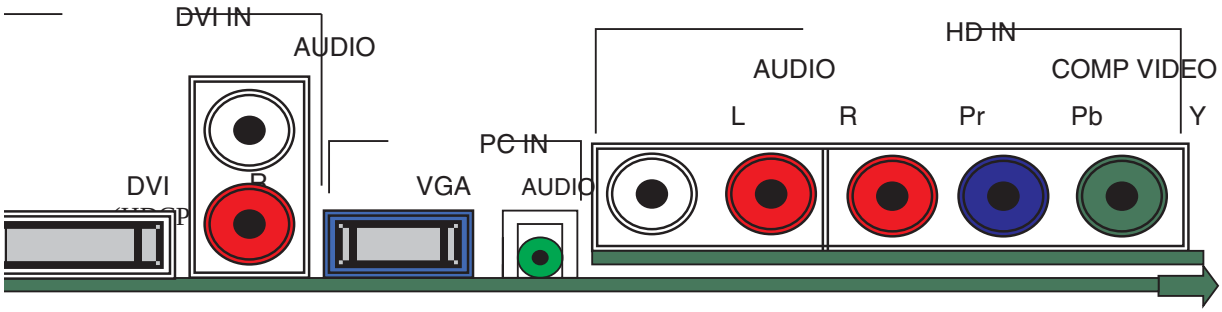
3.3.2 I/O interface

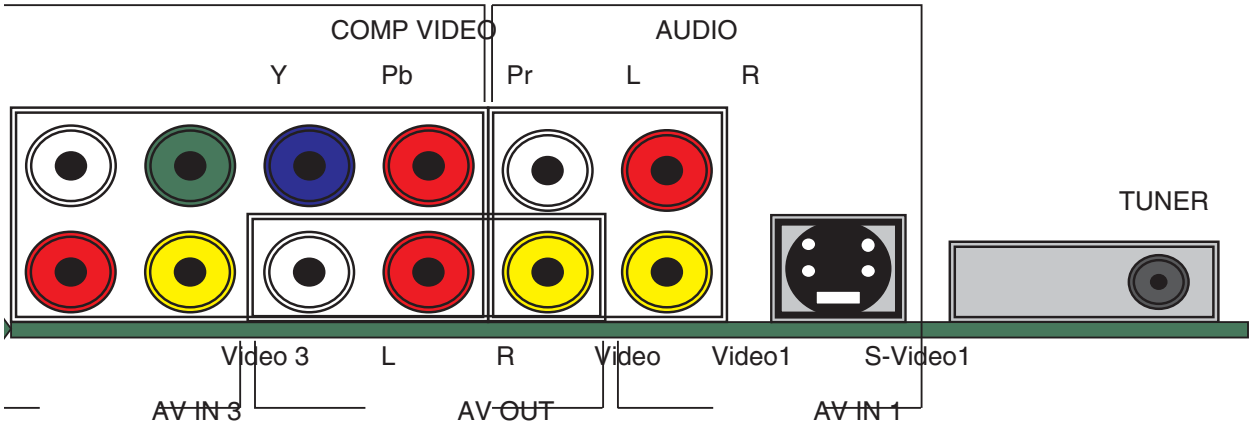
Connect:

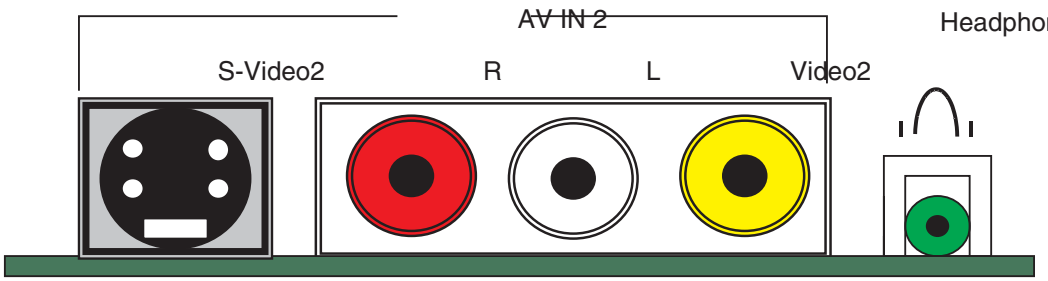
1. Tuner: RTMA M/N system reception.
2. DVI IN: DVI input (TV digital signal support HDCP) with audio R/L.
3. PC IN: VGA input (D-SUB connectors) with audio R/L(mini-jack).

4. HD IN: HDTV input with YPbPr format and audio R/L(RCA jack).
5. AV IN3: Component video YPbPr and composite video(Video 3) share with same audio R/L.
6. AV OUT: Composite video output (CVBS) and audio R/L(RCA jack).
7. AV IN1: Video1 (CVBS) and S-Video 1 share with same audio R/L.
8. AV IN2: Video2 (CVBS) and S-Video 2 share with same audio R/L.
9. Headphone out

Location:







CLASS NO.	26" Wide LCD Monitor / TV TYPE :26MF605W/17 BRAND : Magnavox			8639 000 16053			
2004-12-20							
NAME Peter Hsieh	SUPERS.	18	590 — 8	10		A4	
TY / CHECK	DATE 2004-12-20	Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-B.E.					

Following table is the deviation of main TV system.

Item	W EUROPE	America		AP	China
TV Color system	PAL, SECAM	NTSC		PAL/NTSC	PAL
Tuner	FQ1216ME5 Picture carrier 38.9MHz	FQ1236/F H-5 Picture carrier 45.75MHz	TSVN1-802FR3 Picture carrier 45.75MHz	FQ1216PN Picture carrier 38.9MHz	FQ1256/I H-3 Picture carrier 38MHz
V system	B/G, D/K, I, L	M		B/G , NTSC-M	D/K
Sound decoder	MSP3410G	MSP3440G		MSP3410G	MSP3410G
CVBS, YC Color system	Multi	Multi		Multi	Multi
Scaler MCU	WE version	NAFTA version		AP version	China version
Closed caption	N	Y		N	N
V-chip	N	Y		N	N
Teletext	N	N		N	N
Remote controller(RC5)	NAFTA version	NAFTA version		NAFTA version	NAFTA version
Channel number	100	US Air 68, cable 125		100	100

Following table is the detail TV System list.

TV system	Position of sound carrier (MHz)	Sound system	Color system	Country
M	4.5/4.724212	FM-Stereo (A2)	NTSC	Korea
	4.5	FM-FM (EIA-J)	NTSC	Japan
	4.5	BTSC-stereo SAP	NTSC	USA
N	4.5	BTSC-stereo SAP	PAL	Argentina
B/G	5.5/5.7421875	FM-stereo (A2)	PAL	Germany, Austria, Switzerland, Italy, Netherlands.
	5.5/5.85	FM-Mono/NICAM	PAL	Belgium, Spain, Denmark, Finland, Norway, Sweden.
L	6.5/5.85	AM-Mono/NICAM	SECAM-L	France
I	6.0/6.552	FM-Mono/NICAM	PAL	Great Britain, Hong Kong, Ireland.
D/K	6.5/6.2578125	FM-Stereo (A2, D/K1)	SECAM-East	Slovak. Rep.
	6.5/6.7421875	FM-Stereo (A2, D/K2)	PAL	None
	6.5/5.7421875	FM-Stereo (A2, D/K3)	SECAM-East	Poland
	6.5/5.85	FM-Mono/ NICAM (D/K, NICAM)	PAL	China, Hungary

3.3.2.1 TV special setting

Close Caption, V-chip (NAFTA Tuner, CVBS input source only)
- CC-1, CC-4 decoding and display
- TXT1, TXT4 Text mode
- No Extended Data Services (EDS)
- Support violence rating and checking
- Automatic CC-1 selection at user mute

3.3.3 Electric characteristics of I/O

3.3.3.1 PC Signal type

Analog Video : 0.7 Vp-p linear, positive polarity
Separate Sync. : TTL level, separate, positive or negative polarity
Audio signal : Mini-jack audio input,
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance > 10 kΩ.
Signal source : pattern generator format as attachment. (table 1 to 6)
Reference generator: CHROMA 2200 or 2250

3.3.3.2 TV Signal type

RF signal : Aerial input / 10mV(80dBuV)
Video signal : Video(RCA CVBS input) / 1Vpp (300mV-sync, 700mV-video.)
S video input / 1VppY-signal, 300mVpp C-signal
COMP Video(YPbPr input)/ 1Vpp Y signal, 350mVpp Pb,Pr signal
DVI : Digital interface with 4 channels TMDS signal
Audio signal : Audio (1) R/L for AV IN1 (Video1 and S-video1).
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance > 10 kΩ.
Audio (2) R/L for AV IN2 (Video2 and S-video2).
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance > 10 kΩ.
Audio (3) R/L for AV IN3 (Video3 and Comp video).
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance > 10 kΩ.
Audio (4) R/L for DVI IN.
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance > 10 kΩ.

3.3.3.3 PVR output (CVBS output)

Video: CVBS output 1Vpp / Impedance : 75Ω.
Audio: R/L output (from CVBS)
Level: Nominal : 0.5 V rms.
Maximum : 1.5 V rms.
Impedance < 1 kΩ.

3.3.3.4 Headphone output

Audio: R/L output -10mW at 32.
3.5mm stereo jack with switch
Impedance is between 8 and 600.

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

PC mode

The power consumption and the status indication of the set

with power management function are as follows:

			Power Spec		
STATUS	Horizontal	Vertical	$120V_{AC}$	$230V_{AC}$	LED
On	Pulse	Pulse	Typical	70W	Green
Stand-by	No Pulse	Pulse	< 1 W	< 1W	Amber
Suspend	Pulse	No Pulse	< 1 W	< 1W	Amber
Off	No Pulse	No Pulse	< 1 W	< 1 W	Amber
Power switch off	-	-	< 1 W	< 1 W	-

TV mode

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

	Power Spec		
STATUS	$120V_{AC}$	$230V_{AC}$	LED
On	Typical	105W	Green
Stand-by	< 1 W	< 1 W	Amber
Power switch off	< 1 W	< 1 W	-

In Monitor power saving mode,

Which no H&V sync or absent either H-sync or V-sync input via VGA connector. The monitor will enter "Monitor saving mode". The way to wake up or change source:

1. H-sync and V-sync have signal again.
2. Press "Source" key on remote control, change to video source directly.

In TV power saving mode,

Which switched off by RC "Power" key, SLEEP TIMER function or no TV signal input for 30 minutes, the monitor will enter "TV standby mode" and LED shows amber color. The way to wake up:

1. Press "Power" key on remote control to return original video source.
2. Press "Source" key on remote control, change to video source directly.

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 3.3.1.5, 1280 x 768 x 60Hz non-interlaced mode (47.776kHz), signal sources must have 75 ohm output impedance.
(2) Luminance setting: controls to be set to 500 Nits (typical) with full screen 700mv white signal.
(3) Warm up: more than 30 minutes after power on with signal supplied.
(4) Ambient light: 400 ~ 600 lux.
(5) Ambient temperature: 25 ± 2 °C

4.2 PC Resolution

	Resolution	Frequency	Pixel rate	Sync	Comment
1	640X480	31.469K/59.94Hz	25.175MHz	(-/-)	IBM VGA
2	800X600	35.156K/56.25Hz	36MHz	(+/+)	VESA
3	800X600	37.879K/60.317Hz	40MHz	(+/+)	VESA
4	1024X768	48.363K/60.004Hz	65MHz	(-/-)	VESA
5	1280X720	44.772K/59.855Hz	74.5MHz	(-/+)	CVT
6	1280X768	47.776K/59.87Hz	79.5MHz	(-/+)	CVT

4.3 Brightness

>400 nits at maximum contrast and Brightness. (At center of the screen, Fig. 1)

4.4 Image size

4.4.1 Actual display size 575.769mmx323.712mm

4.5 Brightness uniformity

Set contrast at 100% and turn the brightness to Max. (At original color)

Apply the Fig 1, it should comply with the following formula:

$$\frac{\text{Maximum luminance of five points (brightness)}}{\text{Minimum luminance of five points (brightness)}} < 1.3$$

4.6 PC White color adjustment

Apply 1280x768@60Hz mode set smart picture to "Normal", Apply full white pattern, with brightness in 50 % position and the contrast control at 50% position.

The 1931 CIE Chromaticity (color triangle) diagram (X, Y) coordinate for the screen center should be:

8500K CIE coordinates	X = 0.289 ± 0.030
	Y = 0.304 ± 0.030

4.7 TV White color adjustment

Smart picture set to personal for TV RF signal (80dBμv).
Use FLUKE 54200 pattern generator with full white pattern.
Use The 1931 CIE Chromaticity (color triangle) diagram (X, Y) coordinate for the screen center should be:
X=0.289+/-0.030, Y=0.304+/-0.030.

4.8 TV picture centering

Use CVBS (PAL and NTSC) input with cross hatch pattern to check the picture centering and should be

Left (size)-Right (size) < ± 3mm.
Up (size)-Down (size) < ± 3mm.

5.0 Mechanical characteristics

5.1 Controls

Top Control :
- Up key
- Down key
- Menu key
- Right key
- Left key

Front
- RC sensor
- DC power switch

Rear I/O :
- AC inlet
- DVI (Support HDCP) input
- L/R audio input for DVI
- PC D-sub
- Mini jack PC audio input
- L/R audio input for HD
- YPbPr video input for HD

- Tuner RF input
- S-Video1 input
- Composite video input (VIDEO 1)
- L/R audio input (S-video1 and Video1 share with same audio)
- Composite video output
- L/R audio output
- YPbPr video input for component
- Composite video input (Video 3)
- L/R audio input (Component and Video 3 share with same audio)

Side I/O :

- Headphone jack output
- S-Video 2 input
- Composite video input (Video 2)
- L/R Audio input (S-video 2 and Video 2 share with same audio)

5.2 Unit dimension / Weight

Set dimension (incl. pedestal): 820 mm W x 213 mm H x 480 mm D
Net weight : 11.5 Kg

5.3 Tilt base

Tilt angle : 0 to 20 degree

5.4 Transportation packages

5.4.1 Shipping dimension/Weight
Carton dimension : 927 mm W x 585 mm H x 347 mm D
Gross weight : 14 Kg

5.4.2 Block unit / Palletization (Sea shipment)

Container	layers/block	sets/layer	sets/block unit
40	3	3	9

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 : 0 to 40 ℃
- Humidity : 10 to 95%(non - condensing)
- Altitude : 0 to 12000 feet
- Air pressure : 600 to 1100 mBAR
- (guaranteed optical performance): 5 to 35 ℃
- (guaranteed functional performance): 5 to 40℃

Storage
- Temperature : -20 to 50 ℃
- Humidity : 10 to 95% (non - condensing)
- Air pressure : 600 to 1100 mBAR

Note: recommend at 0 to 35°C, Humidity less than 60 %

Shipping
- Temperature :(-20 to 50 ℃)
- Humidity : 10 to 95% (non - condensing)
- Altitude : 0 to 40000 feet (non operating)
- Air pressure : 600 to 1100 mBAR

6.2 Transportation tests

Standard		UAN-D1534/01
Drop Test	Height	61 cm
	Sequence	1 Corner - 3 Edag - 6Face Total 10 Drops
	Test Result	Electrical function ok Mechanical function ok No serious damage on set appearance (room temp./-10℃, humidity 70 %)
Vibration Test	Sequence	--- PACKAGING 73Grms Truck spectruh 5~500Hz, 30min for each axis, 3AXES
	Test Result	Electrical function ok Mechanical function ok No serious damage on set appearance

6.3 Display disturbances from external environment

According to IEC 801-2 for ESD disturbances

7.0 Reliability

7.1 Mean Time Between Failures

System MTBF (Excluding the LCD panel and CCFL) : 50,000 hrs
CCFL MTBF : 50,000 hrs

8.0 Quality assurance requirements

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

AQL : 0.65 (major)
2.5 (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 measure points

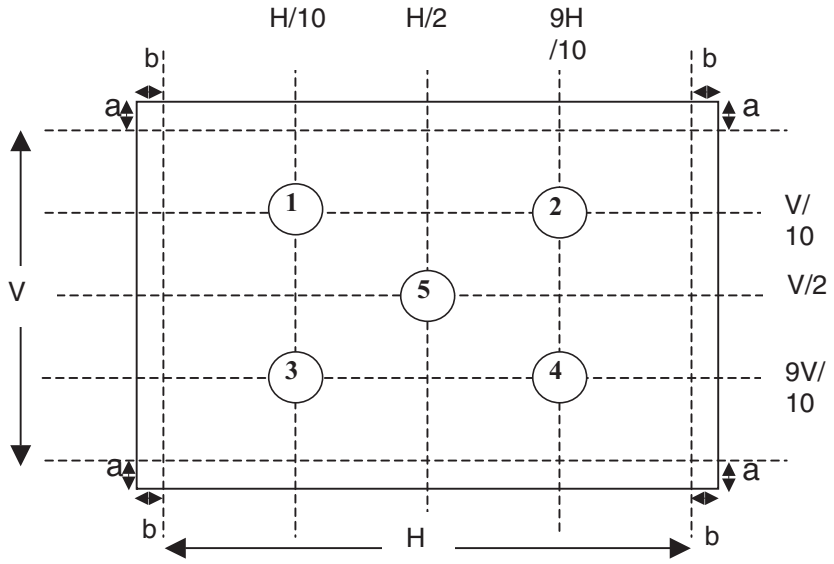


Table 1.

NAFTA TV Channels

US- Air broadcast channel

Broadcast Channel	Video Carrier (MHz)	Audio Carrier (MHz)	Range (MHz)
2	55.25	59.75	54-60
3	61.25	65.75	60-66
4	67.25	71.75	66-72
5	77.25	81.75	76-82
6	83.25	87.75	82-88
7	175.25	179.75	174-180
8	181.25	185.75	180-186
9	187.25	191.75	186-192
10	193.25	197.75	192-198
11	199.25	203.75	198-204
12	205.25	209.75	204-210
13	211.25	215.75	210-216
14	471.25	475.75	470-476
15	477.25	481.75	476-482
16	483.25	487.75	482-488
17	489.25	493.75	488-494
18	495.25	499.75	494-500
19	501.25	505.75	500-506
20	507.25	511.75	506-512
21	513.25	517.75	512-518
22	519.25	523.75	518-524
23	525.25	529.75	524-530
24	531.25	535.75	530-536
25	537.25	541.75	536-542
26	543.25	547.75	542-548
27	549.25	553.75	548-554
28	555.25	559.75	554-560
29	561.25	565.75	560-566
30	567.25	571.75	566-572
31	573.25	577.75	572-578

32	579.25	583.75	578-584
33	585.25	589.75	584-590
34	591.25	595.75	590-596
35	597.25	601.75	596-602
36	603.25	607.75	602-608
37	609.25	613.75	608-614
38	615.25	619.75	614-620
39	621.25	625.75	620-626
40	627.25	631.75	626-632
41	633.25	637.75	632-638
42	639.25	643.75	638-644
43	645.25	649.75	644-650
44	651.25	655.75	650-656
45	657.25	661.75	656-662
46	663.25	667.75	662-668
47	669.25	673.75	668-674
48	675.25	679.75	674-680
49	681.25	685.75	680-686
50	687.25	691.75	686-692
51	673.25	697.75	692-698
52	699.25	703.75	698-704
53	705.25	709.75	704-710
54	711.25	715.75	710-716
55	717.25	721.75	716-722
56	723.25	727.75	722-728
57	729.25	733.75	728-734
58	735.25	739.75	734-740
59	741.25	745.75	740-746
60	747.25	751.75	746-752
61	753.25	757.75	752-758
62	759.25	763.75	758-764
63	765.25	769.75	764-770
64	771.25	775.75	770-776
65	777.25	781.75	776-782
66	783.25	787.75	782-788
67	789.25	793.75	788-794
68	795.25	799.75	794-800
69	801.25	805.75	800-806

US-Cable channel

Cable Channel	Video carrier MHz	Audio carrier MHz	Range MHz
2	55.25	59.75	54-60
3	61.25	65.75	60-66
4	67.25	71.75	66-72
1	73.25	77.75	72-78
5	79.25	83.75	76-82
6	85.25	89.75	82-88
95	91.25	95.75	90-96
96	97.25	101.75	96-102
97	103.25	107.75	102-108
98	109.25	113.75	108-114
99	115.25	119.75	114-120
14	121.25	125.75	120-126
15	127.25	131.75	126-132
16	133.25	137.75	132-138
17	139.25	143.75	138-144
18	145.25	149.75	144-150

GENERAL PRODUCT SPECIFICATION(Continued)

19	151.25	155.75	150-156
20	157.25	161.75	156-162
21	163.25	167.75	162-168
22	169.25	173.75	168-174
7	175.25	179.75	174-180
8	181.25	185.75	180-186
9	187.25	191.75	186-192
10	193.25	197.75	192-198
11	199.25	203.75	198-204
12	205.25	209.75	204-210
13	211.25	215.75	210-216
23	217.25	221.75	216-222
24	223.25	227.75	222-228
25	229.25	233.75	228-234
26	235.25	239.75	234-240
27	241.25	245.75	240-246
28	247.25	251.75	246-252
29	253.25	257.75	252-258
30	259.25	263.75	258-264
31	265.25	269.75	264-270
32	271.25	275.75	270-276
33	277.25	281.75	276-282
34	283.25	287.75	282-288
35	289.25	293.75	288-294
36	295.25	299.75	294-300
37	301.25	305.75	300-306
38	307.25	311.75	306-312
39	313.25	317.75	312-318
40	319.25	323.75	318-324
41	325.25	329.75	324-330
42	331.25	335.75	330-336
43	337.25	341.75	336-342
44	343.25	347.75	342-348
45	349.25	353.75	348-354
46	355.25	359.75	354-360
47	361.25	365.75	360-366
48	367.25	371.75	366-372
49	373.25	377.75	372-378
50	379.25	383.75	378-384
51	385.25	389.75	384-390
52	391.25	395.75	390-396
53	397.25	401.75	396-402
54	403.25	407.75	402-408
55	409.25	413.75	408-414
56	415.25	419.75	414-420
57	421.25	425.75	420-426
58	427.25	431.75	426-432
59	433.25	437.75	432-438
60	439.25	443.75	438-444
61	445.25	449.75	444-450
62	451.25	455.75	450-456
63	457.25	461.75	456-462
64	463.25	467.75	462-468
65	469.25	473.75	468-474
66	475.25	479.25	474-480
67	481.25	485.75	480-486
68	487.25	491.75	486-492
69	493.25	497.75	492-498
70	499.25	503.75	498-504

CLASS NO.

2004-12-20

26" Wide LCD Monitor / TV
TYPE : 26MF605W/17
BRAND : Magnavox

8639 000 16053

NAME Peter Hsieh | SUPERS. | 18 | 590 — 17 | 10 | A4

TY | CHECK | DATE 2004-12-20

Property of PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.-B.E.

2838 100 05424

71	505.25	509.75	504-510
72	511.25	515.75	510-516
73	517.25	521.75	516-522
74	523.25	527.75	522-528
75	529.25	533.75	528-534
76	535.25	539.75	534-540
77	541.25	545.75	540-546
78	547.25	551.75	546-552
79	553.25	557.75	552-558
80	559.25	563.75	558-564
81	565.25	569.75	564-570
82	571.25	575.75	570-576
83	577.25	581.75	576-582
84	583.25	587.75	582-588
85	589.25	593.75	588-594
86	595.25	599.75	594-600
87	601.25	605.75	600-606
88	607.25	611.75	606-612
89	613.25	617.75	612-618
90	619.25	623.75	618-624
91	625.25	629.75	624-630
92	631.25	635.75	630-636
93	637.25	641.75	636-642
94	643.25	647.75	642-648
100	649.25	653.75	648-654
101	655.25	659.75	654-660
102	661.25	665.75	660-666
103	667.25	671.75	666-672
104	673.25	677.75	672-678
105	679.25	683.75	678-684
106	685.25	689.75	684-690
107	691.25	695.75	690-696
108	697.25	701.75	696-702
109	703.25	707.75	702-708
110	709.25	713.75	708-714
111	715.25	719.75	714-720
112	721.25	725.75	720-726
113	727.25	731.75	726-732
114	733.25	737.75	732-738
115	739.25	743.75	738-744
116	745.25	749.75	744-750
117	751.25	755.75	750-756
118	757.25	761.75	756-762
119	763.25	767.75	762-768
120	769.25	773.75	768-774
121	775.25	779.75	774-780
122	781.25	785.75	780-786
123	787.25	791.75	786-792
124	793.25	797.75	792-798
125	799.25	803.75	798-804

DDC Data

Go to cover page

THE DISPLAY DATA CHANNEL (DDC_2B) CONTENT INCLUDING:
(FOR 26MF605/17 ANALOG FOR LPL PANEL)

****
EDID log file
****

Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Analog Video Input
0.700V/0.000V (0.70Vpp)
without Blank-to-Black Setup
Separate Sync
Composite Sync
without Sync on Green
no Serration required

Maximum H Image Size : 58
Maximum V Image Size : 33

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : Standby
Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space : Primary color space
Preferred Timing Mode : Detailed timing block 1

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.34
Green X coordinate : 0.282
Green Y coordinate : 0.607
Blue X coordinate : 0.145
Blue Y coordinate : 0.066
White X coordinate : 0.275
White Y coordinate : 0.279

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)
800 x 600 @56Hz (VESA)
800 x 600 @60Hz (VESA)

Established Timings II : 1024 x 768 @60Hz (VESA)

Manufacturer's timings :

Standard Timing Identification #1
Horizontal active pixels : 1280
Aspect Ratio : 16:9
Refresh Rate : 60

Detailed Timing #1
Pixel Clock (MHz) : 79.5
H Active (pixels) : 1280
H Blanking (pixels) : 384
V Active (lines) : 768
V Blanking (lines) : 30
H Sync Offset (F Porch) (pixels): 64
H Sync Pulse Width (pixels) : 128
V Sync Offset (F Porch) (lines) : 3
V Sync Pulse Width (lines) : 7
H Image Size (mm) : 372
V Image Size (mm) : 223
H Border (pixels) : 0
V Border (lines) : 0
Flags : Non-interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Negative Horizontal Sync.

Monitor Descriptor #2
Serial Number : 12345

Monitor Descriptor #3
Monitor Name : 26MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 56
Max. Vt rate Hz : 63
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 50
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : 48 (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: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 6c 21: 3a 22: 21 23: 78
24: ce 25: c6 26: 0a 27: a3 28: 57 29: 48 30: 9b 31: 25
32: 11 33: 46 34: 47 35: 23 36: 08 37: 00 38: 81 39: c0
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: 0e 55: 1f
56: 00 57: 80 58: 51 59: 00 60: 1e 61: 30 62: 40 63: 80
64: 37 65: 00 66: 74 67: df 68: 10 69: 00 70: 00 71: 1c
72: 00 73: 00 74: 00 75: ff 76: 00 77: 31 78: 32 79: 33
80: 34 81: 35 82: 0a 83: 20 84: 20 85: 20 86: 20 87: 20
88: 20 89: 20 90: 00 91: 00 92: 00 93: fc 94: 00 95: 32
96: 36 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 38 114: 3f 115: 1e 116: 32 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: 48

(FOR 26MF605W/17 DIGITAL FOR LPL PANEL)

****

EDID log file

****

Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Digital Video Input

Maximum H Image Size : 58
Maximum V Image Size : 33

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : no Standby
no Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space: Primary color space

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.34
Green X coordinate : 0.282
Green Y coordinate : 0.607
Blue X coordinate : 0.145
Blue Y coordinate : 0.066
White X coordinate : 0.275
White Y coordinate : 0.279

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)

Established Timings II :

Manufacturer's timings :

Standard Timing Identification : Unused

Detailed Timing #1
Pixel Clock (MHz) : 74.25
H Active (pixels) : 1920
H Blanking (pixels) : 280
V Active (lines) : 540
V Blanking (lines) : 22
H Sync Offset (F Porch) (pixels): 88
H Sync Pulse Width (pixels) : 44
V Sync Offset (F Porch) (lines): 2
V Sync Pulse Width (lines) : 5
H Image Size (mm) : 576
V Image Size (mm) : 324
H Border (pixels) : 0
V Border (lines) : 0
Flags : Interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Positive Horizontal Sync.

Detailed Timing #2
Pixel Clock (Mhz) : 27
H Active (pixels) : 720
H Blanking (pixels) : 138
V Active (lines) : 480
V Blanking (lines) : 45
H Sync Offset (F Porch) (pixels): 16
H Sync Pulse Width (pixels) : 62
V Sync Offset (F Porch) (lines) : 9
V Sync Pulse Width (lines) : 6
H Image Size (mm) : 576
V Image Size (mm) : 324
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 #3
Monitor Name : 26MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 47
Max. Vt rate Hz : 61
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 47
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : C5 (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: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 80 21: 3a 22: 21 23: 78
24: 0c 25: c6 26: 0a 27: a3 28: 57 29: 48 30: 9b 31: 25
32: 11 33: 46 34: 47 35: 20 36: 00 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: 01 55: 1d
56: 80 57: 18 58: 71 59: 1c 60: 16 61: 20 62: 58 63: 2c
64: 25 65: 00 66: 40 67: 44 68: 21 69: 00 70: 00 71: 9e
72: 8c 73: 0a 74: d0 75: 8a 76: 20 77: e0 78: 2d 79: 10
80: 10 81: 3e 82: 96 83: 00 84: 40 85: 44 86: 21 87: 00
88: 00 89: 18 90: 00 91: 00 92: 00 93: fc 94: 00 95: 32
96: 36 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 2f 114: 3d 115: 1e 116: 2f 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: c5

DDC Data

Go to cover page

THE DISPLAY DATA CHANNEL (DDC_2B) CONTENT INCLUDING:
(FOR 32MF605/17 ANALOG FOR LPL PANEL)

****
EDID log file for LPL Panel
****
Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Analog Video Input
0.700V/0.000V (0.70Vpp)
without Blank-to-Black Setup
Separate Sync
Composite Sync
without Sync on Green
no Serration required

Maximum H Image Size : 69
Maximum V Image Size : 39

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : Standby
Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space : Primary color space
Preferred Timing Mode : Detailed timing block 1

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.343
Green X coordinate : 0.28
Green Y coordinate : 0.605
Blue X coordinate : 0.145
Blue Y coordinate : 0.065
White X coordinate : 0.285
White Y coordinate : 0.293

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)
800 x 600 @56Hz (VESA)
800 x 600 @60Hz (VESA)

Established Timings II : 1024 x 768 @60Hz (VESA)

Manufacturer's timings :

Standard Timing Identification #1
Horizontal active pixels : 1280
Aspect Ratio : 16:9
Refresh Rate : 60

Detailed Timing #1
Pixel Clock (MHz) : 79.5
H Active (pixels) : 1280
H Blanking (pixels) : 384
V Active (lines) : 768
V Blanking (lines) : 30
H Sync Offset (F Porch) (pixels) : 64
H Sync Pulse Width (pixels) : 128
V Sync Offset (F Porch) (lines) : 3
V Sync Pulse Width (lines) : 7
H Image Size (mm) : 697
V Image Size (mm) : 392
H Border (pixels) : 0
V Border (lines) : 0
Flags : Non-interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Negative Horizontal Sync.

Monitor Descriptor #2
Serial Number : 12345

Monitor Descriptor #3
Monitor Name : 32MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 56
Max. Vt rate Hz : 63
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 50
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : DA (HEX.)

****
EDID data (128 bytes) for LPL Panel
****

0: 00 1: ff 2: ff 3: ff 4: ff 5: ff 6: ff 7: 00
8: 41 9: 0c 10: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 6c 21: 45 22: 27 23: 78
24: ce 25: fc 26: 30 27: a3 28: 57 29: 47 30: 9b 31: 25
32: 10 33: 49 34: 4b 35: 23 36: 08 37: 00 38: 81 39: c0
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: 0e 55: 1f
56: 00 57: 80 58: 51 59: 00 60: 1e 61: 30 62: 40 63: 80
64: 37 65: 00 66: b9 67: 88 68: 21 69: 00 70: 00 71: 1c
72: 00 73: 00 74: 00 75: ff 76: 00 77: 31 78: 32 79: 33
80: 34 81: 35 82: 0a 83: 20 84: 20 85: 20 86: 20 87: 20
88: 20 89: 20 90: 00 91: 00 92: 00 93: fc 94: 00 95: 33
96: 32 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 38 114: 3f 115: 1e 116: 32 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: da

THE DISPLAY DATA CHANNEL (DDC_2B) CONTENT INCLUDING:
(FOR 32MF605/17 ANALOG FOR CPT PANEL)

****
EDID log file for CPT Panel
****
Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Analog Video Input
0.700V/0.000V (0.70Vpp)
without Blank-to-Black Setup
Separate Sync
Composite Sync
without Sync on Green
no Serration required

Maximum H Image Size : 69
Maximum V Image Size : 39

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : Standby
Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space : Primary color space
Preferred Timing Mode : Detailed timing block 1

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.325
Green X coordinate : 0.265
Green Y coordinate : 0.626
Blue X coordinate : 0.145
Blue Y coordinate : 0.061
White X coordinate : 0.283
White Y coordinate : 0.297

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)
800 x 600 @56Hz (VESA)
800 x 600 @60Hz (VESA)

Established Timings II : 1024 x 768 @60Hz (VESA)

Manufacturer's timings :

Standard Timing Identification #1
Horizontal active pixels : 1280
Aspect Ratio : 16:9
Refresh Rate : 60

Detailed Timing #1
Pixel Clock (MHz) : 79.5
H Active (pixels) : 1280
H Blanking (pixels) : 384
V Active (lines) : 768
V Blanking (lines) : 30
H Sync Offset (F Porch) (pixels) : 64
H Sync Pulse Width (pixels) : 128
V Sync Offset (F Porch) (lines) : 3
V Sync Pulse Width (lines) : 7
H Image Size (mm) : 697
V Image Size (mm) : 392
H Border (pixels) : 0
V Border (lines) : 0
Flags : Non-interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Negative Horizontal Sync.

Monitor Descriptor #2
Serial Number : 12345

Monitor Descriptor #3
Monitor Name : 32MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 56
Max. Vt rate Hz : 63
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 50
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : 05 (HEX.)

****
EDID data (128 bytes) for CPT Panel
****

0: 00 1: ff 2: ff 3: ff 4: ff 5: ff 6: ff 7: 00
8: 41 9: 0c 10: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 6c 21: 45 22: 27 23: 78
24: ce 25: dd 26: 28 27: a3 28: 53 29: 43 30: a0 31: 25
32: 0f 33: 48 34: 4c 35: 23 36: 08 37: 00 38: 81 39: c0
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: 0e 55: 1f
56: 00 57: 80 58: 51 59: 00 60: 1e 61: 30 62: 40 63: 80
64: 37 65: 00 66: b9 67: 88 68: 21 69: 00 70: 00 71: 1c
72: 00 73: 00 74: 00 75: ff 76: 00 77: 31 78: 32 79: 33
80: 34 81: 35 82: 0a 83: 20 84: 20 85: 20 86: 20 87: 20
88: 20 89: 20 90: 00 91: 00 92: 00 93: fc 94: 00 95: 33
96: 32 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 38 114: 3f 115: 1e 116: 32 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: 05

DDC Data

Go to cover page

(FOR 32MF605W/17 DIGITAL FOR LPL PANEL)

****
EDID log file for LPL Panel
****
Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Digital Video Input

Maximum H Image Size : 69
Maximum V Image Size : 39

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : no Standby
no Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space : Primary color space

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.343
Green X coordinate : 0.28
Green Y coordinate : 0.605
Blue X coordinate : 0.145
Blue Y coordinate : 0.065
White X coordinate : 0.313
White Y coordinate : 0.329

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)

Established Timings II :

Manufacturer's timings :

Standard Timing Identification : Unused

Detailed Timing #1
Pixel Clock (MHz) : 74.25
H Active (pixels) : 1920
H Blanking (pixels) : 280
V Active (lines) : 540
V Blanking (lines) : 22
H Sync Offset (F Porch) (pixels): 88
H Sync Pulse Width (pixels) : 44
V Sync Offset (F Porch) (lines) : 2
V Sync Pulse Width (lines) : 5
H Image Size (mm) : 697
V Image Size (mm) : 392
H Border (pixels) : 0
V Border (lines) : 0
Flags : Interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Positive Horizontal Sync.

Detailed Timing #2
Pixel Clock (Mhz) : 27
H Active (pixels) : 720
H Blanking (pixels) : 138
V Active (lines) : 480
V Blanking (lines) : 45
H Sync Offset (F Porch) (pixels) : 16
H Sync Pulse Width (pixels) : 62
V Sync Offset (F Porch) (lines) : 9
V Sync Pulse Width (lines) : 6
H Image Size (mm) : 697
V Image Size (mm) : 392
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 #3
Monitor Name : 32MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 47
Max. Vt rate Hz : 61
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 47
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : C7 (HEX.)

****
EDID data (128 bytes) for LPL Panel
****

0: 00 1: ff 2: ff 3: ff 4: ff 5: ff 6: ff 7: 00
8: 41 9: 0c 10: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 80 21: 45 22: 27 23: 78
24: 0c 25: fc 26: 35 27: a3 28: 57 29: 47 30: 9b 31: 25
32: 10 33: 50 34: 54 35: 20 36: 00 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: 01 55: 1d
56: 80 57: 18 58: 71 59: 1c 60: 16 61: 20 62: 58 63: 2c
64: 25 65: 00 66: b9 67: 88 68: 21 69: 00 70: 00 71: 9e
72: 8c 73: 0a 74: d0 75: 8a 76: 20 77: e0 78: 2d 79: 10
80: 10 81: 3e 82: 96 83: 00 84: b9 85: 88 86: 21 87: 00
88: 00 89: 18 90: 00 91: 00 92: 00 93: fc 94: 00 95: 33
96: 32 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 2f 114: 3d 115: 1e 116: 2f 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: c7

(FOR 32MF605W/17 DIGITAL FOR CPT PANEL)

****
EDID log file for CPT Panel
****

Vendor/Product Identification
ID Manufacturer Name : PHL
ID Product Code : 0000 (HEX.)
ID Serial Number : 79 (HEX.)
Week of Manufacture : 4
Year of Manufacture : 2005

EDID Version, Revision
Version : 1
Revision : 3

Basic Display Parameters/Features
Video Input Definition : Digital Video Input

Maximum H Image Size : 69
Maximum V Image Size : 39

Display Transfer Characteristic : 2.2
(gamma)

Feature Support (DPMS) : no Standby
no Suspend
no Active Off

Display Type : RGB color display
Standard Default Color Space : Primary color space

Color Characteristics
Red X coordinate : 0.64
Red Y coordinate : 0.325
Green X coordinate : 0.265
Green Y coordinate : 0.626
Blue X coordinate : 0.145
Blue Y coordinate : 0.061
White X coordinate : 0.313
White Y coordinate : 0.329

Established Timings
Established Timings I : 640 x 480 @60Hz (IBM,VGA)

Established Timings II :

Manufacturer's timings :

Standard Timing Identification : Unused

Detailed Timing #1
Pixel Clock (MHz) : 74.25
H Active (pixels) : 1920
H Blanking (pixels) : 280
V Active (lines) : 540
V Blanking (lines) : 22
H Sync Offset (F Porch) (pixels): 88
H Sync Pulse Width (pixels) : 44
V Sync Offset (F Porch) (lines) : 2
V Sync Pulse Width (lines) : 5
H Image Size (mm) : 697
V Image Size (mm) : 392
H Border (pixels) : 0
V Border (lines) : 0
Flags : Interlaced
: Normal Display, No stereo
: Digital Separate sync.
: Positive Vertical Sync.
: Positive Horizontal Sync.

Detailed Timing #2
Pixel Clock (MHz) : 27
H Active (pixels) : 720
H Blanking (pixels) : 138
V Active (lines) : 480
V Blanking (lines) : 45
H Sync Offset (F Porch) (pixels) : 16
H Sync Pulse Width (pixels) : 62
V Sync Offset (F Porch) (lines) : 9
V Sync Pulse Width (lines) : 6
H Image Size (mm) : 697
V Image Size (mm) : 392
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 #3
Monitor Name : 32MF605W/17

Monitor Descriptor #4
Monitor Range Limits
Min. Vt rate Hz : 47
Max. Vt rate Hz : 61
Min. Horiz. rate kHz : 30
Max. Horiz. rate kHz : 47
Max. Supported Pixel : 80

No secondary GTF timing formula supported.

Extension Flag : 0

Check sum : FA (HEX.)

****
EDID data (128 bytes) CPT Panel
****

0: 00 1: ff 2: ff 3: ff 4: ff 5: ff 6: ff 7: 00
8: 41 9: 0c 10: 00 11: 00 12: 79 13: 00 14: 00 15: 00
16: 04 17: 0f 18: 01 19: 03 20: 80 21: 45 22: 27 23: 78
24: 0c 25: dd 26: 25 27: a3 28: 53 29: 43 30: a0 31: 25
32: 0f 33: 50 34: 54 35: 20 36: 00 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: 01 55: 1d
56: 80 57: 18 58: 71 59: 1c 60: 16 61: 20 62: 58 63: 2c
64: 25 65: 00 66: b9 67: 88 68: 21 69: 00 70: 00 71: 9e
72: 8c 73: 0a 74: d0 75: 8a 76: 20 77: e0 78: 2d 79: 10
80: 10 81: 3e 82: 96 83: 00 84: b9 85: 88 86: 21 87: 00
88: 00 89: 18 90: 00 91: 00 92: 00 93: fc 94: 00 95: 33
96: 32 97: 4d 98: 46 99: 36 100: 30 101: 35 102: 57 103: 2f
104: 31 105: 37 106: 0a 107: 20 108: 00 109: 00 110: 00 111: fd
112: 00 113: 2f 114: 3d 115: 1e 116: 2f 117: 08 118: 00 119: 0a
120: 20 121: 20 122: 20 123: 20 124: 20 125: 20 126: 00 127: fa

Different Parts List

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Diversity of 32MF605W/17 compared with 26MF605W/17

Item	12NC	Description
	863900016051	32MF605W/17
0011	313815758401	BEZEL ASSY
0030	313815415061	BEZEL
0040	313815415071	BACK COVER
0041	313815415081	CABLE COVER
0051	313815758901	MAIN FRAME ASSY-LPL
0051	313815758911	MAIN FRAME ASSY(CPT)
0056	313815758621	MAIN SHIELD ASSY
0126	313815566411	RATING LABEL
0131	313815567051	CARTON STICKER
0132	313815415621	DOOR BASE
0291	313815566431	LABEL-LPL
0291	313815566441	LABEL-CPT
0291	313815566433	LABEL-LPL
0292	313815566431	LABEL-LPL
0292	313815566441	LABEL-CPT
0292	313815566433	LABEL-LPL
0450	313815639441	CARTON
0450	313815639442	CARTON
0451	313815639431	CUSHION-LEFT
0452	313815639421	CUSHION-RIGHT
0615	313811708211	HEX CODE OF F/W (NO MATL REQ)
0615	313811708221	HEX CODE OF F/W (NO MATL REQ)
0615	313811708213	HEX CODE OF F/W (NO MATL REQ)
1050	823827717361	LCD LC320W01 (series)
1050	823827717491	TFT-LCD CLAA320WA01
1051	313815860971	SCALER PCB ASSY(LPL 32)
1052	313815861261	POWER PCB ASSY (FL-1 32")
1057	313815861161	SCALER PCB ASSY(CPT 32)
1057	313815860971	SCALER PCB ASSY(LPL 32)
1180	313815861271	MAIN FRAME+WIRE ASSY
1180	313815861281	MAIN FRAME+WIRE ASSY(CPT-32")
1185	823827717531	LSP 8R 10W OPN FULR O58X127Y
1186	823827717531	LSP 8R 10W OPN FULR O58X127Y
1731	242254301364	RES XTL SM 18M432 16P SMD-49 R
2055	823827736017	MPP 2U2 450V
2077	203830150142	CAP PP PPN 100V S 4N7 PM5 A
2336	202203100195	ELCAP SM HV 16V 47U PM20 R
2404	202203100195	ELCAP SM HV 16V 47U PM20 R
2507	202055296507	CER2 1206 Y5V 10V 10U P8020 R
2517	202203100195	ELCAP SM HV 16V 47U PM20 R
3078	213811201564	RST SM 0805 RC05 560K PM5 R
3087	212210101518	RST CRB CF1/6 A 330K PM5 A
3519	212211805678	RST SM 0603 RC0603 47K PM5 R
3521	232270260472	RST SM 0603 RC21 4K7 PM5 R
3522	232270260472	RST SM 0603 RC21 4K7 PM5 R
3526	232270260472	RST SM 0603 RC21 4K7 PM5 R
3539	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3831	212211805667	RST SM 0603 RC0603 6K8 PM5 R
3832	212211805667	RST SM 0603 RC0603 6K8 PM5 R
5004	242254900451	IND FXD 1206 EMI 100MHZ 80R R
5055	823827715741	PFC COIL
5123	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5124	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5125	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5301	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5302	242254900442	IND FXD 0603 EMI 100MHZ 600R R
5303	242254900442	IND FXD 0603 EMI 100MHZ 600R R
5304	242254900442	IND FXD 0603 EMI 100MHZ 600R R
5305	242254900442	IND FXD 0603 EMI 100MHZ 600R R
5306	242254900442	IND FXD 0603 EMI 100MHZ 600R R
5421	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5422	242254900449	IND FXD 0805 EMI 100MHZ 200R R
5801	242254900451	IND FXD 1206 EMI 100MHZ 80R R
5841	242254900451	IND FXD 1206 EMI 100MHZ 80R R
5842	242254900451	IND FXD 1206 EMI 100MHZ 80R R
7502	313815861011	CPU ASSY(7502) LPL
7502	313815861241	CPU ASSY(7502)CPT
7503	313815861231	EEPROM ASSY(7503) LPL
7503	313815861251	EEPROM ASSY(7503)CPT
7814	932222037668	IC SM TPA3008D2PHP (TI00) R
8161	313819874851	CBLE -001 2/400/2 -012 AWG28
8162	313819874861	CBLE -016 6/660/6-016 AWG28
8163	313819874881	CBLE -018 8/520/8-388 AWG28
8163	313819874882	CBLE -018 8/520/8-388 AWG28
8164	313819874871	CBLE -014 4/640/4-384 AWG28
8164	313819874872	CBLE -014 4/640/4-384 AWG28
8165	313819874901	CBLE FAST/650+740/3-123 AWG26
8166	313819874891	CBLE FAST/420+510/2-392 AWG26
8166	313819874892	CBLE FAST/420+510/2-392 AWG26
8167	313819874841	CBLE -392 12/270+580/12-022
8167	313819874921	CBLE-392 12/230/14 -024 AWG26
8174	313819874911	CBLE-130 30/250/30 -033 AWG28

Diversity of 26MF605W/17(QDI) compared with 26MF605W/17(LPL)

Item	12NC	Description
	863900016053	26MF605W/17(QDI)
0001	313810360171	KEY BOARD
0040	313815415002	BACK COVER
0056	313815136581	MAIN SHIELD
0105	253819700002	SCR HI-LO
0107	313815040511	NUT-AUDIO JACK
0110	313815321471	RUBBER PAD(15 x 13 x T3)
0126	313815566102	RATING LABEL
0129	313810650281	P.E. BAG (INSTR. BOOK)
0131	313815567041	CARTON STICKER
0141	313815523382	QUICK SETUP GUIDE
0143	313815522911	MAGNAVOX WARRANTY CARD
0145	313815523445	OWNER'S MANUAL
0174	313815160891	HEATSINK
0176	313815161771	COPPER BOSS
0181	313815415561	IR HOLDER
0182	313815415571	LED HOLDER
0185	313815161801	HEAT SINK - BRIGE DIODE
0187	252240189008	NUT HEX ST BLK M3
0191	313815161781	HEAT SINK-PW DIODE
0194	313815161791	HEAT SINK-PW TRANS
0197	313815321341	INSULATING PLATE
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0289	313800992061	PROCESS BOX
0290	313800992071	PROCESS BOX
0291	313815567791	LABEL(QDI)
0291	313815566113	LABEL
0292	313815567791	LABEL(QDI)
0292	313815566113	LABEL
0450	313815639412	CARTON
0451	313815639402	CUSHION-L
0452	313815639392	CUSHION-R
0458	313815636362	P.E.BAG 275x320 mm
0615	313811708233	HEX CODE OF F/W (NO MATL REQ)

1050	823827718431	TFT-LCD MOD QD26HL01 REV.01
1051	823827716541	AC INLET 7014
1052	242208600208	FUSE 5X20 HT 4A 250V IEC B
1057	313815861291	SCALER ASSY-2(NAFTA26"QDI)
1057	313815861141	SCALER PCB ASSY(LPL 26)
1058	313815859161	POWER ASSY
1111	243803100429	SOC PHONE H 1P F 3.5 ST B
1177	313818876621	CON ACC ADP V 01P M 0.00/NTSC
1628	242202605768	SOC PHONE V 1P F 3.5 ST BK B
1719	243803100431	SOC MDIN H 4P F 69015 B
2055	202233300458	CAP MPP 450V S 1U5 PM5 B
2060	202203100392	ELCAP HS 450V S 120U PM20 B
2061	225261808221	CER2 DC Y5P 500V S 2N2 PM10 A
2066	203803521302	ELCAP GS 25V S 4U7 PM20 A
2079	202203100386	ELCAP EB 35V S 1000U PM20 B
2080	202203100386	ELCAP EB 35V S 1000U PM20 B
2447	223886715568	CER1 0603 NP0 50V 5P6 PM0P5 R
2455	223886715229	CER1 0603 NP0 50V 22P PM5 R
2456	223886715229	CER1 0603 NP0 50V 22P PM5 R
2457	223886715229	CER1 0603 NP0 50V 22P PM5 R
3012	232270463092	RST SM 0603 RC22H 3K09 PM1 R
3043	232270463302	RST SM 0603 RC22H 3K3 PM1 R
3045	232270462873	RST SM 0603 RC22H 28K7 PM1 R
3056	213811201822	RST SM 0805 RC05 8K2 PM5 R
3060	232271161333	RST SM 1206 RC01 33K PM5 R
3062	232273061689	RST SM 0805 RC11 68R PM5 R
3071	212261200074	NTC DC SCK-034 S 3R PM15 A
3078	232273061334	RST SM 0805 RC11 330K PM5 R
3401	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3437	232270260279	RST SM 0603 RC21 27R PM5 R
3438	232270260279	RST SM 0603 RC21 27R PM5 R
3439	232270260279	RST SM 0603 RC21 27R PM5 R
3440	232270260279	RST SM 0603 RC21 27R PM5 R
3441	232270260279	RST SM 0603 RC21 27R PM5 R
3442	232270260279	RST SM 0603 RC21 27R PM5 R
3530	212211805631	RST SM 0603 JUMP. MAX 0R05 R
3772	212211805687	RST SM 0603 RC0603 470K PM5 R
3773	212211805687	RST SM 0603 RC0603 470K PM5 R
3774	212211805687	RST SM 0603 RC0603 470K PM5 R
3775	212211805687	RST SM 0603 RC0603 470K PM5 R
3776	212211805687	RST SM 0603 RC0603 470K PM5 R
3777	212211805687	RST SM 0603 RC0603 470K PM5 R
3778	212211805687	RST SM 0603 RC0603 470K PM5 R
3779	212211805687	RST SM 0603 RC0603 470K PM5 R
5004	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5051	823827716711	LINE FILTER RING CORE
5052	243853598026	IND FXD BEAD EMI 100MHZ 35R R
5053	243853598026	IND FXD BEAD EMI 100MHZ 35R R
5054	823827716941	LINE FILTER ET28
5055	242254900497	FIL PFC 430UH 0R19 S4084 Y
5058	313816874511	FERRITE BEAD
5059	313816874511	FERRITE BEAD
5071	242254900503	TFM SMT LAYER HJC-S4143 WIRE Y
5074	242253601102	IND FXD OL1028H S 10U PM10 Y
5079	242253601102	IND FXD OL1028H S 10U PM10 Y
5801	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5841	242254900482	IND FXD 1206 EMI 100MHZ 80R R
5842	242254900482	IND FXD 1206 EMI 100MHZ 80R R
6057	933563850673	DIO REC RGP15J-E3 A (VISH) A
7056	932222284682	IC L6562N (ST00) L
7057	932217923687	FET POW STP20NM60 (ST00) L
7071	932222181687	FET POW STP45NF3LL (ST00) L
7502	313815861301	CPU ASSY(QDI 26")
7503	313815861311	EEPROM ASSY(QDI 26")
8162	313819874772	CBLE-016 6/540/6-016 AWG28
8163	313819874782	CBLE-018 8/335/8 -388 AWG28
8164	313819874792	CBLE-014 4/490/4 -384 AWG28
8167	313819876021	CBLE -392 12/360/14-024 AWG26

Different Parts List

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According to ECO-CA005304,There are new version power PCB. The following is the difference(Just spare parts) between the new version and the initial version power PCB.

313815859161 POWER ASSY(FL-1 26")

313815861261 POWER PCB ASSY (FL-1 32")

Action	Item	12NC	Description
From	0001	313810360914	POWER PCB
To	0001	313810360915	POWER PCB
New	1061	242254900746	SURGE PROTECT GS41-201MA A
New	1062	242254900746	SURGE PROTECT GS41-201MA A
New	1063	242254900746	SURGE PROTECT GS41-201MA A
New	1064	242254900746	SURGE PROTECT GS41-201MA A
New	3099	823827736024	VARISTOR 510V 10U
New	5062	243853598026	IND FXD BEAD EMI 100MHZ 35R R
New		313816872621	BEAD COIL (BF30TA-2.5X3X1B)
Del	6057	933563850673	DIO REC RGP15J-E3 A (VISH) A
From	6062	932215305685	DIO SIG SM BAV103 (VISH) R
		933699360115	DIO SIG SM BAV103 (PHSE) R
		933952580685	DIO SIG SM BAV103 (VISH) R
To	6062	932212669673	DIO REC BYT42D A (VISH) A
		932221087673	DIO REC RGP10D A (GULF) A
		933751660673	DIO REC RGP10D-E3 A (VISH) A
Del	9053	313810134331	TIN PLATING COPPER WIRE
		313810134341	TIN PLATING COPPER WIRE
Del	9054	313810134331	TIN PLATING COPPER WIRE
		313810134341	TIN PLATING COPPER WIRE

Updated for new panel

According to ECO-CA004556,There is new LCD Panel, The following is the difference (just spare parts)between the new LCD Panel and the initial version.

Action	Item	12NC	Description
From	1050	823827717361	LCD LC320W01-A6K1
To	1050	823827718481	LCD LC320W01-SL01
From	1057	313815860971	SCALER PCB ASSY(LPL 32)
To	1057	313815861321	SCALER PCB ASSY WITH AI(LPL-32
From	8174	313819874731	CBLE-130 30/260/30-033 AWG28
To	8174	313819876381	CBLE-130 30/260/30-033 AWG28
From	0291	313815566433	LABEL-LPL
To	0291	313815566434	LABEL-LPL
From	0615	313811708213	HEX CODE OF F/W (NO MATL REQ)
To	0615	313811708214	HEX CODE OF F/W (NO MATL REQ)

TELEVISION/MONITOR SAFFTY GUIDELINES FOR THE PROFESSIONAL SERVICE TECHNICIAN

Safety Checks

After the original service problem has been corrected,a complete safety check should be made. Be sure to check over the entire set, not just the areas where you have worked. Some previous servicer may have left an unsafe condition,which could be unknowingly passed on to your customer. Be sure to check all of the following:

Fire and Shock Hazard

1. Be sure all components are positioned in such a way as to avoid the possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the service shop.
2. Never release a repaired unit unless all protective devices such as insulators, barries, covers, strain reliefs, and other hardware have been installed in accordance with the original design.
3. Soldering and wiring must be inspected to locate possible cold solder joints,solder splashes,sharp solder points, frayed leads, pinched leads, or damaged insulation (including the ac cord).Be certain to remove loose solder balls and all other loose foreign particles.
4. Check across-the-line components and other components for physical evidence of damage or deterioration and replace if necessary. Follow original layout,lead length, and dress.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces or edges must be avoided.
6. Critical components having special safety characteristics are identified with ans 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 symbols on the schematic diagrams and/or exploded views.
7. When servicing any unit, always use a separate isolation transformer for the chassis Failure to use a separate isolation transformer may expose you to possible shock hazard, and may cause damage to servicing instruments.
8. Many electronic products use a polarized ac line cord (one wide pin on the plug.) Defeating this safety feature may create a potential hazard to the service and the user. Extension cords which do not incorporate the polarizing feature should never be used.
9. After reassembly of the unit, always perform an leakage test or resistance test from the line cord to all exposed metal parts of the cabinet. Also check all metal control shafts(with knobs removed), antenna terminals, handles, screws, etc. to be sure the unit may be safety operated without danger of electrical shock.

* Broken line

Implosion

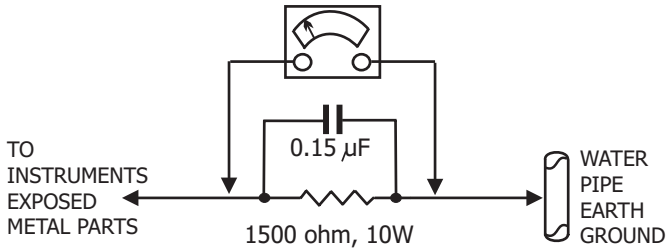
1. All picture tubes used in current model receivers are equipped with an integral implosion system. Care should always be used, and safety glasses worn,whenever handling any picture tube. Avoid scratching or otherwise damaging the picture tube during installation.
2. Use only replacement tubes specified by the manufacturer.

X-radiation

1. Be sure procedures and instructions to all your service personnel cover the subject of X-radiation. Potential sources of X-rays in TV receivers are the picture tube and the high voltage circuits. The basic precaution which must be exercised is to keep the high voltage at the factory recommended level.
2. To avoid possible exposure to X-radiation and electrical shock, only the manufacturer's specified anode connectors must be used.
3. It is essential that the service technician has an accurate HV meter available at all times. The calibration of this meter should be checked periodically against a reference standard.
4. When the HV circuitry is operating properly there is no possibility of an x-radiation problem. High voltage should always be kept at the manufacturer's rated value-no higher - for optimum performance. Every time a color set is serviced, the brightness should be run up and down while monitoring the HV with a meter to be certain that the HV is regulated correctly and does not exceed the specified value. We suggest that you and your technicians review test procedures so that HV and HV regulation are always checked as a standard servicing procedure, and the reason for this prudent routine is clearly understood by everyone. It is important to use an accurate and reliable HV meter. It is recommended that the HV recorded on each customer's invoice, which will demonstrate a proper concern for the customer's safety.
5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, reduce the line voltage by means of a Variac to bring the HV into acceptable limits while troubleshooting. Do
6. New picture tubes are specifically designed to withstand higher operathng voltages without creating undesirable X-radiation. It is strongly recommended that any shop test fixture which is to be used with the new higher voltage chassis be equipped with one of the new type tubes designed for this service. Addition of a permanently connected HV meter to the shop test fixture is advisable. The CRT types used in these new sets should never be replaced with any other types, as this may result in excessive X-radiation.
7. It is essential to use the specified picture tube to avoid a possible X-diation problem.
8. Most TV receivers contain some type of emergency "Hold Down" circuit to prevent HV from rising to excessive levels in the presence of a failure mode. These various circuits should be understood by all technicians servicing them, especially since many hold down circuits are inoperative as long as the receiver performs normally.

Leakage Current Cold Check

1. Unplug the ac line cord and connect a jumper between the two prongs of the plug.
2. Turn on the power switch.
3. Measure the resistance value between the jumpered ac plug and all exposed cabinet parts of the receiver, such as screw heads, antennas, and control shafts. When the exposed metallic part has a return path to the chassis, the reading should be between 1 megohm and 5.2 megohms. When the exposed metal does not have a return path to the chassis, the reading must be infinity. Remove the jumper from the ac line cord.



Leakage Current Hot Check

1. Do not use an isolation transformer for this test. Plug the completely reassembled receiver directly into the ac outlet.
2. Connect a 1.5k, 10w resistor paralleled by a 0.15uf. capacitor between each exposed metallic cabinet part and a good earth ground such as a water pipe, as shown above.
3. Use an ac voltmeter with at least 5000 ohms volt sensitivity to measure the potential across the resistor.
4. The potential at any point should not exceed 0.75 volts. A leakage current tester may be used to make this test; leakage current must not exceed 0.5 milliamps. If a measurement is outside of the specified limits, there is a possibility of shock hazard. The receiver should be repaired and rechecked before returning it to the customer.
5. Repeat the above procedure with the ac plug reversed.(Note: An ac adapter is necessary when a polarized plug is used. Do not defeat the polarizing feature of the plug.)

Picture Tube Replacement

The primary source of X-radiation in this television receiver is the picture tube. The picture tube utilized in this chassis is specially constructed to limit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original, including suffix letter, or a Philips approved type.

Parts Replacement

Many electrical and mechanical parts in Philips television sets have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. The use of a substitute part which does not have the same safety characteristics as the Philips recommended replacement part shown in this service manual may create shock, fire, or other hazards

WARNING : Before removing the CRT anode cap, turn the unit **OFF** and short the HIGH VOLTAGE to the CRT DAG ground.
SERVICE NOTE : The CRT DAG is not at chassis ground.