

Service Manual

ViewSonic VP171/s/b-1

Model No. VLCDS25972-1W

VLCDS25972-2W

VLCDS25972-3W

17" Color TFT LCD Display

(VP171/s/b-1_SM_680-Rev. 1a – 05 2003)

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Revision History

Revision	Date	Description Of Changes	Approval
1a	28/06/03	Initial Release DCN- 3382	F.Fan

Preface

*This manual is prepared for the maintenance service for the VP171**slb** series LCD Panel Monitor. Maintenance procedures described in this manual are intended to isolate faulty parts and replace them in the field. It also aims to serve as a guide in procuring replacement parts for this product.*

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This manual includes system overview, major system assembly, components' description, and the "Troubleshooting" makes explanations on how to detect errors. It also includes a flow chart for checking or correcting faults.

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The information found in this manual is subject to change without prior notice. Any subsequent changes made to the data herein will be incorporated in future edition.

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1. Introduction

This manual provides the integral information you need to maintain the LCD Monitor, and the manual is applied to the mode of 1280*1024 resolution and 17" SXGA TFT LCD Monitor. There are ten topics in this manual, and you can immediately identify problems through the manual.

This manual is for the technicians and people with an electronics background. Send the product back to the distributor for repairing and do not attempt to do anything which is complex or isn't mentioned in the Troubleshooting.

1-1 The Appropriate Operation

- Turn off the product before cleaning.
- Use only a dry soft cloth when cleaning the LCD panel surface.
- Use a soft cloth moistured with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not used for a long period of time.
- Do not touch the **CRT** panel surface with sharp or hard objects.
- Do not use abrasive cleaners, waxes or solvents for your cleaning.
- Do not operate the product under the following conditions :
 - 1.) Extremely hot, cold or humid environment.
 - 2.) Areas susceptible to excessive dust and dirt.
 - 3.) Near any appliance generating a strong magnetic field.
 - 4.) Place in direct sunlight.

1-2 **Product Highlight**

- Dual Analog and Digital Signal Input
- Active matrix TFT LCD Technology
- 1280*1024 addressable pixels
- 260 cd/m² brightness (Typ.)
- 30-82kHz Horizontal Frequency
- 50-85Hz Vertical Refresh Rate
- Wide Viewing Angle Technology
- Auto-Adjustment
- Multifunction OSD User Controls
- VESADPMS Power Saving
- High quality full screen re-scaling capability

1-3 Technical Specification

LCD Technology	-AU Panel -PVA Active Matrix -17" diagonal screen size -1280*1024 addressable pixels -0.264mm*0.264mm pixel pitch -260cd/m ² (Typ.) Brightness -500:1 (Typ.) Contrast ratio -L/R=70°/70°, U/D=70°/70° Viewing Angle, CR>=10(Typ.) -tr=12ms (Typ.)/tf=4ms(Typ.) response time -4 CCFL backlight lamps -Backlight Life : 40K Hrs(Typ.), 30K Hrs(Min.)
Display Resolution	-1280 pixels(H)*1024 lines(V)
Active Display Area	-337.9mm(H)*270.3mm(V)
Displayable Color	-16.2M Colors
Horizontal Scan	-30 to 82kHz
Vertical Refresh	-50 to 85 Hz
Max. Pixel Clock	-135MHz
Auto-Adjustment	-Yes
Re-Scaling	-Yes
I/O Connectors	-AC power in -VGA in D-Sub 15 pin *2 -DVI-D Connector *1

Power Saving	-VESADPMS Standard		
Power Consumption	-33Watt (typ.)		
Ergonomics	Tilt Up	25 degrees minimum	
	Tilt Down	5 degrees	
	Swivel Right	45 degrees	
	Swivel Left	45 degrees	
	Height Adjust	0~110 cm	
	Pivot	0~90 degrees (Clockwise)	
Environmental	-Operating Temperature: 0° ~ 40°C/32° ~ 104°F		
	-Operating Related Humidity: 20% ~ 90% RH Non-condensing		
	-Storage Temperature: -20° ~ 60°C/ -4° ~ 140°F		
	-Storage Related Humidity: 5% ~ 90% RH Non-condensing		
Mounting Interface	-VESA Flat Panel Monitor Physical Mounting Interface		
Power Supply	-Internal Power Supply		
	-Power Dissipation : 33 Watts (typ.)		
Dimension (W*H*D)	-392.0mm*350.0mm*238.0mm		
Weight	-6.5 kgs/14.3 lbs		
Agency Approval	-FCC-B, CE-B, VCCI-II, BSMI, UL, CUL, TUV, TCO‘99		
	-PCBC, CCC, GOST, PSB, NOM		

1-4 Compatible Modes

Analog :

640 x 350 @ 70Hz, 31.5kHz
640 x 480 @ 60Hz, 31.5kHz
640 x 480 @ 67Hz, 35.0kHz
640 x 480 @ 75Hz, 37.5kHz
640 x 480 @ 72Hz, 37.9kHz
640 x 480 @ 85Hz, 43.27kHz
720 x 400 @ 70Hz, 31.5kHz
800 x 600 @ 56Hz, 35.1kHz
800 x 600 @ 60Hz, 37.9kHz
800 x 600 @ 75Hz, 46.9kHz
800 x 600 @ 72Hz, 48.1kHz
800 x 600 @ 85Hz, 53.7kHz
832 x 624 @ 75Hz, 49.7kHz
1024 x 768 @ 60Hz, 48.4kHz
1024 x 768 @ 70Hz, 56.5kHz
1024 x 768 @ 72Hz, 58.1kHz
1024 x 768 @ 75Hz, 60.0kHz
1024 x 768 @ 85Hz, 68.67kHz
1152 x 870 @ 75Hz, 68.6kHz,
1280 x 1024 @ 60Hz, 63.4kHz
1280 x 1024 @ 75Hz, 79.97kHz
1280 x 720 @ 60Hz, 45kHz

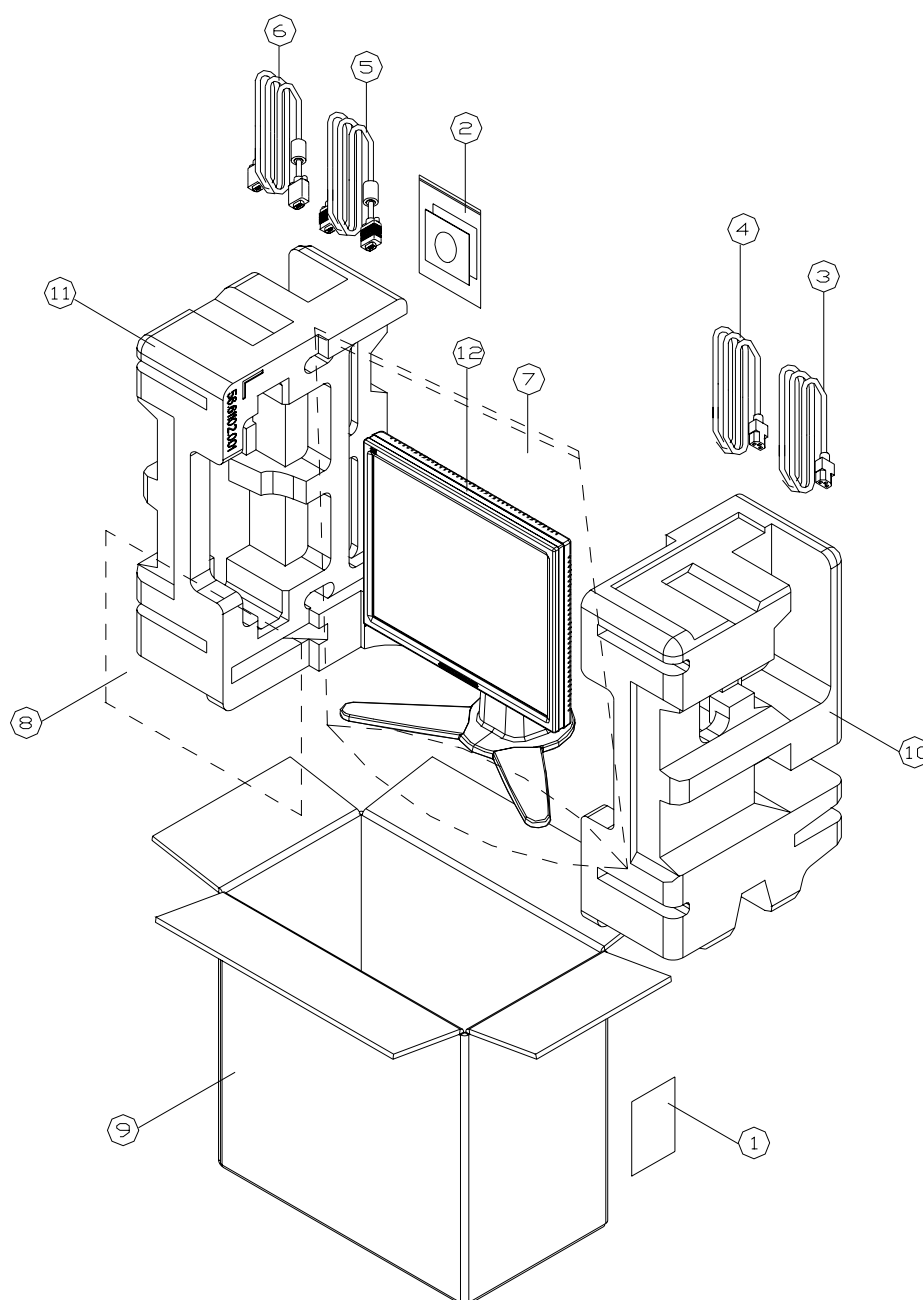
Digital :

640 x 350 @ 70Hz, 31.5kHz
640 x 400 @ 70Hz, 31.5kHz
640 x 480 @ 60Hz, 31.5kHz
640 x 480 @ 75Hz, 37.5kHz
640 x 480 @ 72Hz, 37.9kHz
640 x 480 @ 85Hz, 43.27kHz
720 x 400 @ 70Hz, 31.5kHz
800 x 600 @ 56Hz, 35.1kHz
800 x 600 @ 60Hz, 37.9kHz
800 x 600 @ 75Hz, 46.9kHz
800 x 600 @ 72Hz, 48.1kHz
800 x 600 @ 85Hz, 53.7kHz
1024 x 768 @ 60Hz, 48.4kHz
1024 x 768 @ 70Hz, 56.5kHz
1024 x 768 @ 72Hz, 58.1kHz
1024 x 768 @ 75Hz, 60.0kHz
1024 x 768 @ 85Hz, 68.67kHz
1152 x 870 @ 75Hz, 68.6kHz,
1280 x 1024 @ 60Hz, 63.4kHz
1280 x 1024 @ 75Hz, 79.97kHz
1280 x 720 @ 60Hz, 45kHz

2. Mechanical Construction

This section provides the package and exploded overview, replaceable parts list. You can place an order for correct parts in the recommended parts list.

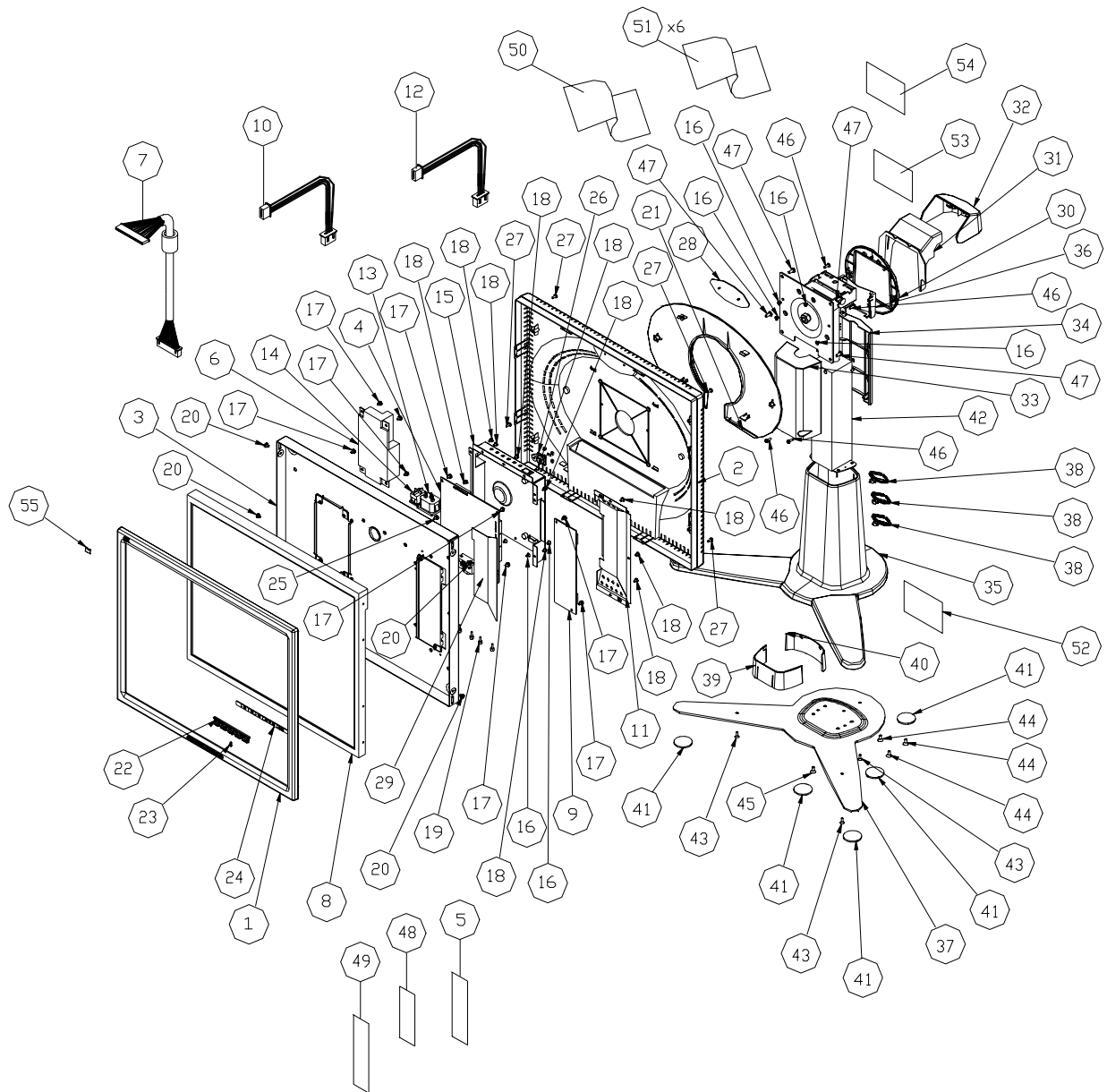
2-1 Package Overview



2-1.1 Replacement Parts List

Item	P/N	Description
1	35.58203.001	LABEL CARTON 76*76mm
2-1	36.61101.001	USER GUIDE+CD VP171
2-2	36.61102.001	USER GUIDE+CD VP171b
2-3	36.61101.002	USER GUIDE+CD VP171s
3	42.57207.002	CABLE POWER CORD SP-30+IS-14 180050mm;COLOR:CS-VS09;NA (VP191)
4-1	42.50112.002	CABLE POWER CORD SP-23+IS-14 180050mm;COLOR:CS-VS09,EUR (VP191)
4-2	42.50115.001	CABLE POWER CORD 1830mm SP30+IS14 (VP171b/171s)
5-1	42.59901.008	CABLE VGA 15P 1800mm 2-CORE COLOR:CS-VS09 (VP171)
5-2	42.59901.003	CABLE VGA 15P 1800mm 2*25mm CORE (VP171b/171s)
6-1	42.59902.013	CABLE DVI-D 1800mm COLOR:CS-VS09 (VP171)
6-2	42.59902.012	CABLE DVI-D 1.8M 2-CORE MOLEX (VP171b/171s)
7	51.00081.004	PE BAG LDPE 540*750*0.07t W/HOLE
8	51.58314.001	LCD PROTECT FILM 355*290*0.1t mm MYLAR VG700/VG750
9-1	55.61101.001	CARTON AB-18 465*265*430(h) VP171
9-2	55.61101.002	CARTON AB-18 465*265*430(h) VP171b
9-3	55.61101.003	CORTON AB-18 465*265*430 VP171s
10	56.61101.001	CUSHION R EPS VP171
11	56.61102.001	CUSHION L EPS VP171
12	DC.61101.001	D.C. VP171,AUO EN05

2-2 Exploded Overview



2-2.1 Replacement Parts List

Item	P/N	Description
1	51.61101.001	FRONT COVER PC+ABS-VS09 VP171
1-1	76.61101.001	ASSY FRONT COVER+CTRL BD CS-VS09 VP171
1-2	76.61101.002	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b
1-3	76.61101.003	ASSY FRONT COVER 2-TONE VP171s
2-1	51.61102.001	REAR COVER PC+ABS-VS09 VP171
2-2	51.61102.002	REAR COVER PC+ABS-VS08A VP171b
2-3	51.61102.003	REAR COVER PC+ABS-VS06A VP171s
3	61.61101.001	LCD BRKT SECC 1.0t VP171
4	80.61101.001	PCBA MAIN BD FOR VP171
5-1	35.61204.001	COSMETIC STRIP ADHESIVE 180*10*0.3(t)mm PC-VS09 VP191
5-2	35.61204.002	COSMETIC STRIP ADHESIVE 180*10*0.3(t)mm PC-VS08 VP191b
5-3	35.61204.003	COSMETIC STRIP ADHESIVE 180*10*0.3(t)mm PC-VS06 VP191s
6	44.61103.003	OPEN FRAME IN:100-240V OUT:12V/4.16A"LSE"(NOISE REDUCTION)
7	42.61804.001	W.A. 30P UL1571 #28 115mm TFT1925/L1925(MB-PANEL)
8	48.58301.001	TFT LCD 17.0" 1280*1024 AU M17EN05 V1
9	44.61101.001	PCBA INVERTER PLCD2417414G;EMAX FOR 17" AUO
10	42.61203.001	W.A. 4P UL1007 #24 250mm VP191(POWER)
11	61.61102.001	SHIELDING PLATE-INV Tineplate 0.3t VP171
12	42.61202.001	W.A. 10/6P UL1007 #24 50mm VP191(INV)
13	42.61204.001	W.A. 4P UL1007 #18 VP191(SWT)
14	42.61205.001	W.A. 3P UL1007 #18 50mm VP191(INLET)
15	61.61202.001	SHIELDING BRKT-MB SECC 1.0t VP191
16	85.4A323.040	SCREW FLATE MECH M3*4 BLACK
17	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni
18	85.AA123.030	SCREW PAN TAPPING M3*3 Ni
19	85.005AG.075	SCREW HEX I/O #4-40*H5*L7.5 Ni NYLOK
20	85.ZA123.040	SCREW WCHW MECH M3*4 Ni
21-1	51.61203.001	OVAL CAP PC+ABS-VS09 VP191
21-2	51.61203.002	OVAL CAP PC+ABS-VS08A VP191b
21-3	51.61203.003	OVAL CAP PC+ABS-VS06A VP191s
22-1	51.61210.001	SELECT BUTTON PC+ABS-VS09 VP191
22-2	51.61210.002	SELECT BUTTON PC+ABS-VS08 VP191b
22-3	51.61210.003	SELECT BUTTON PC+ABS-VS07A VP191s
23	51.61211.001	LED LENS PMMA VP191
24	80.61102.001	PCBA CTRL BD FOR VP171
25	85.1C124.060	SCREW PAN MECH W/T M4*6 Ni

Item	P/N	Description
26	61.00042.001	LOCK BRKT+CAP SECC 0.8t
27	85.1F123.080	SCREW PAN MECH W/SF M3*8 Ni
28-1	51.58711.003	NAMEPLATE ELLIPSE CS-VS09 ViewSonic (VP171)
28-2	51.58711.002	NAMEPLATE ELLIPSE CS-VS08 ViewSonic (VP171b)
28-3	51.58711.001	NAMEPLATE ELLIPSE ViewSonic (VP171s)
29	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171
30-1	75.61202.001	ASSY HINGE CAP PC+ABS-VS09 VP191
30-2	75.61202.002	ASSY HINGE CAP PC+ABS-VS08 VP191b
30-3	75.61202.003	ASSY HINGE CAP CS-VS06 VP191s
31	51.61205.001	HINGE CAP-2 PC+ABS-VS09 VP191
32-1	51.61206.001	HINGE CAP-3 PC+ABS-VS09 VP191
32-2	51.61206.002	HINGE CAP-3 PC+ABS-VS08 VP191b
32-3	51.61206.003	HINGE CAP-3 PC+ABS-VS06 VP191s
33-1	51.61207.001	FRONT ARM PC+ABS-VS09 VP191
33-2	51.61207.002	FRONT ARM PC+ABS-VS08 VP191b
33-3	51.61207.003	FRONT ARM PC+ABS-VS06 VP191s
34-1	51.61208.001	REAR ARM PC+ABS-VS09 VP191
34-2	51.61208.002	REAR ARM PC+ABS-VS08 VP191b
34-3	51.61208.003	REAR ARM PC+ABS-VS06 VP191s
35-1	51.61209.001	BASE COVER PC+ABS-VS09 VP191
35-2	51.61209.002	BASE COVER PC+ABS-VS08 VP191b
35-3	51.61209.003	BASE COVER PC+ABS-VS06 VP191s
36-1	51.61212.001	HINGE CAP-4 PC+ABS-VS09
36-2	51.61212.002	HINGE CAP-4 PC+ABS-VS08 VP191b
36-3	51.61212.003	HINGE CAP-4 PC+ABS-VS06 VP191s
37	61.61204.001	BASE PLATE SPHC 3.0t Zn
38-1	51.61213.001	CLIP NYLON-VS09 VP191
38-2	51.61213.002	CLIP NYLON-VS08 VP191b
38-3	51.61213.003	CLIP NYLON-VS06 VP191s
39	51.61214.001	WEAR PLATE (FRONT) VP191
40	51.61215.001	WEAR PLATE (REAR) VP191
41	52.61201.001	RUBBER PAD 27d*2t VP191
42	61.61103.001	HINGE VP171
43	85.YA323.080	SCREW FLAT TAP M3*8 BLACK

Item	P/N	Description
44	85.4A524.080	SCREW FLAT MECH W/O M4*8 NYLOK
45	85.4A123.080	SCREW FLAT MECH M3*8 Ni
46	85.UA123.080	DOUBLE THREADS SCREW PAN TAP M3*8 Ni
47	85.5A124.080	SCREW BINDING MECH M4*8 Ni
48	51.00014.002	FILAMENT TAPE 3M NO.8915 25mm*55M
49	51.59901.001	ACETATE TAPE W=20mm
50	41.53615.001	EMI Tape (80560) 30*50mm
51	41.54612.001	EMI Tape (80560) 25*30mm
52	35.58304.001	LABEL BARCODE 40*14 ViewSonic
53-1	35.61101.001	LABEL SPEC 120*50mm VP171
53-2	35.61101.002	LABEL SPEC 120*50mm VP171b
53-3	35.61101.003	LABEL SPEC 120*50mm VP171s
54	35.61203.001	LABEL BAR CODE 50*25mm VP191
55	35.61202.001	BIRD LOGO AL E015-004 "ViewSonic"

2-3 Mechanical Parts List

VP171s Mechanical Parts List

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	M-MS-0808-8116	51.58711.001	NAMEPLATE ELLIPSE CS-VS06 ViewSonic	1
2	M-CV-0830-2452	51.61203.003	OVAL CAP PC+ABS-VS06 VP191s	1
3	M-CV-0830-2455	51.61212.003	HINGE CAP-4 PC+ABS-VS06 VP191s	1
4	M-MS-0808-8239	51.00014.001	FILAMENT TAPE 3M NO.897 25mm*45M	1
5	M-MS-0808-8750	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171	1
6		61.61101.001	LCD BRKT SECC 1.0t VP171	1
7		61.61102.001	SHIELDING PLATE-INV Tineplate 0.3t VP171	1
8		61.61202.001	SHIELDING BRKT-MB SECC 1.0t VP191	1
9	C-BC-0302-0511	75.61101.003	ASSY REAR COVER CS-VS06 VP171s	1
10	C-FP-0301-0356	76.61101.003	ASSY FRONT COVER+CTRL BD CS-VS06 VP171s	1
11	M-CV-0830-2453	51.61206.003	HINGE CAP-3 PC+ABS-VS06 VP191s	1
12	M-MS-0808-8751	51.61207.003	FRONT ARM PC+ABS-VS06 VP191s	1
13	M-MS-0808-8752	51.61208.003	REAR ARM PC+ABS-VS06 VP191s	1
14	M-MS-0808-8753	51.61213.003	CLIP NYLON-VS08 VP191s	3
15	PL-PD-0714-0091	52.61201.001	RUBBER PAD 27d*2t VP191	5
16		61.61204.001	BASE PLATE SPHC 3.0t Zn	1
17	M-MS-0808-8756	61.61103.001	HINGE VP171	1
18	M-CV-0830-2457	75.61202.003	ASSY HINGE CAP PC+ABS-VS06 VP191s	1
19	M-CV-0830-2456	75.61204.003	ASSY BASE COVER CS-VS06 VP191s	1

VP171 Mechanical Parts List

Item	ViewSonic P/N	Ref. P/N	Description	QTY
1	M-MS-0808-7801	51.58711.003	NAMEPLATE ELLIPSE CS-VS09 ViewSonic	1
2	M-CV-0830-2419	51.61203.001	OVAL CAP PC+ABS-VS09 VP191	1
3	M-CV-0830-2424	51.61212.001	HINGE CAP-4 PC+ABS-VS09	1
4	M-MS-0808-8750	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171	1
5		61.61101.001	LCD BRKT SECC 1.0t VP171	1
6		61.61102.001	SHIELDING PLATE-INV Tineplate 0.3t VP171	1
7		61.61202.001	SHIELDING BRKT-MB SECC 1.0t VP191	1
8	C-BC-0302-0391	75.61101.001	ASSY REAR COVER CS-VS09 VP171	1
9	C-FP-0301-0331	76.61101.001	ASSY FRONT COVER+CTRL BD CS-VS09 VP171	1
10	M-CV-0830-2423	51.61206.001	HINGE CAP-3 PC+ABS-VS09 VP191	1
11	M-MS-0808-7793	51.61207.001	FRONT ARM PC+ABS-VS09 VP191	1
12	M-MS-0808-7794	51.61208.001	REAR ARM PC+ABS-VS09 VP191	1
13	PL-CL-0710-0032	51.61213.001	CLIP NYLON-VS09 VP191	3
14	PL-PD-0714-0091	52.61201.001	RUBBER PAD 27d*2t VP191	4
15	M-MS-0808-8772	61.61204.001	BASE PLATE SPHC 3.0t Zn	1
16	M-MS-0808-8756	61.61103.001	HINGE VP171	1
17	M-CV-0830-2420	75.61202.001	ASSY HINGE CAP PC+ABS-VS09 VP191	1
18	C-BS-0303-0378	75.61204.001	ASSY BASE COVER CS-VS09 VP191	1
19	A-CD-VP171	36.61101.001	VP171 USER GUIDE+CD	1
20	P-BX-0601-0800	55.61101.001	CARTON AB-18 465*265*430(h) VP171	1
21	P-FM-0602-0583	56.61101.001	CUSHION R EPS VP171	1
22	P-FM-0602-0584	56.61102.001	CUSHION L EPS VP171	1

VP171b Mechanical Parts List

Item	ViewSonic P/N	Ref. P/N	Description	QTY
1	M-MS-0808-8299	51.58711.002	NAMEPLATE ELLIPSE CS-VS08 ViewSonic	1
2	M-CV-0830-2426	51.61203.002	OVAL CAP PC+ABS-VS08 VP191b	1
3	M-CV-0830-2431	51.61212.002	HINGE CAP-4 PC+ABS-VS08 VP191b	1
4	M-MS-0808-8750	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171	1
5		61.61101.001	LCD BRKT SECC 1.0t VP171	1
6		61.61202.001	SHIELDING BRKT-MB SECC 1.0t VP191	1
7		61.61102.001	SHIELDING PLATE-INV Tineplate 0.3t VP171	1
8	C-BC-0302-0392	75.61101.002	ASSY REAR COVER CS-VS08 VP171b	1
9	C-FP-0301-0333	76.61101.002	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b	1
10	M-CV-0830-2429	51.61206.002	HINGE CAP-3 PC+ABS-VS08 VP191b	1
11	M-MS-0808-7823	51.61207.002	FRONT ARM PC+ABS-VS08 VP191b	1
12	M-MS-0808-7824	51.61208.002	REAR ARM PC+ABS-VS08 VP191b	1
13	PL-CL-0710-0033	51.61213.002	CLIP NYLON-VS08 VP191b	3
14	PL-PD-0714-0091	52.61201.001	RUBBER PAD 27d*2t VP191	4
15	M-MS-0808-8772	61.61204.001	BASE PLATE SPHC 3.0t Zn	1
16	M-MS-0808-8756	61.61103.001	HINGE VP171	1
17	M-CV-0830-2432	75.61202.002	ASSY HINGE CAP PC+ABS-VS08 VP191b	1
18		75.61204.002	ASSY BASE COVER CS-VS08 VP191b	1
19	P-BX-0601-0802	55.61101.002	CARTON AB-18 465*265*430(h) VP171b	1
20	P-FM-0602-0583	56.61101.001	CUSHION R EPS VP171	1
21	P-FM-0602-0584	56.61102.001	CUSHION L EPS VP171	1
22	A-CD-VP171B	36.61102.001	USER GUIDE,VP171b	1

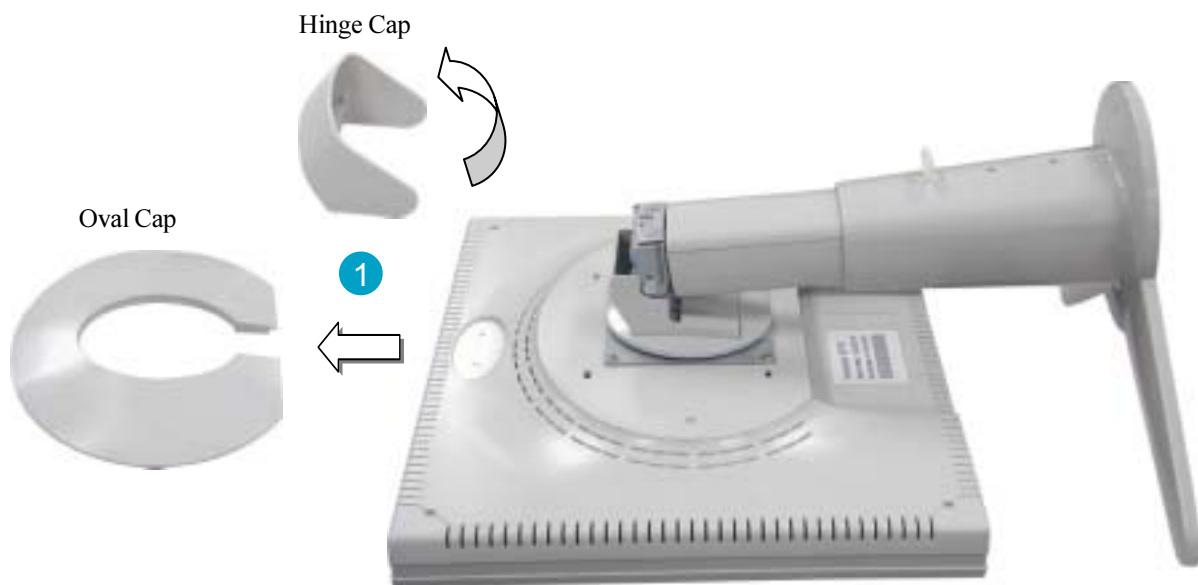
LEVEL	CATEGORY	PART NAME	DESCRIPTION	CORETRONIC P/N	VS P/N	PN CHANGE TO	ECN/SCN No.	EFFECTIVE DATE	MIN. ORDER QTY	RTN/ SCRAP	PRICE (USD)	LeadTi me	REMARK	VP171 95.61101.00A	VP171b 95.61102.00A	VP171S 95.61105.00A
1	CABLES	WIRE	W.A. 30P UL1571 #28 115mm TFT1925/L1925(MB-PANEL)	42.61804.001						S	1.60	30		*	*	*
		VGA CABLE	CABLE VGA 15P 1800mm 2*25mm CORE	42.59901.003	A-VC-0101-0261					S	4.70	30			*	*
		VGA CABLE	CABLE VGA 15P 1800mm 2-CORE COLOR:CS-VS09	42.59901.008	A-VC-0101-0306					S	4.70	30		*		
		DVI-D CABLE	CABLE DVI-D 1.8M 2-CORE MOLEX	42.59902.012	A-VC-0101-0262					S	6.10	30			*	*
		DVI-D CABLE	CABLE DVI-D 1800mm COLOR:CS-VS09	42.59902.013	A-VC-0101-0315					S	6.10	30		*		
		INVERTER WIRE	W.A. 10/6P UL1007 #24 50mm VP191(INV)	42.61202.001						S	0.71	30		*	*	*
		POWER WIRE	W.A. 4P UL1007 #24 250mm VP191(POWER)	42.61203.001						S	0.73	30		*	*	*
		SITECH WIRE	W.A. 4P UL1007 #18 VP191(SWT)	42.61204.001						S	1.08	30		*	*	*
		INLET WIRE	W.A. 3P UL1007 #18 50mm VP191(INLET)	42.61205.001						S	1.50	30		*	*	*
		POWER CORD*	CABLE POWER CORD 1830mm SP30+IS14, EUR	42.50112.001						S	1.40	30				*
		POWER CORD*	CABLE POWER CORD 1830mm (JAP) BLACK	42.50116.002						S	2.55	30				
		POWER CORD*	CABLE POWER CORD 1.8M+0.1M (CHINA)	42.50126.001						S	1.80	30				
		POWER CORD*	CABLE POWER CORD 1830mm PC TYPE, BLACK	42.58204.001						S	1.89	30				
		POWER CORD*	CABLE POWER CORD 1830mm SP30+IS14	42.50115.001						S	1.34	30			*	*
		POWER CORD*	CABLE POWER CORD 1830mm SP-023+IS14, COLOR:CS-VS09, EUR	42.50112.002						S	1.40	30		*		
		POWER CORD*	CABLE POWER CORD 1830mm COLOR CS-VS09, JAP	42.50116.005						S	2.55	30				
		POWER CORD*	CABLE POWER CORD 1.8M+0.1M COLOR CS-VS09 (CHINA)	42.50126.002						S	1.80	30				
		POWER CORD*	CABLE POWER CORD 1830mm PC TYPE, COLOR CS-VS09	42.58204.002						S	1.89	30				
		POWER CORD*	CABLE POWER CORD SP-30+IS-14 1800±50mm; COLOR:CS-VS09; NA	42.57207.002	A-PC-0106-0240					S	1.05	30		*		
1	POWER	POWER BOARD	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"	44.61103.004						R	44.00	20		*	*	*
		POWER BOARD	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"	44.61103.003						R	14.00	30		*	*	*
1	LCD	LCD PANEL	TFT LCD 17.0" 1280*1024 AU M17EN05 V1	48.58301.001						R	310.00	30		*	*	*
1	MISCELLANEOUS	MYLAR	MYLAR ADHESIVE t=0.3mm VP171	51.61103.001						S	0.10	30		*	*	*
		LOGO	BIRD LOGO AL E015-004 "ViewSonic"	35.61202.001						S	0.39	30		*	*	*
		EMI TAPE	EMI Tape (80560) 30*50mm	41.53615.001						S	0.20	30		*	*	*
		EMI TAPE	EMI Tape (80560) 25*30mm	41.54612.001						S	0.10	30		*	*	*
		CLIP	CLIP NYLON-VS09 VP191	51.61213.001						S	0.29	30		*		
		CLIP	CLIP NYLON-VS08 VP191b	51.61213.002						S	0.29	30			*	
		CLIP	CLIP NYLON-VS06 VP191S	51.61213.003						S	0.29	30				*
		WEAR PLATE	WEAR PLATE (FRONT) VP191	51.61214.001						S	0.57	30		*	*	*
		WEAR PLATE	WEAR PLATE (REAR) VP191	51.61215.001						S	0.57	30		*	*	*
		RUBBER PAD	RUBBER PAD 27d*2t VP191	52.61201.001						S	0.20	30		*	*	*
		SPEC LABEL	LABEL SPEC 120*50mm CS-VS09 VP171	35.61101.001						S	0.50	30		*	*	
		SPEC LABEL	LABEL SPEC 120*50mm VP171S	35.61101.003						S	0.50	30				*
		BARCODE LABEL	LABEL BAR CODE 50*25mm VP191	35.61203.001						S	0.20	30		*	*	*
		NAMEPLATE	NAMEPLATE ELLIPSE ViewSonic	51.58711.001						S	0.57	30				*
		NAMEPLATE	NAMEPLATE ELLIPSE CS-VS08 ViewSonic	51.58711.002						S	0.57	30			*	
		NAMEPLATE	NAMEPLATE ELLIPSE CS-VS09 ViewSonic	51.58711.003						S	0.57	30		*		
1	CASE/COVER/BRACKET ASSEMBLY	REAR COVER	REAR COVER PC+ABS-VS09 VP171	51.61102.001	C-BC-0302-495					S	7.00	30		*		
		REAR COVER	REAR COVER PC+ABS-VS08 VP171b	51.61102.002	C-BC-0302-497					S	7.00	30			*	
		REAR COVER	REAR COVER PC+ABS-VS06 VP171S	51.61102.003						S	7.00	30				*
		HINGE CAP	HINGE CAP-3 PC+ABS-VS09 VP191	51.61206.001						S	1.80	30		*		
		HINGE CAP	HINGE CAP-3 PC+ABS-VS08 VP191b	51.61206.002						S	1.80	30			*	
		HINGE CAP	HINGE CAP-3 PC+ABS-VS06 VP191S	51.61206.003						S	1.80	30				*
		FROM ARM	FRONT ARM PC+ABS-VS09 VP191	51.61207.001						S	2.65	30		*		
		FROM ARM	FRONT ARM PC+ABS-VS08 VP191b	51.61207.002						S	2.65	30			*	
		FROM ARM	FRONT ARM PC+ABS-VS06 VP191S	51.61207.003						S	2.65	30				*
		REAR ARM	REAR ARM PC+ABS-VS09 VP191	51.61208.001						S	2.44	30		*		
		REAR ARM	REAR ARM PC+ABS-VS08 VP191b	51.61208.002						S	2.44	30			*	
		REAR ARM	REAR ARM PC+ABS-VS06 VP191S	51.61208.003						S	2.44	30				*

		BASE COVER	BASE COVER PC+ABS-VS09 VP191	51.61209.001					S	7.50	30		*		
		BASE COVER	BASE COVER PC+ABS-VS08 VP191b	51.61209.002					S	7.50	30			*	
		BASE COVER	BASE COVER PC+ABS-VS06 VP191S	51.61209.003					S	7.50	30				*
		HINGE CAP	ASSY HINGE CAP PC+ABS-VS09 VP191	75.61202.001					S	3.00	30		*		
		HINGE CAP	ASSY HINGE CAP PC+ABS-VS08 VP191b	75.61202.002					S	3.00	30			*	
		HINGE CAP	ASSY HINGE CAP CS-VS06 VP191s	75.61202.003					S	3.00	30				*
		FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS09 VP171	76.61101.001	C-FP-0301-0331				S	8.80	30		*		
		FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b	76.61101.002	C-FP-0301-0333				S	8.80	30			*	
		FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS07A VP171S	75.61102.003					S	8.80	30				*
		OVAL CAP	OVAL CAP PC+ABS-VS09 VP191	51.61203.001					S	3.60	30		*		
		OVAL CAP	OVAL CAP PC+ABS-VS08 VP191b	51.61203.002					S	3.60	30			*	
		OVAL CAP	OVAL CAP PC+ABS-VS06A VP191S	51.61203.003					S	3.60	30				*
		HINGE CAP	HINGE CAP-4 PC+ABS-VS09	51.61212.001					S	1.10	30		*		*
		HINGE CAP	HINGE CAP-4 PC+ABS-VS09	51.61212.002					S	1.10	30		*		*
		HINGE CAP	HINGE CAP-4 PC+ABS-VS08 VP191b	51.61212.003					S	1.10	30			*	
1	BOARDS	MAIN BOARD	PCBA MAIN BD FOR VP171	80.61101.001					R	48.00	30		*	*	*
		CONTROL BOARD	PCBA CTRL BD FOR VP171	80.61102.001					R	8.00	30		*	*	*
		INVERTER BOARD	PCBA INVERTER PLCD2417414G;EMAX FOR 17" AUO	44.61101.001	B-SB-0221-0524				R	14.00	30		*	*	*
1	Manual	User Guide	User Guide+CD,VP171	36.61101.001	A-CD-VP171				S	1.80	30		*		
		User Guide	User Guide+CD,VP171b	36.61102.001	A-CD-VP171B				S	1.80	30			*	
		User Guide	User Guide+CD,VP171S	36.61101.002					S	1.80	30				*
1	PACKAGES	CARTON	CARTON AB-18 465*265*430(h) VP171	55.61101.001	P-BX-0601-0800				S	3.75	30		*		
		CARTON	CARTON AB-18 465*265*430(h) VP171b	55.61101.002	P-BX-0601-0802				S	3.75	30			*	
		CARTON	CARTON AB-18 465*265*430(h) VP171S	55.61101.003					S	3.75	30				*
		RIGHT CUSHION	CUSHION R EPS VP171	56.61101.001	P-FM-0602-0583				S	0.94	30		*	*	*
		LEFT CUSHION	CUSHION L EPS VP171	56.61102.001	P-FM-0602-0584				S	0.94	30		*	*	*

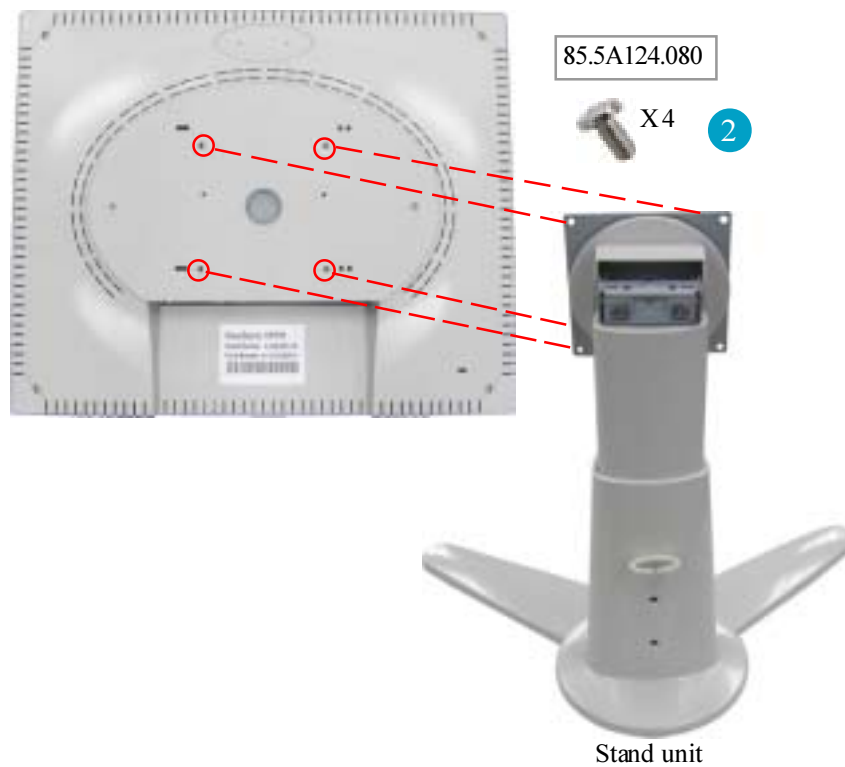
3. Procedure of Disassembly

This section provides disassembly procedures for VP171/**s/b** LCD Monitor. Before you begin any of these procedures, be sure to turn off the power, computer system, and other attached devices; then disconnect the power cable from the electronically outlet. Moreover, when you disassemble the monitor, be sure to put the screws in a safe place and separate them according to grouping.

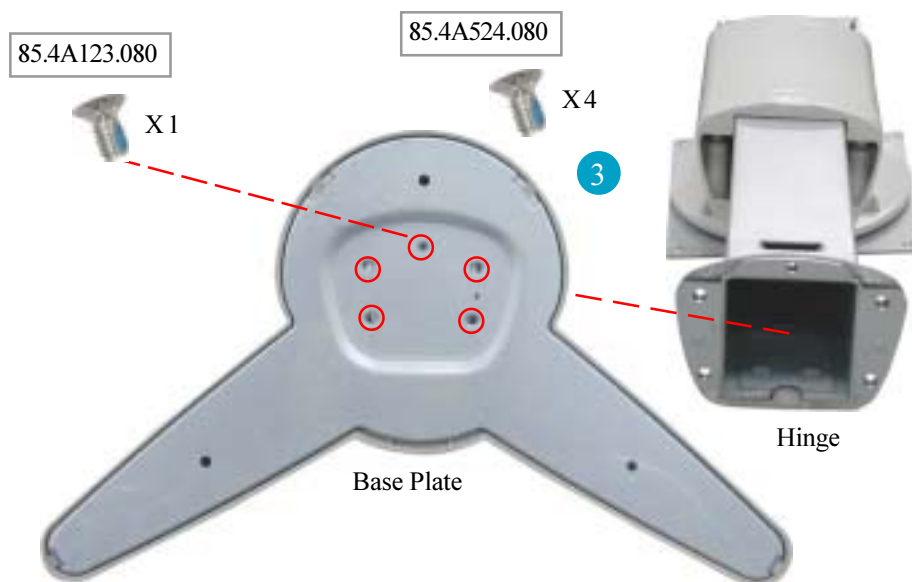
3-1 Disassembly of Stand unit from Monitor



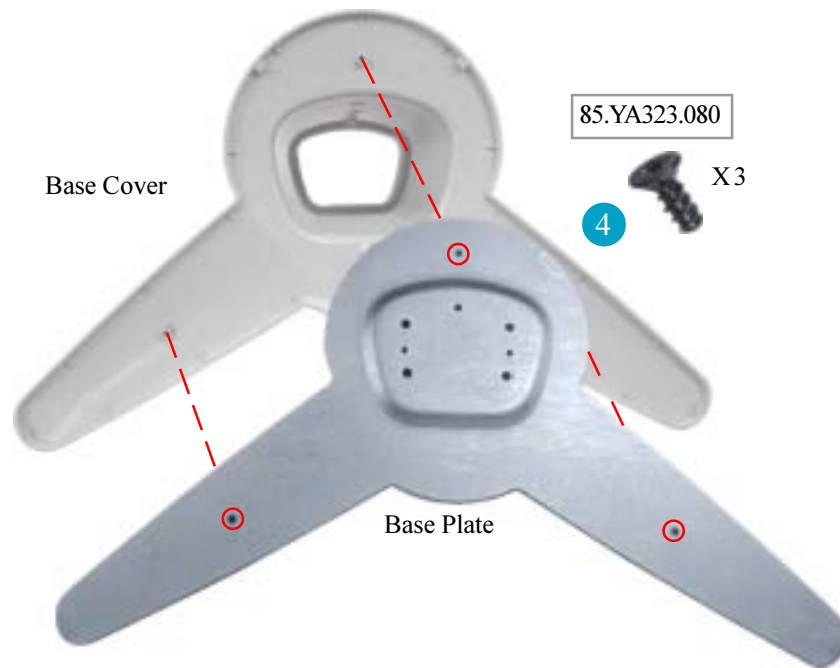
1. Put the monitor facedown. Take off Oval Cap and pry Hinge Cap off.



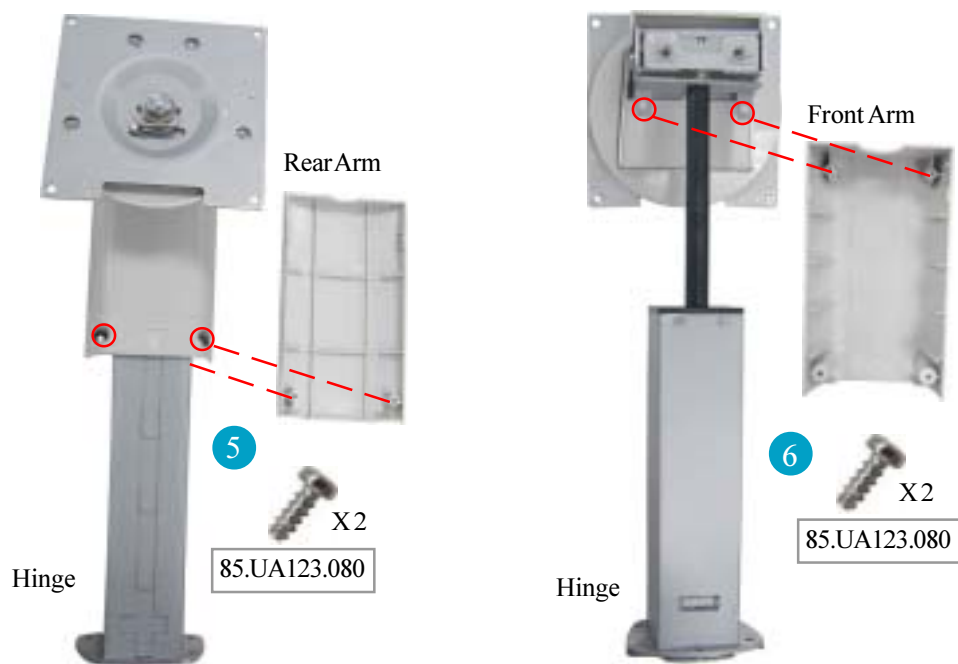
2. Unscrew five screws that secure Stand unit and detach Stand unit from the monitor.



3. Unscrew four screws of Base Plate to remove Hinge.



4. Unscrew three screws that secure Base Plate to separate Base Plate from Base Cover.



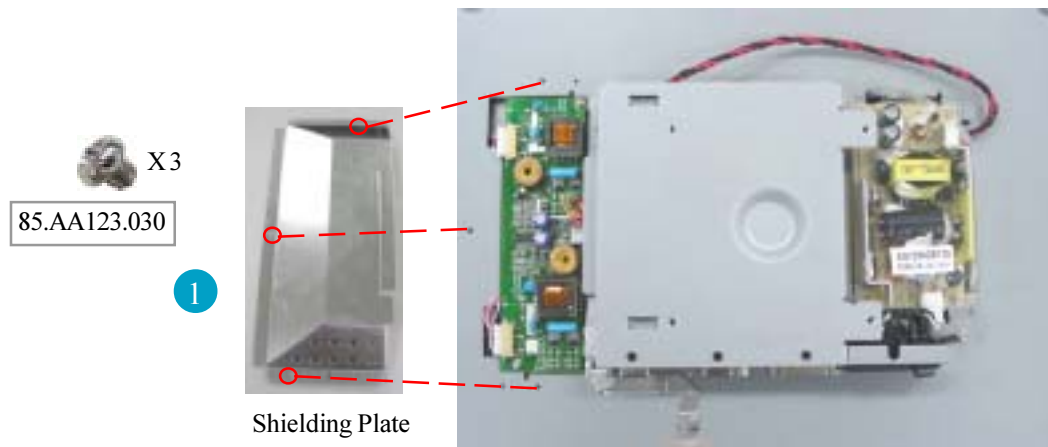
5. Unscrew two screws that secure Rear Arm to separate Rear Arm from Hinge.
6. Turn Hinge and unscrew two screws that secure Front Arm to detach Front Arm from Hinge.

3-2 Disassembly of Rear Cover

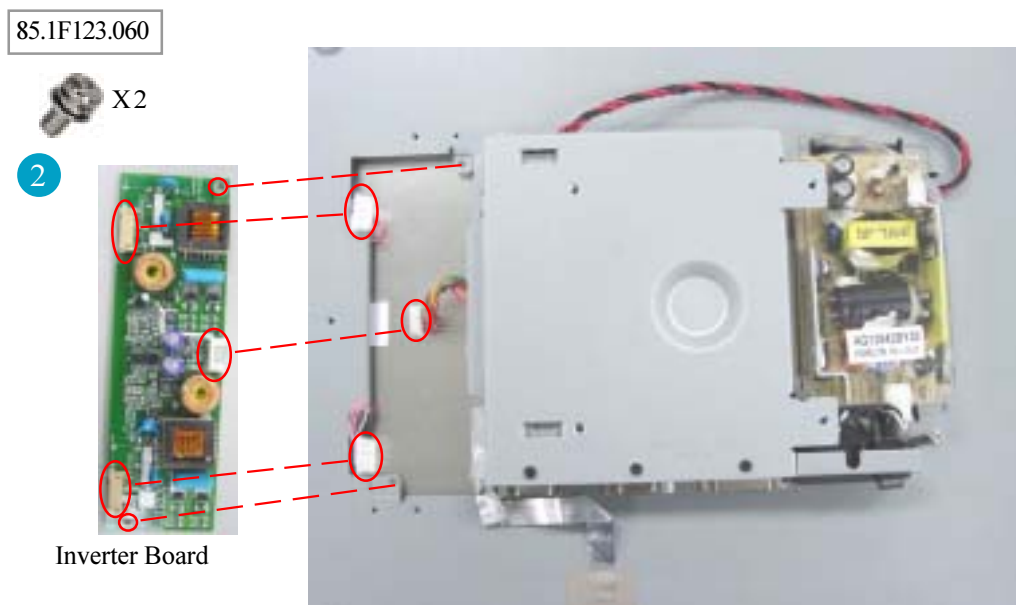


1. Unscrew four screws of Rear Cover, then detach LCD Panel module from Rear Cover.

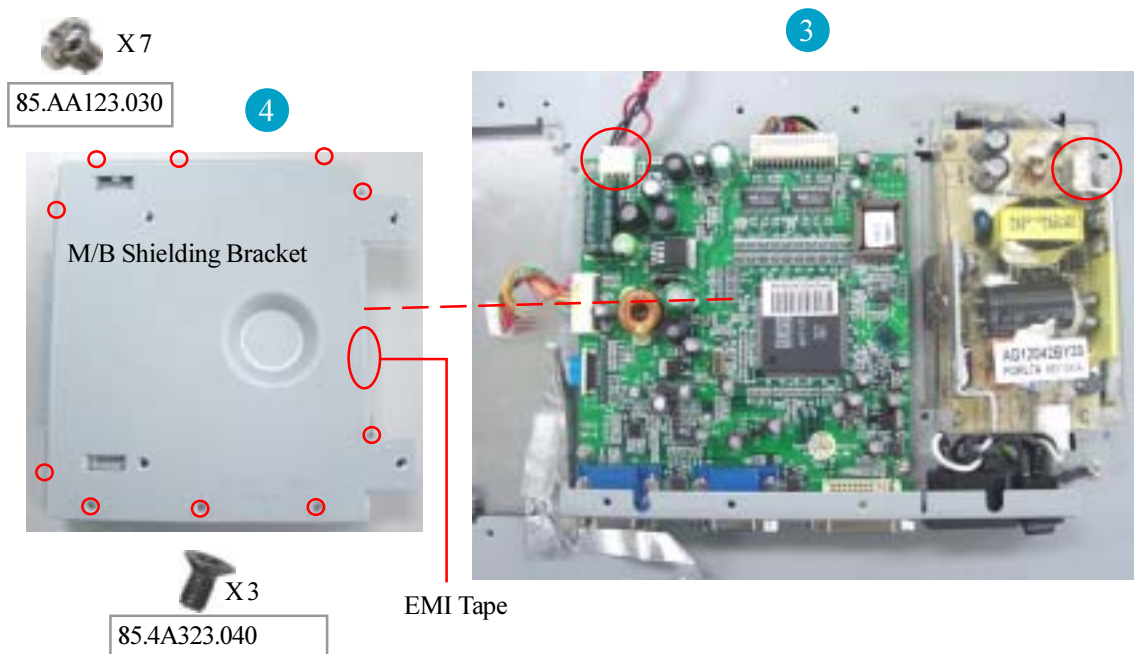
3-3 Disassembly of Inverter Board, Main Board and Power Board



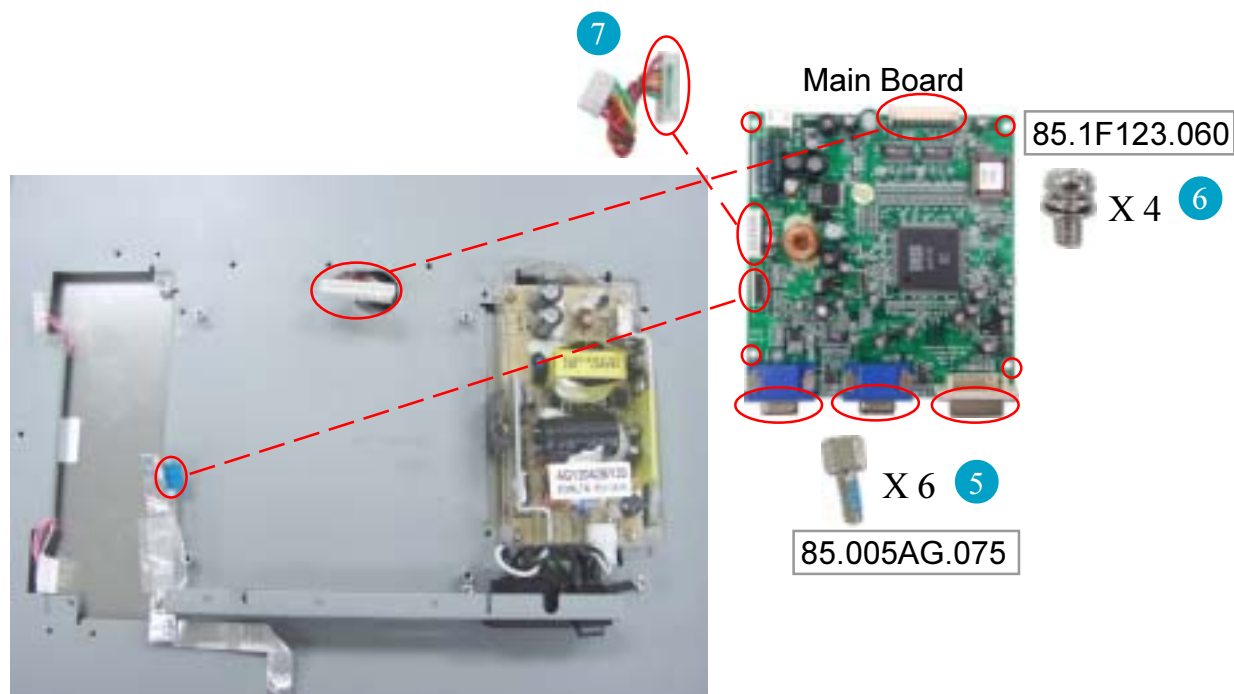
1. Unscrew three screws that secure Shielding Plate and remove Shielding Plate.



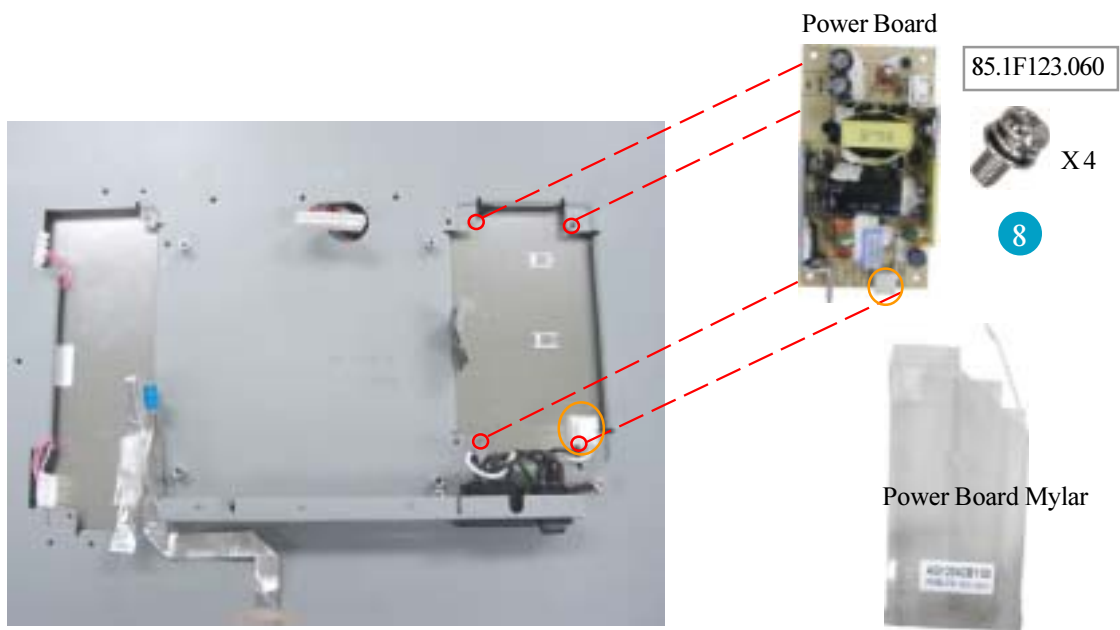
2. Unscrew two screws that secure Inverter Board and disconnect three connectors to remove Inverter Board.



3. Disconnect the wire between M/B and Power Board.
4. Unscrew 10 screws that secure M/B Shielding Bracket and **Remove** the EMI tape to remove M/B Shielding Bracket.

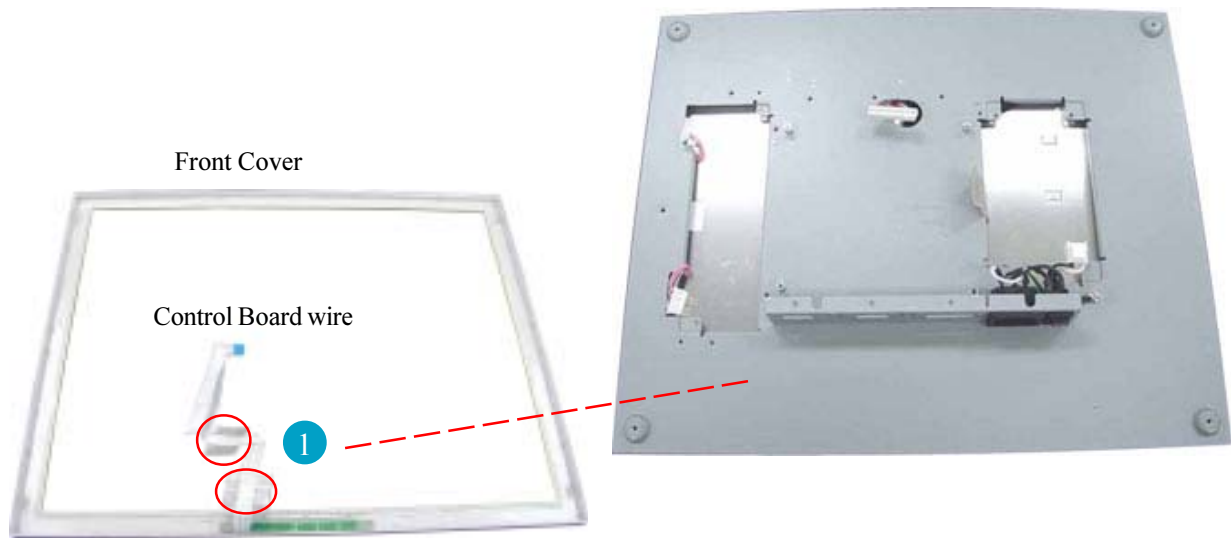


5. Unscrew six hex screws that secure Main Board.
6. Unscrew four screws that secure Main Board to remove Main Board.
7. Disconnect the wires which are connected to Main Board.

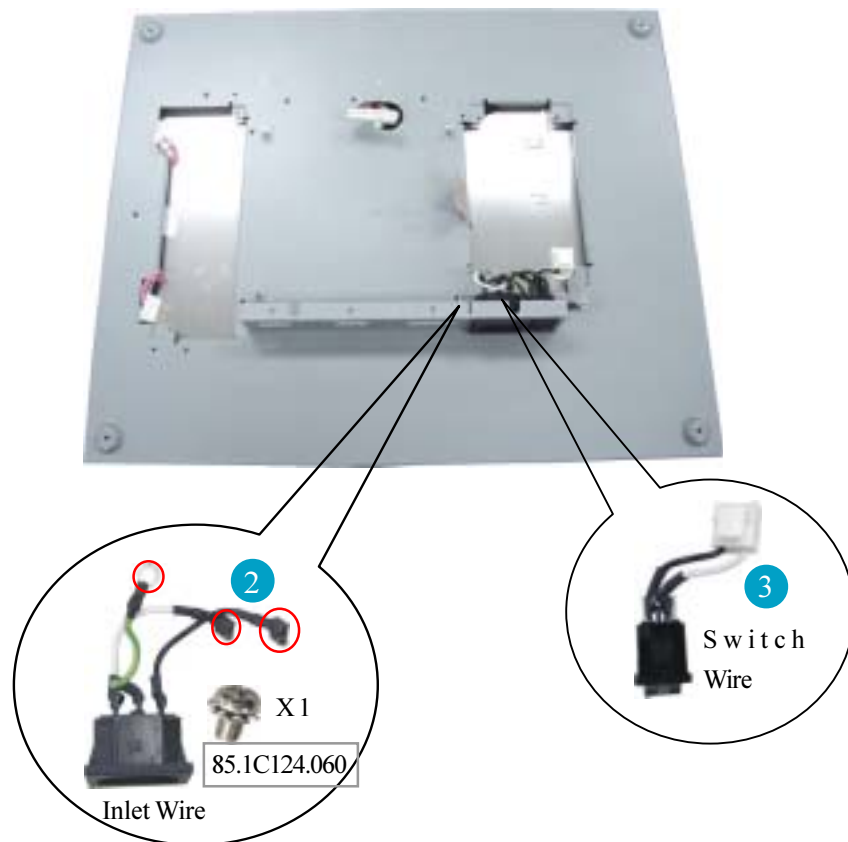


8. Unscrew four screws that secure Power Board and disconnect the wire to remove Power Board. Detach Power Board Mylar.

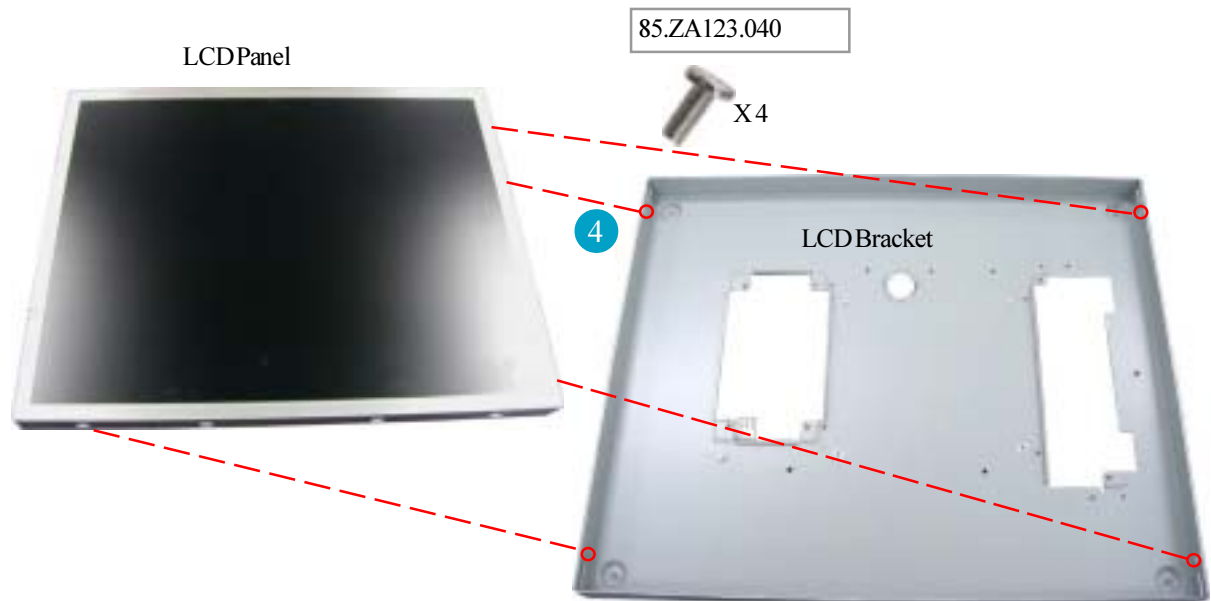
3-4 Disassembly of Front Cover Module, LCD Panel, Switch and Inlet Wires



1. **Remove** two tapes of Control Board wire and detach Front Cover from LCD Bracket.



2. Unscrew one screw that secures Inlet Wire and disconnect two wires that are connected to Switch Wire.
3. Use the tool to pull and press out Inlet and Switch Wires.



4. Unscrew four screws beside LCD Bracket to detach LCD Panel from LCD Bracket.



5. Turn LCD Panel around and remove the tape on the wire to disconnect the wire.

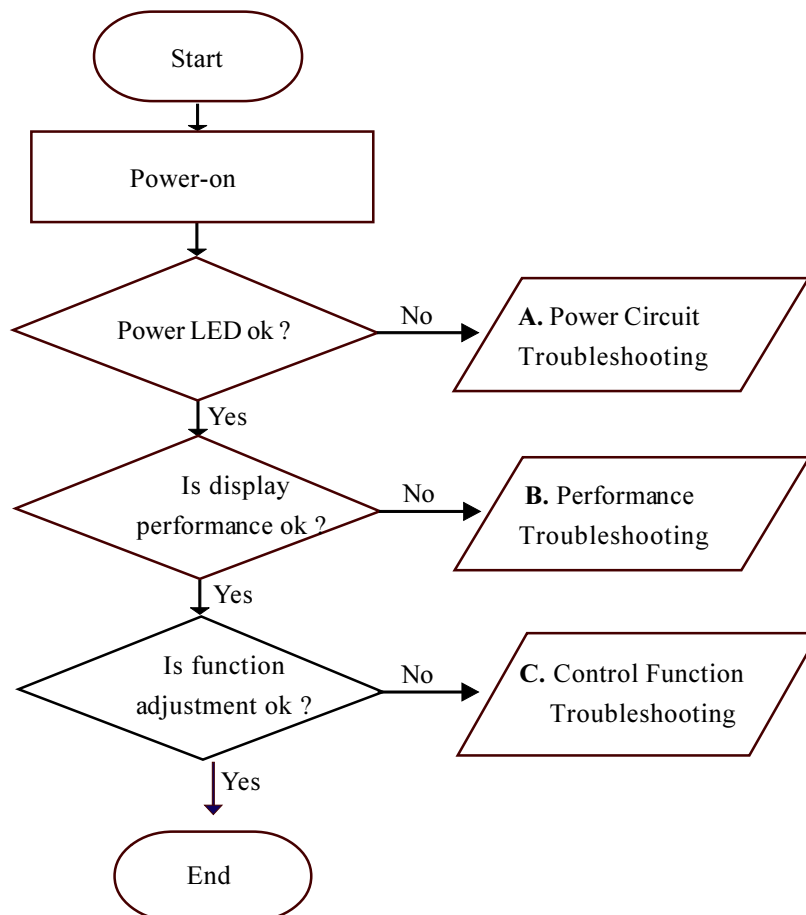
4. Troubleshooting Procedure

This chapter provides technicians and people who have an electronic background a primary description about maintaining the product. Moreover, you can get the appropriate operation to solve some complicated problems of component repairing and professional problems.

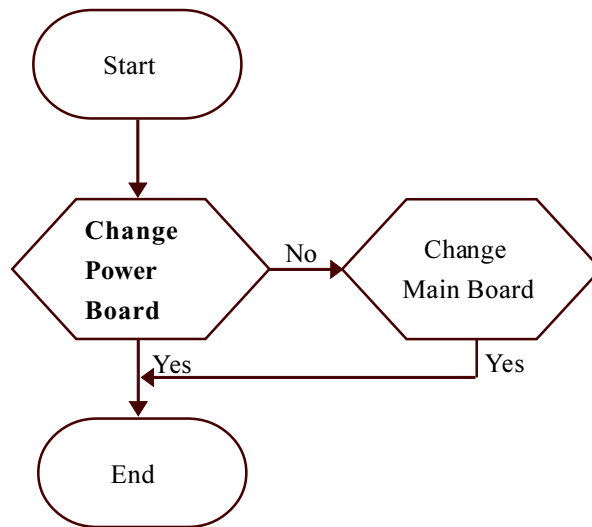
4-1 Equipment Needed

- VP171 Monitor
- Philips Screw Driver #101 and #107
- Electronic Hex Nut M5mm
- PC(Personal Computer) with SXGA resolution / Pattern Generator

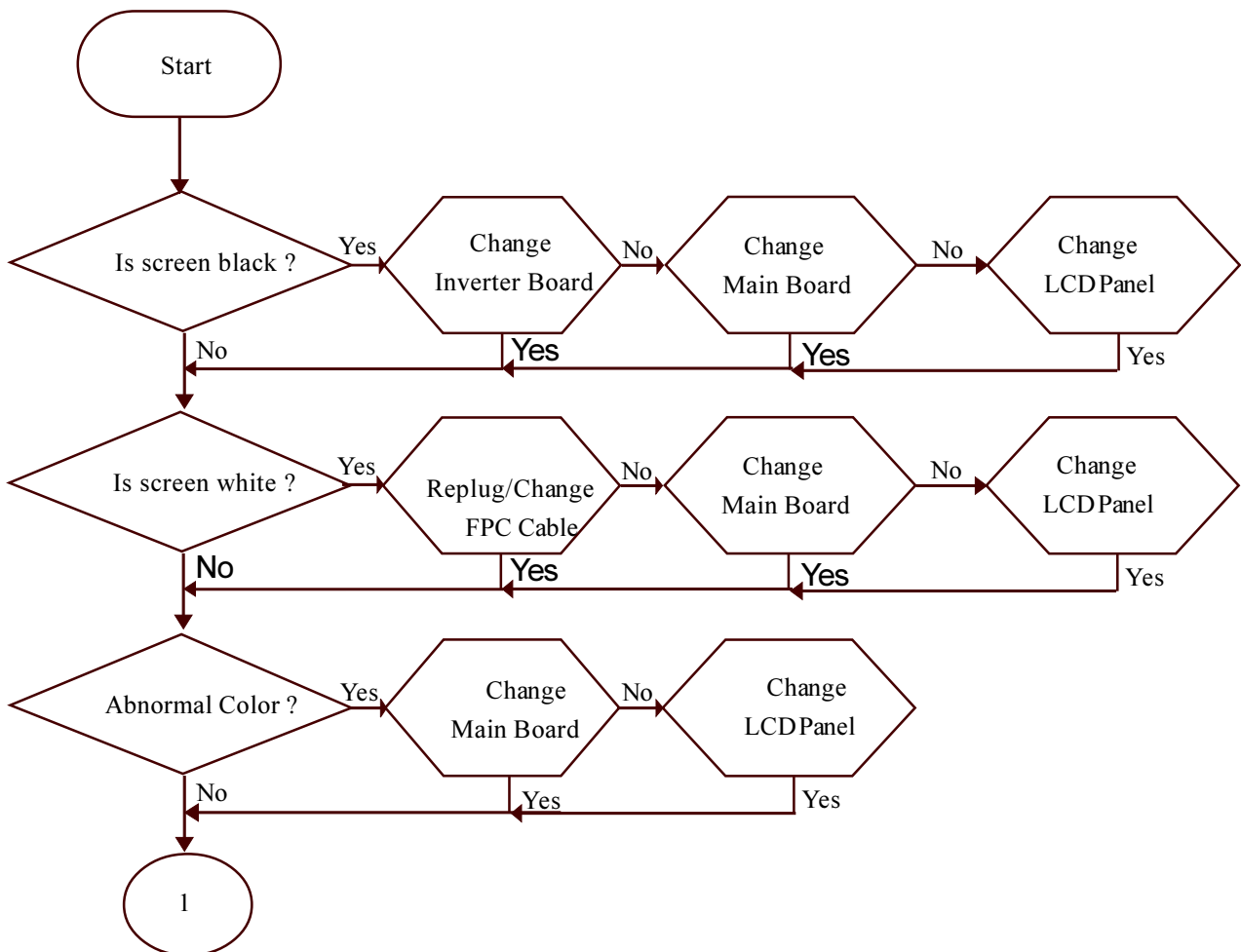
4-2 Main Procedure

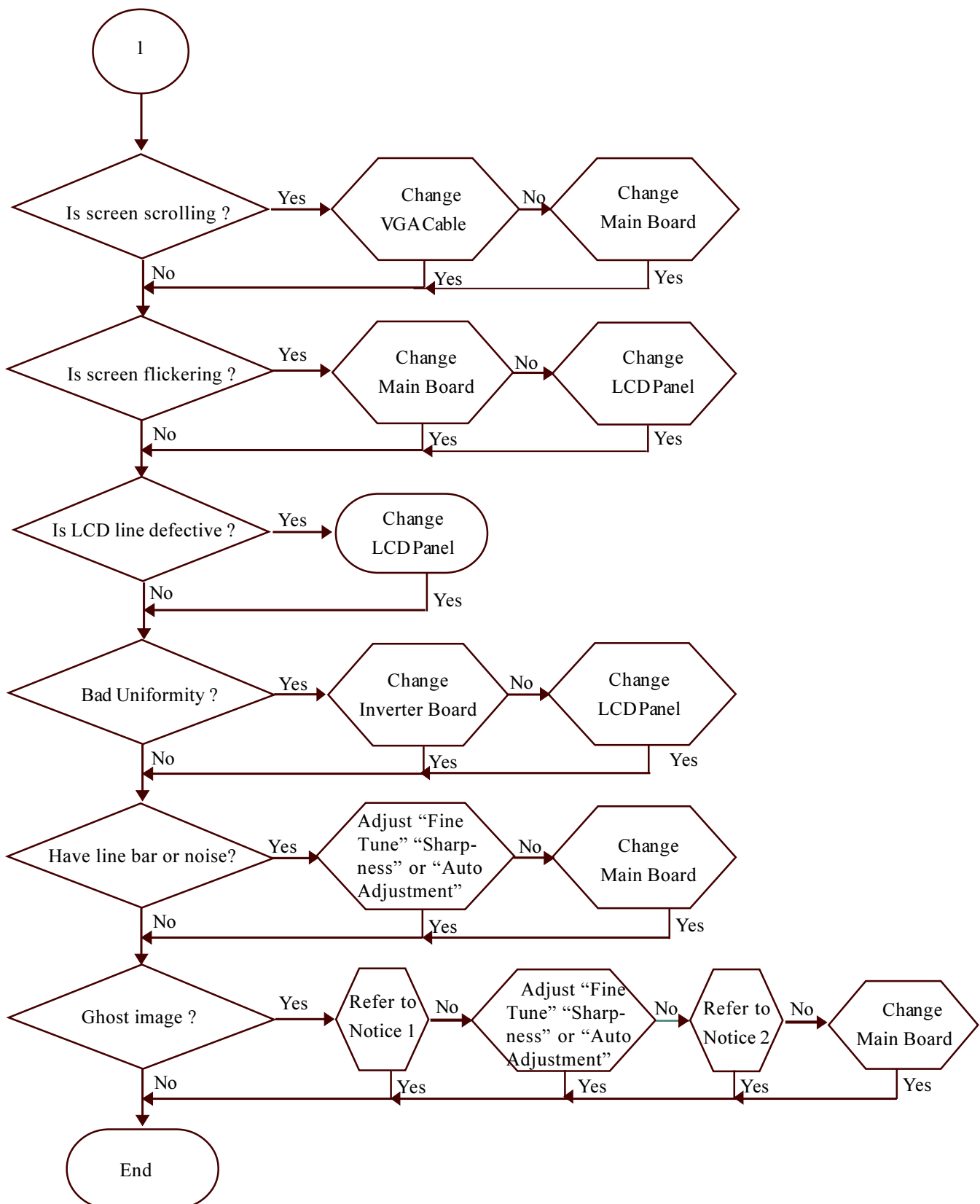


4-2.1 A. Power Circuit Troubleshooting



4-2.2 B. Performance Troubleshooting

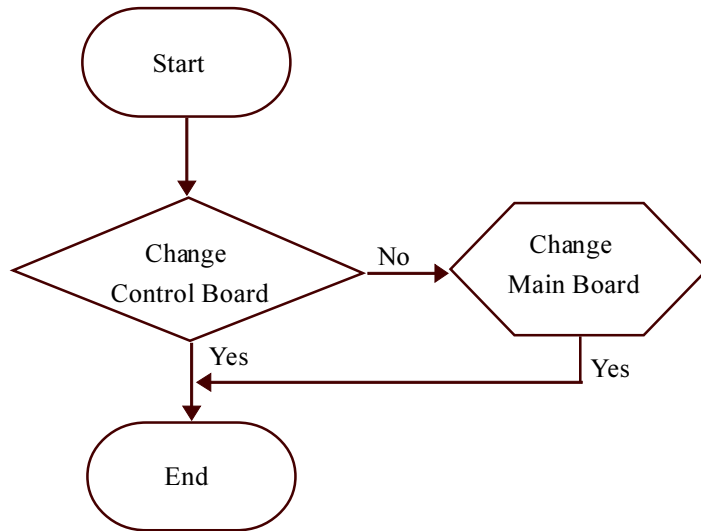




Notice :

1. Make sure VGA cable connect to PC directly and not through a “Data transfer” or “Distribution”.....After this action if Ghost image disappear, go to “Yes”; else, go to “No”.
2. Check the compatibility on the computer. If it is compatibility problem, feedback the information to ViewSonic; else, go to “No”.

4-2.3 C. Control Function Troubleshooting



5. Function Test and Alignment Procedure

5-1 Product

- 17" LCD Monitor

5-2 Test Equipment

- Color Video Signal & Pattern (or PC with SXGA resolution)

5-3 Hot Key

- 1). All Mode Reset:
Press “ ▼”, “ ▲” buttons simultaneously and “Power on” **with signal**, hold on for 3 seconds. Then the screen will show “All Mode Reset”.





- 2). Burn In Mode:
Press “▼”, “▲” buttons simultaneously and “Power on” **without signal**, hold on for 3 seconds. Then the screen will show “Burn In Mode”. Press “1” button, you can find the information about this monitor.



- 3). White Balance:
Set the screen on 640*480@60Hz resolution pure black and white pattern, no other color. Press “1”, “▲” and “▼” simultaneously.





4). OSD Lock :

Press “” and “” buttons simultaneously for 10 seconds, and the OSD will lock. Repeat the action, and the OSD will unlock.



5). Power Lock :

Press “” and “” buttons simultaneously for 10 seconds, and the Power will lock. Repeat the action, and the Power will unlock.



6). Contrast and Brightness Recall :

Press “▲” and “▼” buttons simultaneously, and the contrast and brightness will restore the factory defaults.



7). Test Mode(720*400)/Graphic Mode (640*400) exchange :

Press “**1**” and “**2**” buttons simultaneously.

5-4 Test Condition

Before function test and alignment, each LCD Monitor should be run-in and warmed-up for at least 30 minutes with the following conditions:

- a). In room temperature,
- b). With full-white screen, R.G.B. Black
- c). With cycled display modes,
 - 640*480(H=43.27kHz, V=85Hz)
 - 800*600(H=53.7kHz, V=85Hz)
 - 1024*768(H=68.67kHz, V=85Hz)
 - 1280*1024(H=79.97kHz, V=75Hz)

5-5 Test Display Modes & Pattern

5-5.1 Compatible Modes

Analog :

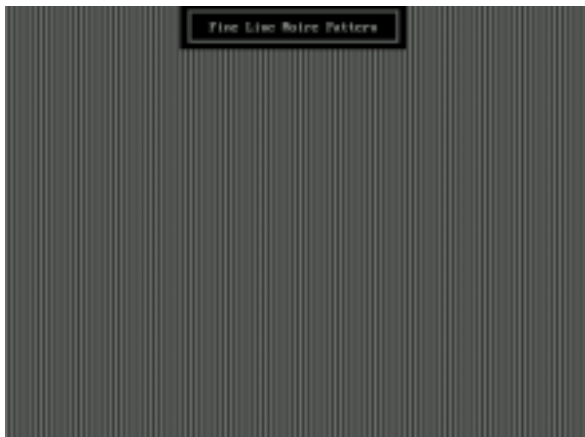
640 x 350 @ 70Hz, 31.5kHz
640 x 480 @ 60Hz, 31.5kHz
640 x 480 @ 67Hz, 35.0kHz
640 x 480 @ 75Hz, 37.5kHz
640 x 480 @ 72Hz, 37.9kHz
640 x 480 @ 85Hz, 43.27kHz
720 x 400 @ 70Hz, 31.5kHz
800 x 600 @ 56Hz, 35.1kHz
800 x 600 @ 60Hz, 37.9kHz
800 x 600 @ 75Hz, 46.9kHz
800 x 600 @ 72Hz, 48.1kHz
800 x 600 @ 85Hz, 53.7kHz
832 x 624 @ 75Hz, 49.7kHz
1024 x 768 @ 60Hz, 48.4kHz
1024 x 768 @ 70Hz, 56.5kHz
1024 x 768 @ 72Hz, 58.1kHz
1024 x 768 @ 75Hz, 60.0kHz
1024 x 768 @ 85Hz, 68.67kHz
1152 x 870 @ 75Hz, 68.6kHz,
1280 x 1024 @ 60Hz, 63.4kHz
1280 x 1024 @ 75Hz, 79.97kHz
1280 x 720 @ 60Hz, 45kHz

Digital :

640 x 350 @ 70Hz, 31.5kHz
640 x 400 @ 70Hz, 31.5kHz
640 x 480 @ 60Hz, 31.5kHz
640 x 480 @ 75Hz, 37.5kHz
640 x 480 @ 72Hz, 37.9kHz
640 x 480 @ 85Hz, 43.27kHz
720 x 400 @ 70Hz, 31.5kHz
800 x 600 @ 56Hz, 35.1kHz
800 x 600 @ 60Hz, 37.9kHz
800 x 600 @ 75Hz, 46.9kHz
800 x 600 @ 72Hz, 48.1kHz
800 x 600 @ 85Hz, 53.7kHz
1024 x 768 @ 60Hz, 48.4kHz
1024 x 768 @ 70Hz, 56.5kHz
1024 x 768 @ 72Hz, 58.1kHz
1024 x 768 @ 75Hz, 60.0kHz
1024 x 768 @ 85Hz, 68.67kHz
1152 x 870 @ 75Hz, 68.6kHz,
1280 x 1024 @ 60Hz, 63.4kHz
1280 x 1024 @ 75Hz, 79.97kHz
1280 x 720 @ 60Hz, 45kHz

5 -5.2 Function Test Display Pattern

Item	Test Content	Pattern	Specification	Remark
1	Frequency & Tracking	Fine Line Moire	Eliminate visual wavy noise.	Figure 1
2	Contrast/Brightness	16 Gray Scale	16 gray levels should be distinguishable.	Figure 2
3	Boundary	Horizontal & Vertical Thickness	Horz. and Vert. position of video should be adjustable to be within the screen frame.	Figure 3
4	R,G,B, Color Performance	R.G.B Color Intensities	Contrast of each R,G,B, color should be normal.	Figure 4,5,6
5	Screen Uniformity & Flicker	Full White	Should be compliant with the spec.	Figure 7
6	Dead Pixel/Line	White Screen Dark Screen	The numbers of dead pixels should be compliant with the spec.	Figure 7,8
7	White Balance	White & Black Pattern	The screen must have the pure white and black pattern, no other color.	Figure 9



Fine Line Moire Pattern (Figure 1)



Gray Scale Pattern (Figure 2)



Horizontal & Vertical Thickness Pattern
(Figure 3)



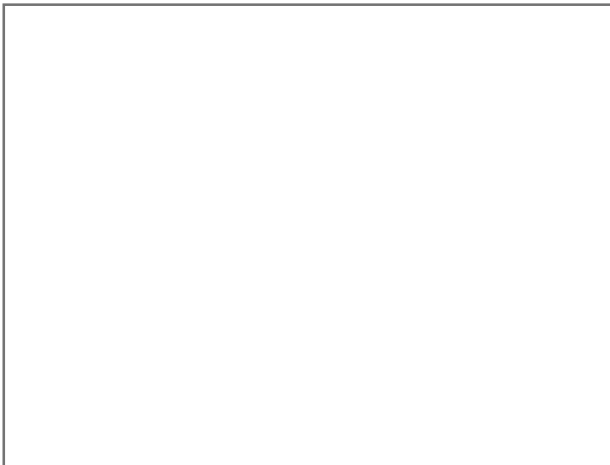
R. Color Pattern (Figure 4)



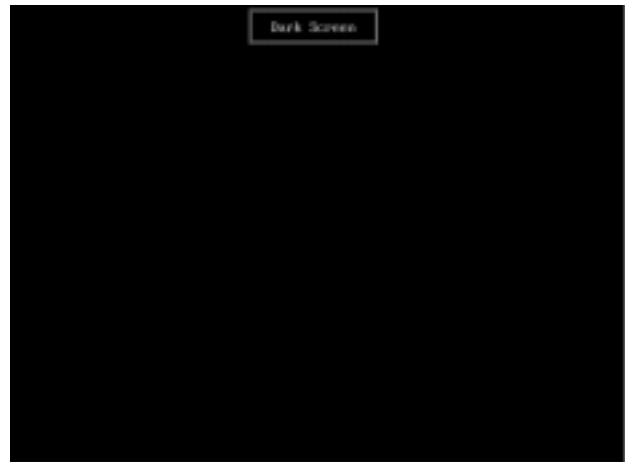
G. Color Pattern (Figure 5)



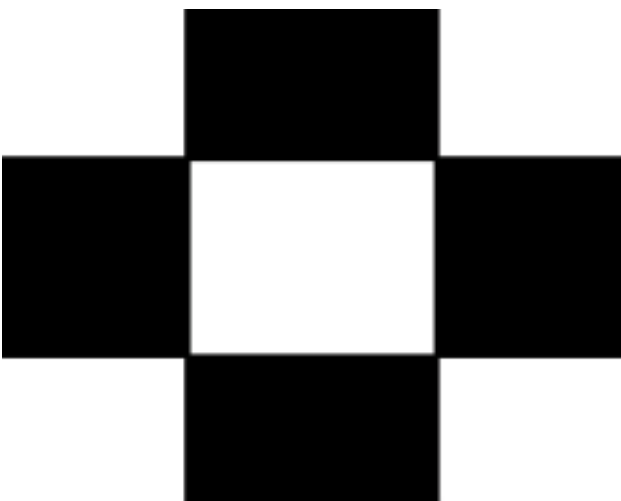
B. Color Pattern (Figure 6)



Full White Pattern (Figure 7)



Dark Screen Pattern (Figure 8)



Black-White Pattern (Figure 9)

5-6 Function Test and Alignment Procedure

5-6.1 All Modes Reset

You should do “All Mode Reset” (Refer to Chapter 5-3) first.

This action will allow you to erase all end-user’s settings and restore the factory defaults.

5-6.2 Auto Image Adjust

Please select and enter “**Auto Image Adjust**” function on Main Menu to see if it is workable. The “**Auto Image Adjust**” function is aimed to offer a better screen quality by built-in ASIC. For optimum screen quality, the user has to adjust each function manually.

5-6.3 Firmware and DDC

Test Pattern: Burn In Mode (Refer to Chapter 5-3)

- Make sure the F/W is the latest version.
- Make sure the S/N is the same as the Spec. label.
- Make sure the model name is correct.

5-6.4 Fine Tune and Sharpness

Test Signal: 1280*1024@60Hz

Test Pattern: Line Moire Pattern

- Check and see if the image has noise and focus performs well.
eliminate visual line bar.
- If not, readjust by the following steps :
 - (a) Select and enter “**Fine Tune**” function on “**Manual Image Adjust**” to adjust the image to eliminate visual wavy noise.
 - (b) Then, select and enter “**Sharpness**” function to adjust the clarity and focus of the screen image.

5-6.5 Boundary

Test Signal : 1280*1024@60Hz

Test Pattern : Horizontal & Vertical Line Thickness Pattern

- Check and see if the image boundary is within the screen frame.
- If not, readjust by the following steps :
 - (a) Select and enter “**Manual Image Adjust**” function on OSD Main Menu.
 - (b) Then, select and enter “**Horizontal Size**” or “**Horizontal/Vertical Position**” function to adjust the video boundary to be full scanned and within screen frame.

5-6.6 White Balance

Test Signal : 1280*1024@60Hz

Test Pattern: Full White and Black Pattern

- Refer to Chapter 5-3

5-6.7 R,G,B, Colors Contrast

Test Signal: 1280*1024@60Hz

Test Pattern: R,G,B Color Intensities Pattern and 16 Gray Scale Pattern

- Check and see if each color is normal and distinguishable.
- If not, please return the unit to repair area.

5-6.8 Screen Uniformity and Flicker

Test Signal: 1280*1024@60Hz

Test Pattern: Full White Pattern

- Check and see if it is in normal condition.

5-6.9 Dead Pixel and Line

Test Signal: 1280*1024@60Hz

Test Pattern: Dark and White Screen Pattern

- Check and see if there are dead pixels on LCD panel with shadow gauge and filter film.
- The total numbers and distance of dead pixels should be compliant with the spec.

5-6.10 Check for Secondary Display Modes

Test Signal:

Analog : 640*350@70Hz; 640*480@60/67/72/75/85Hz;

720*400@70Hz; 800*600@56/60/72/75/85Hz;

832*624@75Hz, 1024*768@60/70/72/75/85Hz;

1152*870@75Hz, 1280*720@60Hz, 1280*1024@60/75Hz

Digital : 640*350@70Hz; 640*450@75Hz; 640*480@60/72/75Hz;

720*400@70Hz; 800*600@56/60/72/75/85Hz;

1024*768@60/70/72/75/85Hz; 1152*870@75Hz, 1280*720@60Hz, 1280*1024@60/75Hz

- Normally when the primary mode 1280*1024@75Hz is well adjusted and compliant with the specification, the secondary display modes will also be compliant with the spec. It is still necessary to check with the **general test pattern** to make sure every secondary is compliant with the specification.

5-6.11 All Modes Reset

After final QC step, we have to erase all saved changes again and restore the factory defaults. You should do “All Mode Reset” again.

5-6.12 Power Off Monitor

Turn off monitor by pressing “Power” button, and turn off the “Switch” that is back of the monitor.

6. Firmware Upgrade Procedure

6-1 Equipment Needed

- VP171/s/b Series Monitor
- Fixture for Firmware Upgrade
- Power Adapter (P/N : 47.58201.001) *1 for Fixture
- VGACable (P/N : 42.59901.008) *1
- PC (Personal Computer)
- LTP Cable (P/N : 42.59906.001) *1
- Firmware Upgrade Program
- One additional monitor for checking the program execution



VP171 Monitor



Fixture



Printer Port

PC



VGACable (P/N: 42.59901.008)



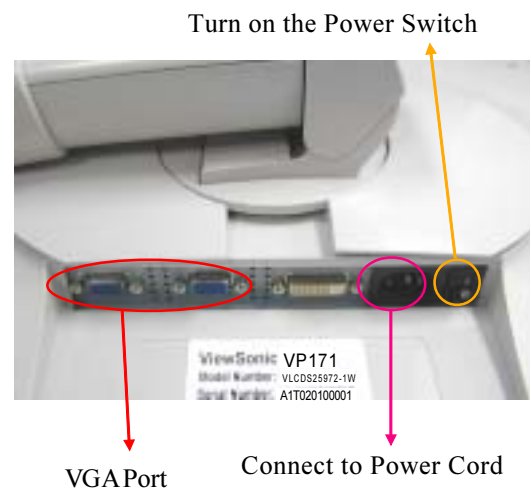
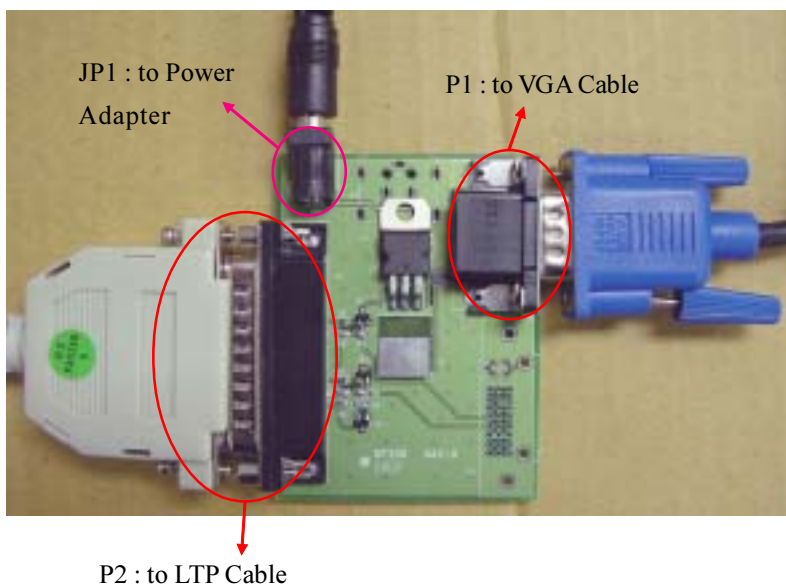
Power Adapter for Fixture
(P/N:47.58201.001)



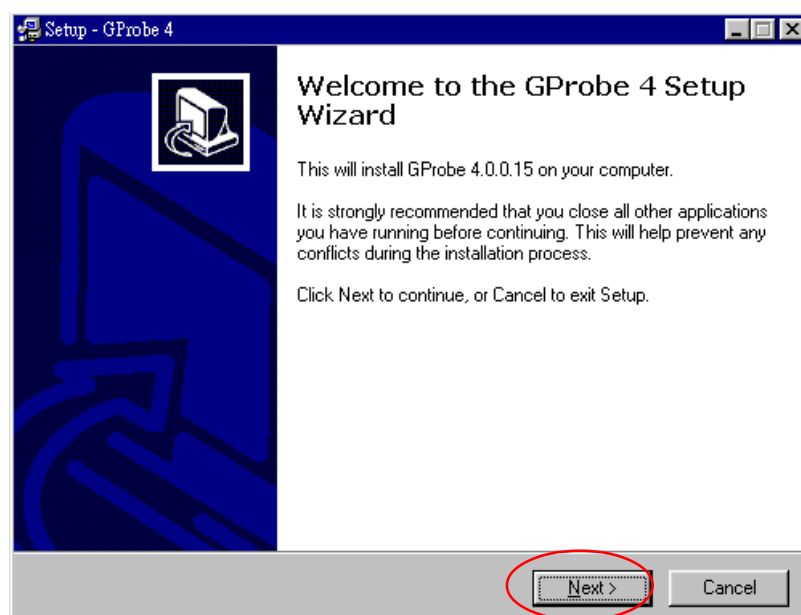
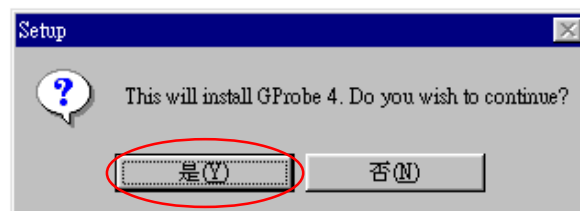
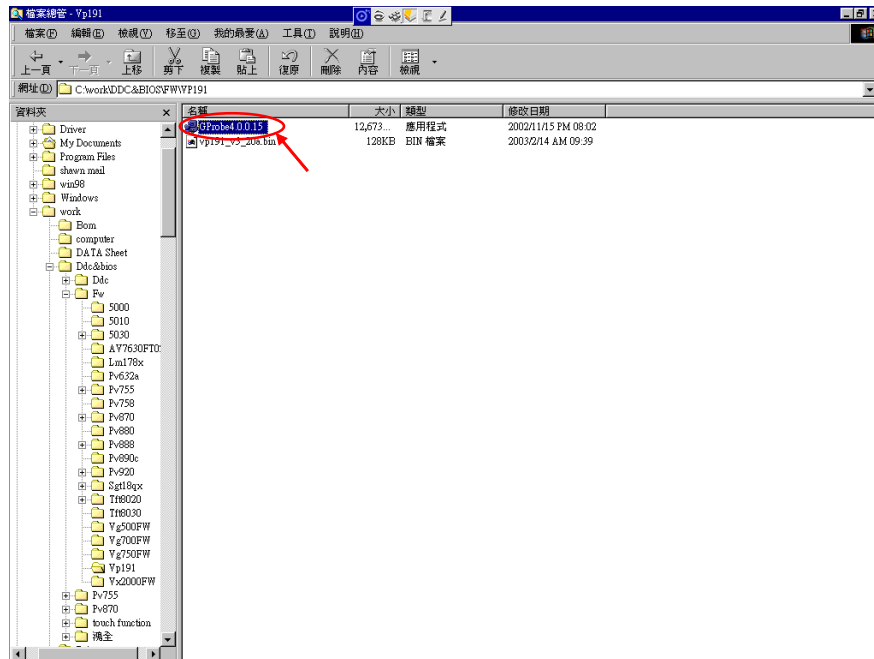
LTP Cable (P/N: 42.59906.001)

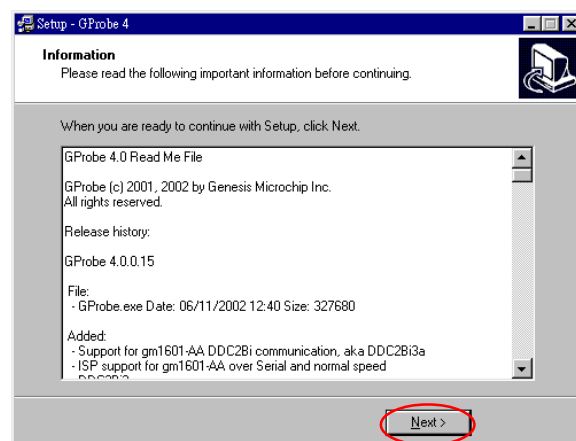
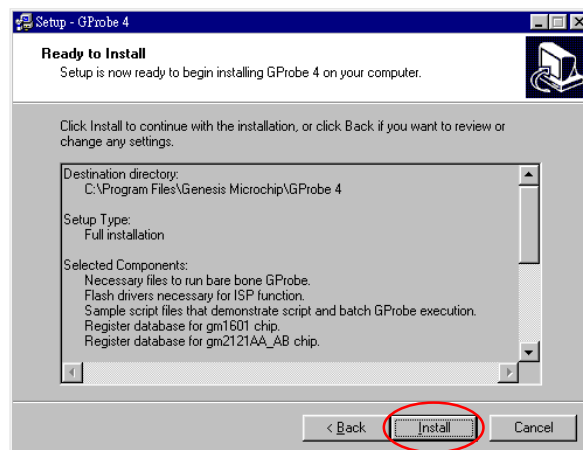
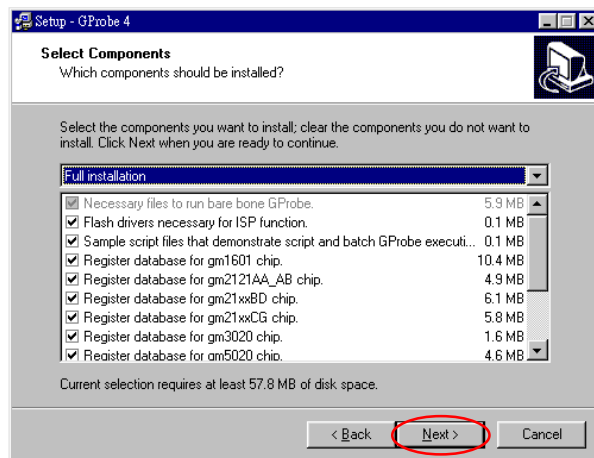
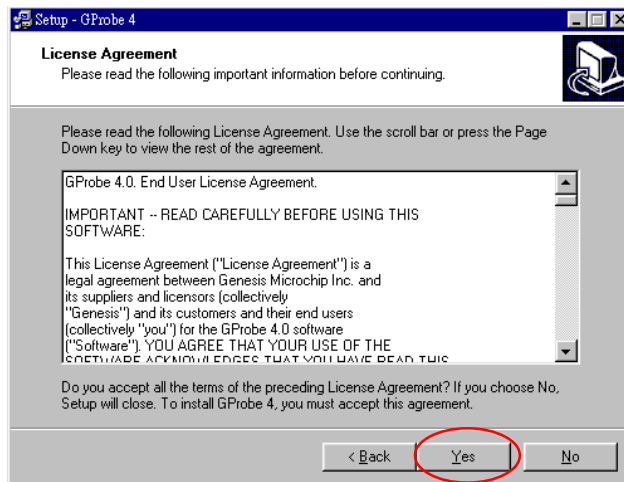
6-2 Set-up Procedure

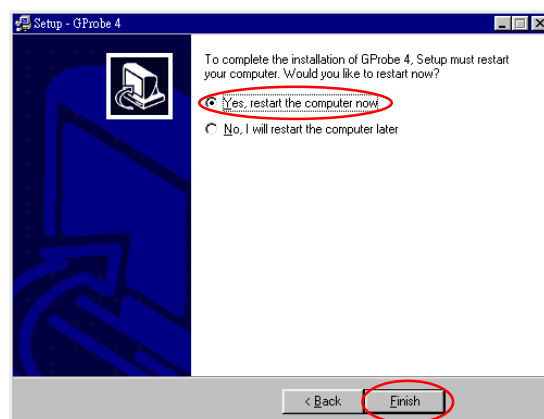
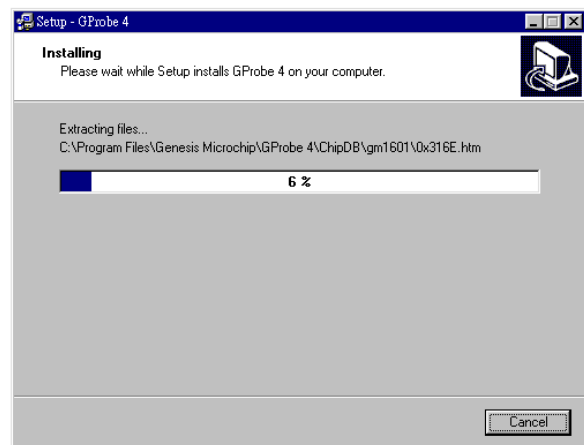
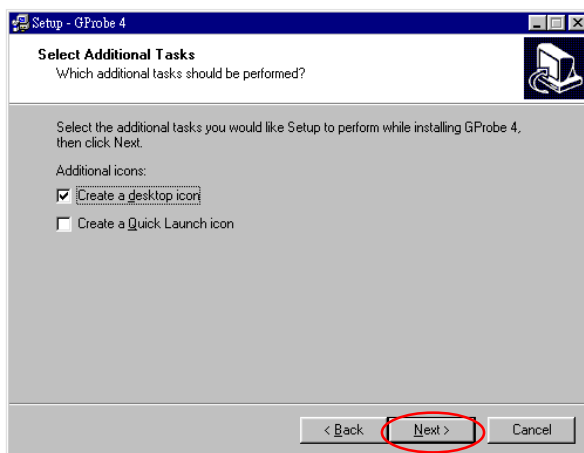
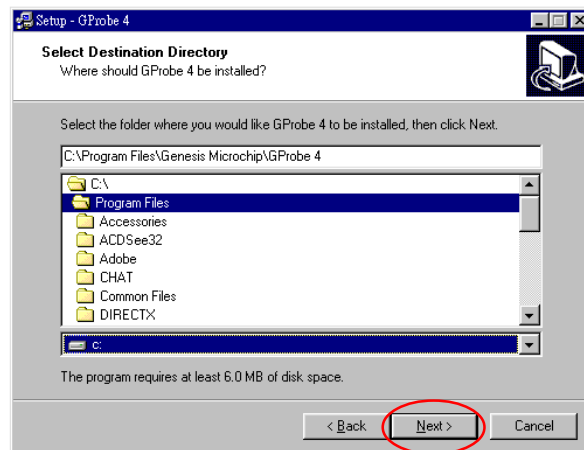
1. Connect P2 of Fixture with printer port of PC by LTP Cable.
2. Connect P1 of Fixture with VP171/s/b Monitor by VGA Cable.
3. Plug Power Adapter to Fixture.
4. Connect Power Cord to VP171/s/b Monitor, and turn on the Power Switch.
5. Connect PC to the additional monitor.



6. Install GProbe Program by selecting and clicking Gprobe icon.
Press “Yes” or “Next” buttons until the program is finished.

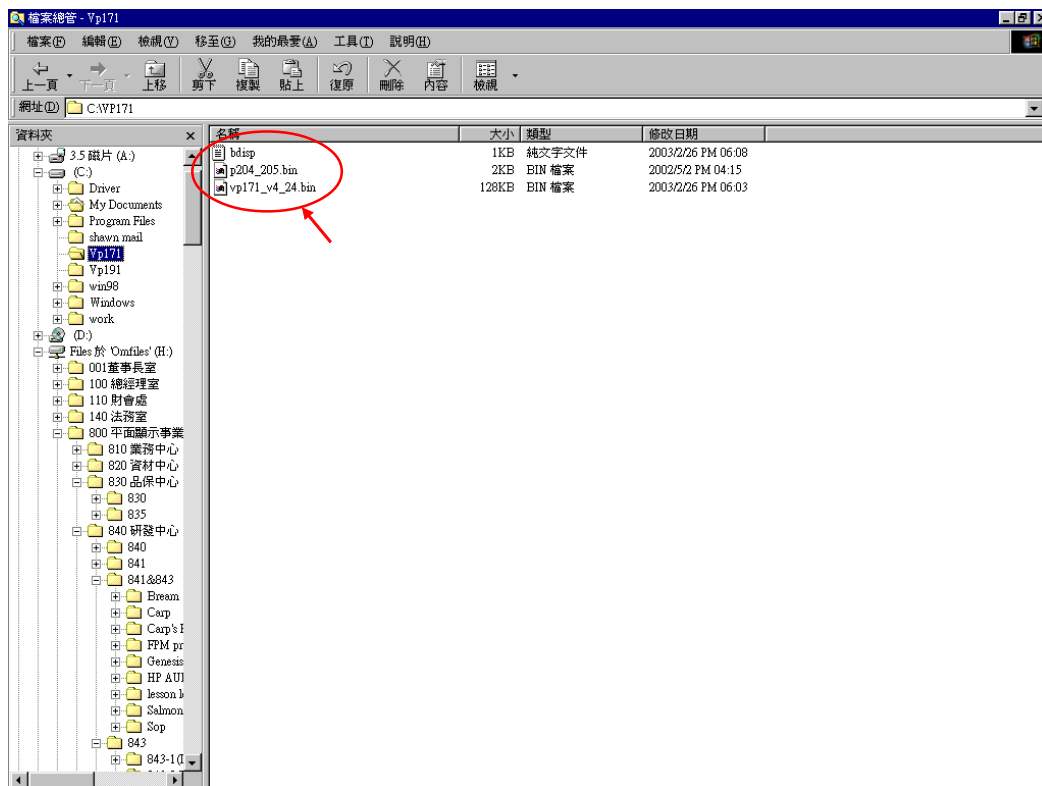




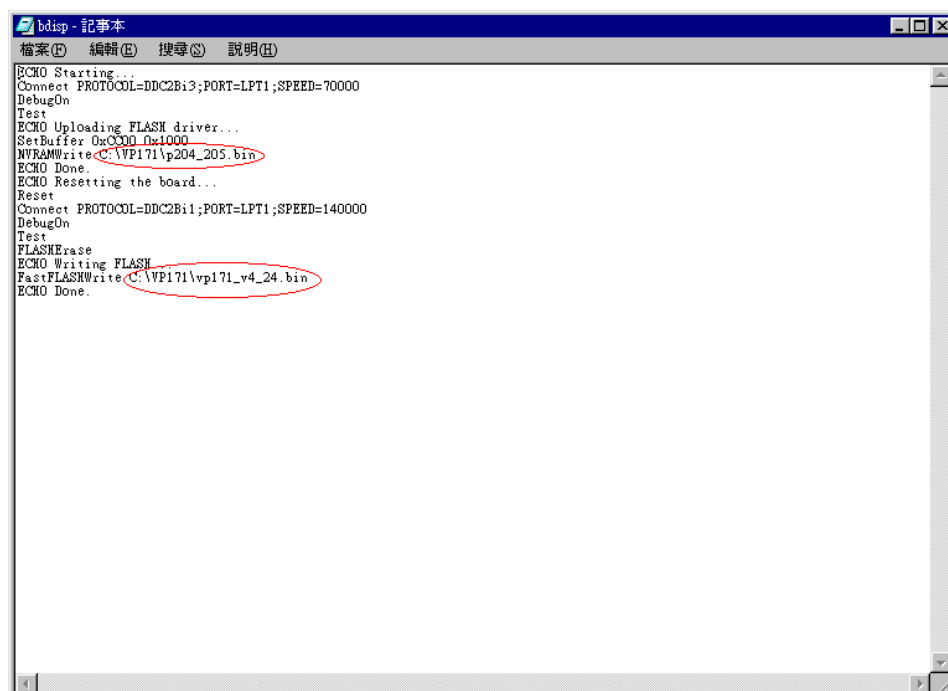


6-3 Firmware Upgrade Procedure

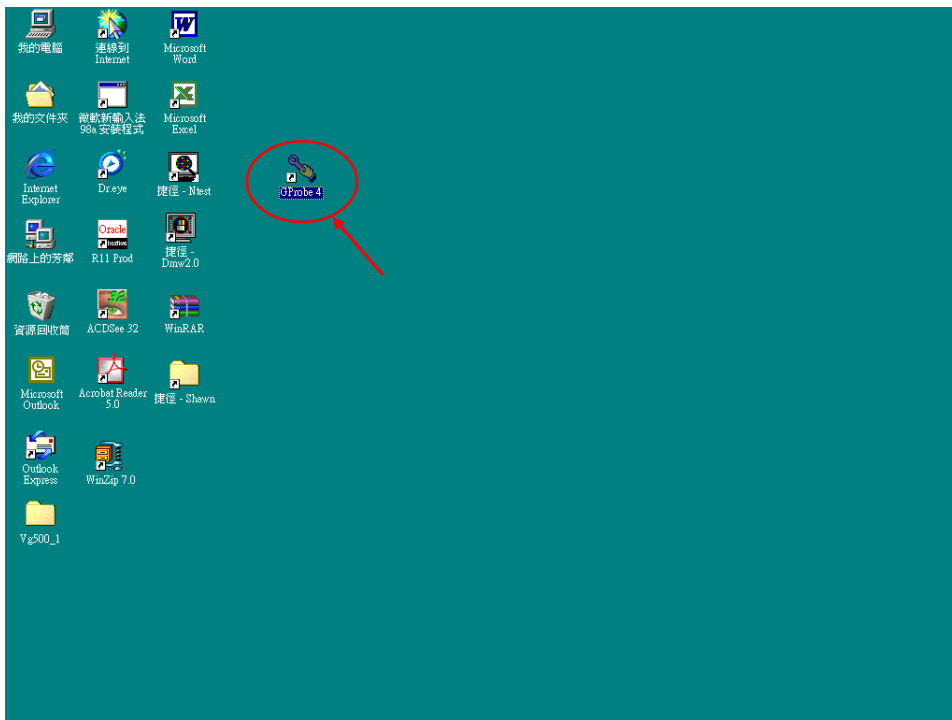
1. Save these three files <bdisp.txt>, <p204_205.bin> and <vp171_v4_24.bin> in the computer.



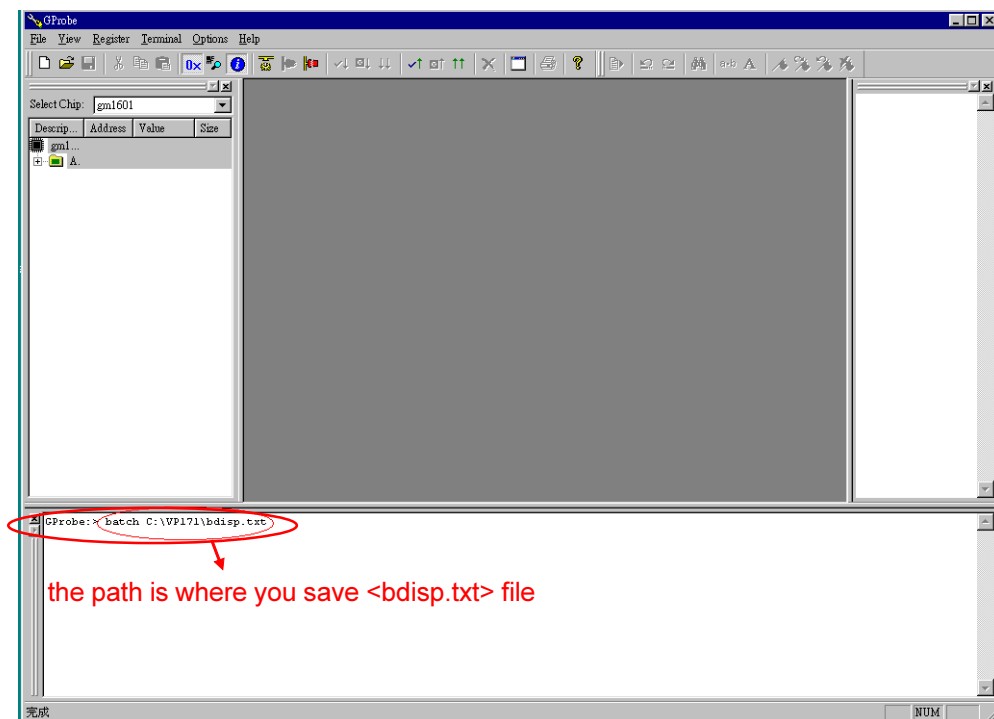
2. Open <bdisp.txt> file.
Key in the path where you save the driver <p204_205.bin> and firmware <vp171_v4_24.bin>.



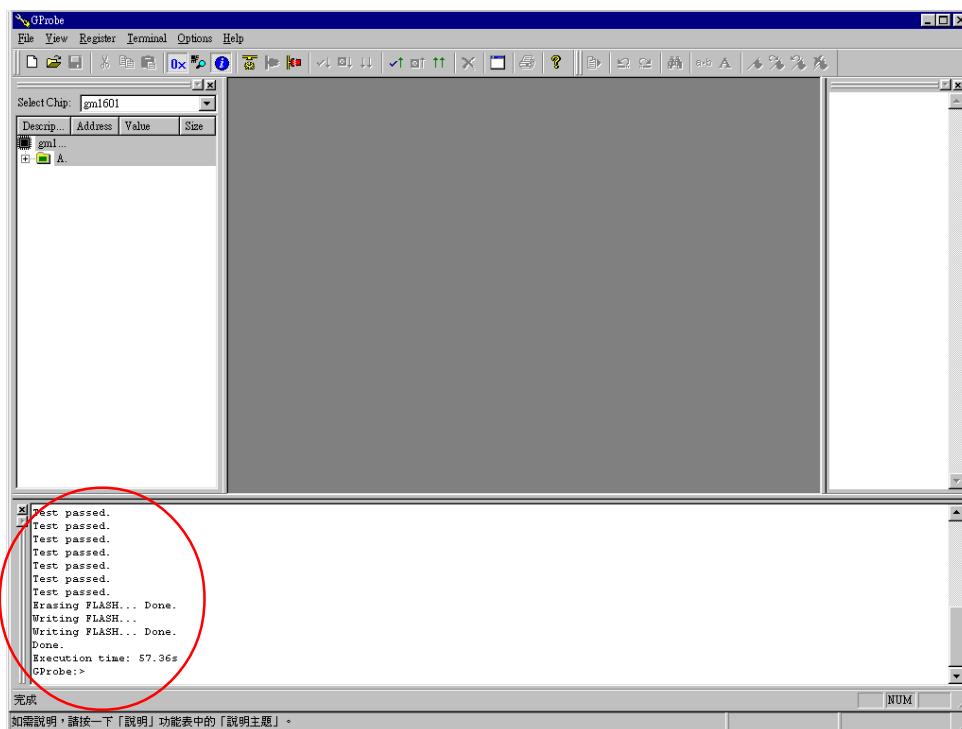
3. Execute Gprobe program.



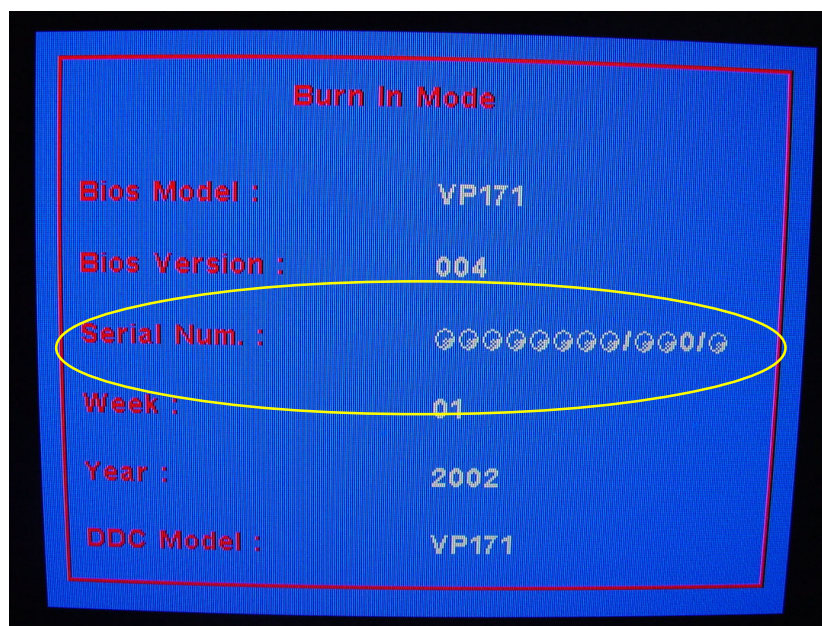
4. Key in “batch c:\VP171\bdisp.txt” after “GProbe :>”, then press “Enter” key to begin programming automatically.



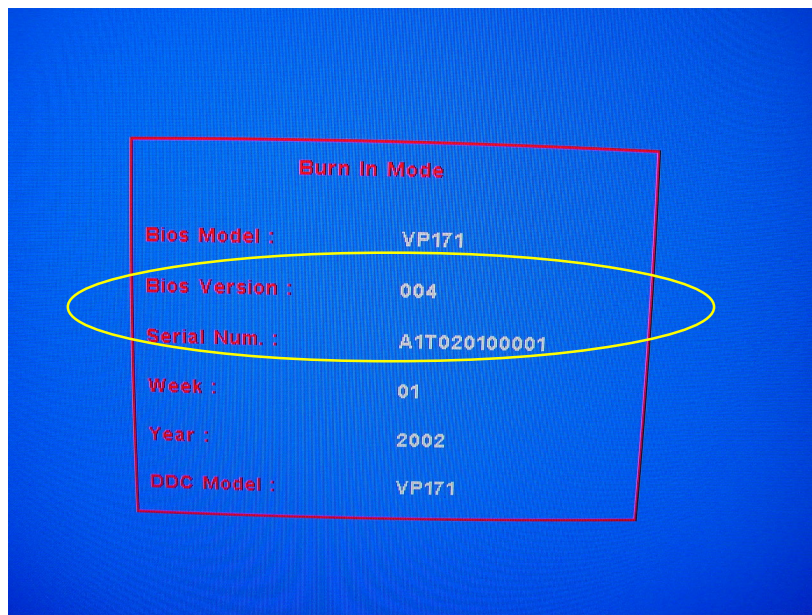
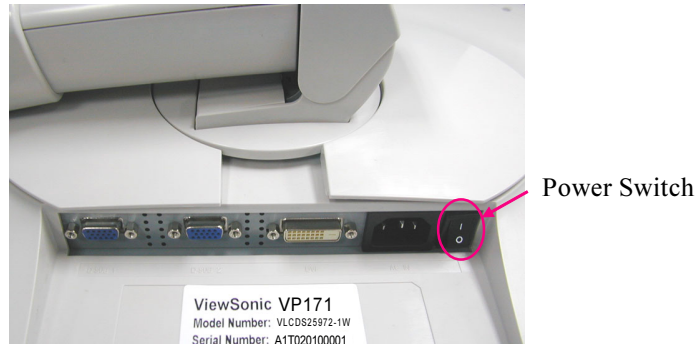
5. The successful picture is as follows :



6. Enter “Burn In Mode” (Refer to Chapter 5-3), and you could find that Serial Number disappears.



7. Turn off the power switch of the rear cover of VP171/s/b, and turn it on again.
Then enter “Burn In Mode”, and Serial Number will appear. Check if the version of BIOS is correct.



8. Connect the signal, and the monitor will slant to red color. Refer to Chapter 5-3 to do “White Balance”.
9. At last, do “All Mode Reset”.

7. DDC Key In Procedure

7-1 Equipment Needed

- VP171/s/b Series Monitor
- Fixture(V3) for DDC Key In (JP3 must be closed)
- RS232 Cable (P/N : 42.55907.001) *1
- VGA Cable (P/N : 42.59901.008) *2
- DVI-DVI Cable *1
- PC (Personal Computer)
- Power Adapter (P/N: 47.56001.501) *1 for Fixture
- DDC Key In Program
- One additional monitor for checking the program execution



Fixture



VGA Cable (P/N: 42.59901.008)



COM1 : to
RS232 Cable

PC



RS-232 Cable (P/N: 42.55907.001)



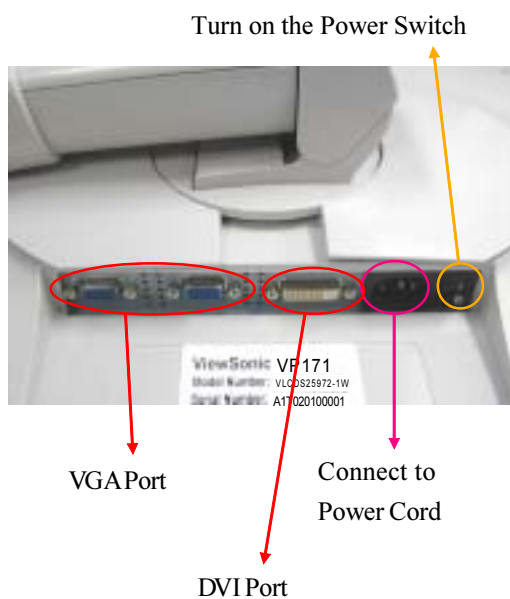
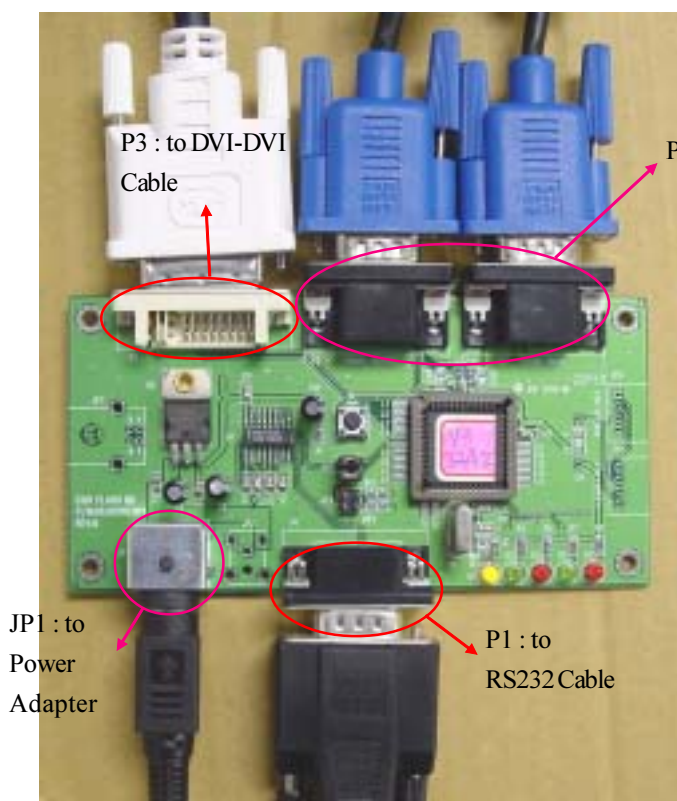
DVI-DVICable



Power Adapter for Fixture
(P/N:47.56001.501)

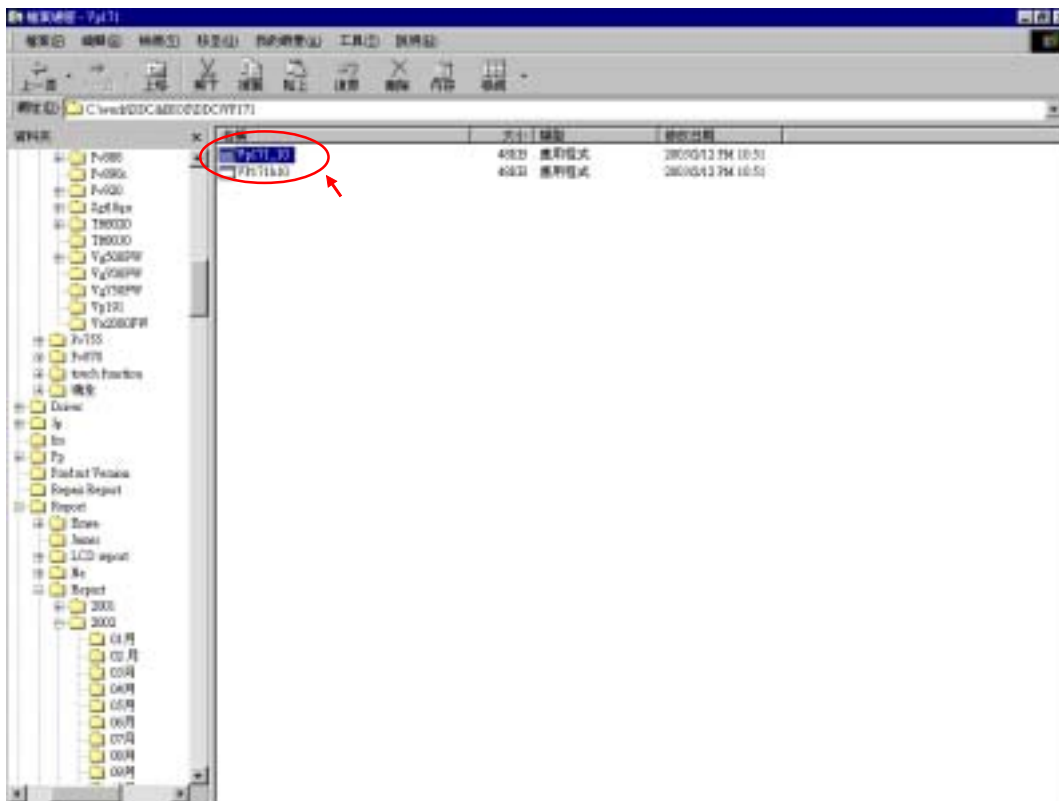
7-2 Set-Up Procedure

1. Connect P2 and P4 of Fixture with VGA ports of VP171/s/b by two VGA Cables.
2. Connect P3 of Fixture with DVI port of VP171/s/b by DVI-D Cable.
3. Connect P1 of Fixture with COM1 of PC by RS232 Cable.
4. Plug Power Adapter to Fixture.
5. Connect Power Cord to VP171/s/b Monitor, and turn on the Power Switch.
6. Connect PC to the additional monitor.

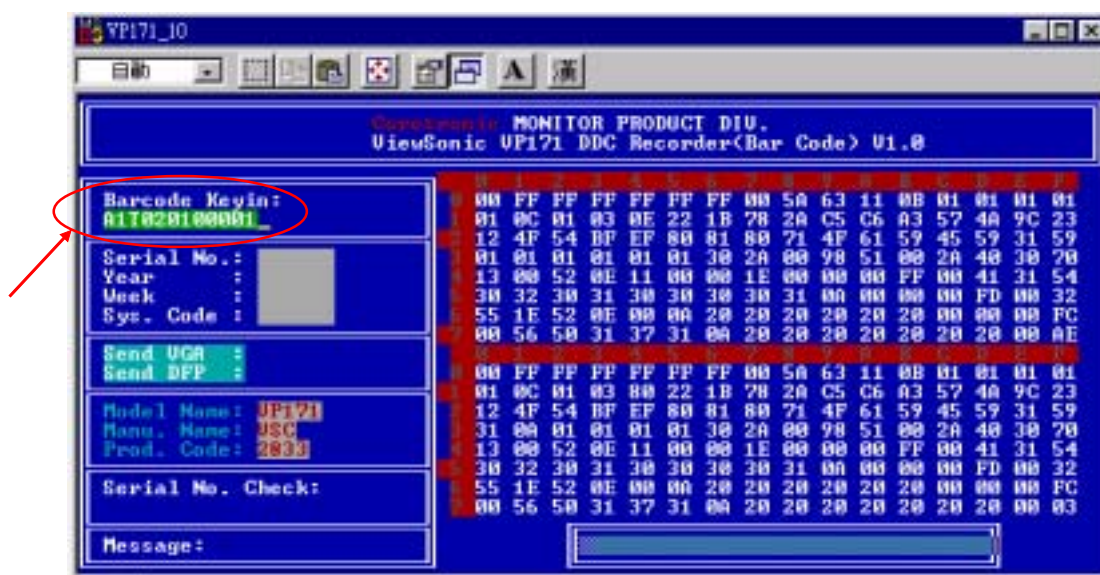


7-3 DDC Key In Procedure

1. Select and execute DDC Key In program.



2. Key in the serial number and press “Enter” key.



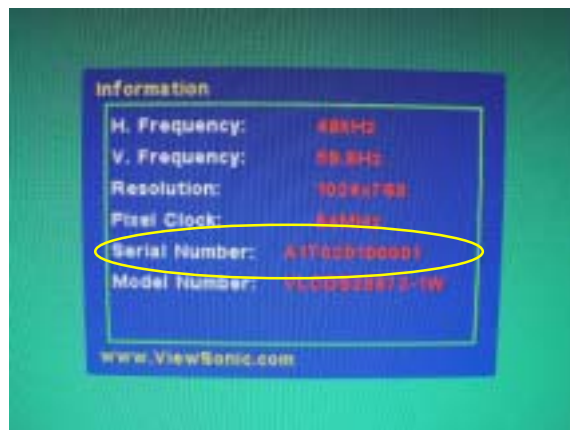
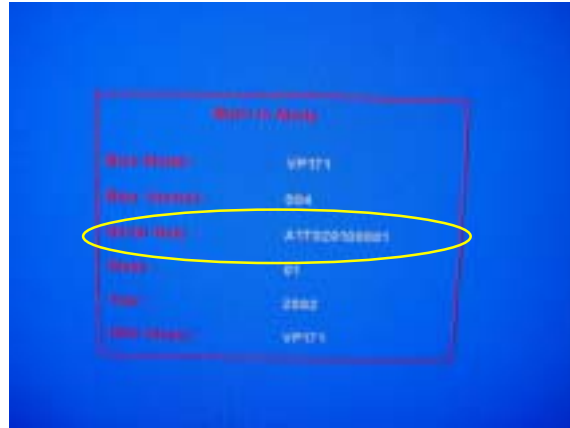
3. The successful picture is as follows :
(There are checksum values appearing when VGA and DVI success.)



4. Press “~” button (“Shift”+ “~”) to check DDC CheckSum is correct or not.



5. Enter “Burn In Mode” (refer to Chapter 5-3). Turn off the power switch of the rear cover of VP171/s/b, and turn it on again. Then enter “Burn In Mode” again and “Information” of OSD Main Menu. Check if the information is correct.



8. Packing For Shipping

8-1 *Packing Procedure*

1. Put the PE bag on the monitor.



2. Put the Cushions on the monitor.



3. Put the monitor into carton.

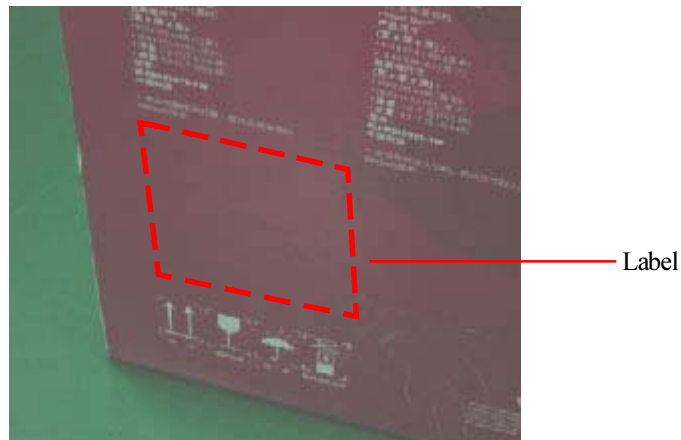
Note : LCD Panel should face to the side as the following picture.



4. Put the accessories into the carton as the following picture. Then close the cover of the carton and tape.



5. Tape the carton closed.



Label Format

9. Appendix

9-1 The Serial Number System Definition

9-1.1 Serial Number for LCD Display

- A. Model Number : VLCDS25972-1W for VP171
VLCDS25972-2W for VP171b
VLCDS25972-3W for VP171s

B. Serial Number Format

PPP YY WW XXXXX
① ② ③ ④

- ① : PPP = Regional Product ID Code (ex : A1T = VP171)
② : YY = Last 2 digits of manufacturing year (ex : 02 = 2002)
③ : WW = Manufacturing week of year
④ : XXXXX = Sequence number

EX: A1T020100001

This label “A1T020100001” represents that is VP171 monitor, the sequence number is 00001, made on 1-week of 2002.

9-1.2 Serial Number for PCBA Main Board

M VV B Y X A1 EEEE
① ② ③ ④ ⑤ ⑥ ⑦

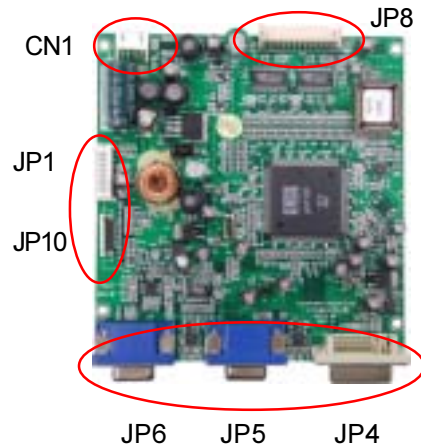
- ① : M = Vender (ex : M=Might)
② : VV = Model Code (ex : K2=VP171/s/b Series)
③ : B = PCBA Board (ex : M=Main Board)
④ : Y = Last Digit of the Year (ex : 2 = 2002)
⑤ : X = Month (ex : Jan.~ Sep.=1~9, Oct.~Dec.=X, Y, Z)
⑥ : A1 = Version (ex : A1, B2.....)
⑦ : EEEE = Sequence number (from 0001~)

EX: MK2M32B10043

This label “MK2M32B10043” represents Main Board Vender is Might, version is B1 for VP171/s/b on Feb., 2003. Its serial code is 0043.

9-2 Function of Boards

A. Main Board



11-2.2 CN1 Connector

Pin #	Description	Function
1	+12VA	+12V
2	+12VA	+12V
3	GND	Ground
4	GND	Ground

11-2.3 JP1 Connector

Pin #	Description	Function
1	+12VA	+12V
2	GND	Ground
3	BRI	Brightness Control
4	GND	Ground
5	GND	Ground
6	+12VA	+12V
7	GND	Ground
8	On	Backlight ON/OFF Control
9	GND	Ground
10	GND	Ground

9-2.4 JP4 Connector

Pin #	Description	Function
1	RX2-	TMDS negative differential input channel 2
2	RX2+	TMDS positive differential input channel 2
3	GND	Ground
4	RX4-	No Connection
5	RX4+	No Connection
6	SCL	DDC2B Clock
7	SDA	DDC2B Data
8	N.C.	No Connection
9	RX1-	TMDS negative differential input channel 1
10	RX1+	TMDS positive differential input channel 1
11	GND	Ground
12	N.C.	No Connection
13	N.C.	No Connection
14	DVI 5V	+5V
15	GND	Ground
16	SNES	Pull High
17	RX0-	TMDS negative differential input channel 0
18	RX0+	TMDS positive differential input channel 0
19	GND	Ground
20	N.C.	No Connection
21	N.C.	No Connection
22	GND	Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock
25	N.C.	No Connection
26	N.C.	No Connection
27	N.C.	No Connection
28	N.C.	No Connection
29	GND	Ground

9-25 JP5/6

Pin #	Description	Function
1	RIN	Red Video Input
2	GIN	Green Video Input
3	BIN	Blue Video Input
4	N.C.	No Connection
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	5V	+5V
10	GND	Ground
11	N.C.	No Connection
12	SDA	Serial Data
13	HS	Horizontal Sync
14	VS	Vertical Sync
15	SCL	Serial Clock

9-26 JP8

Pin #	Description	Function
1	VPL	+5V
2	VPL	+5V
3	VPL	+5V
4	GND	Ground
5	SEL LVDS	Select LVDS Data Order
6	Vcont	No Connection
7	GND	Ground
8	RxOIN3+	Positive Transmission Data Of Pixel 3 (Even Data)
9	RxOIN3-	Negative Transmission Data Of Pixel 3 (Even Data)
10	RxOCLKIN+	Positive Sampling Clock (Even Data)
11	RxOCLKIN-	Negative Sampling Clock (Even Data)

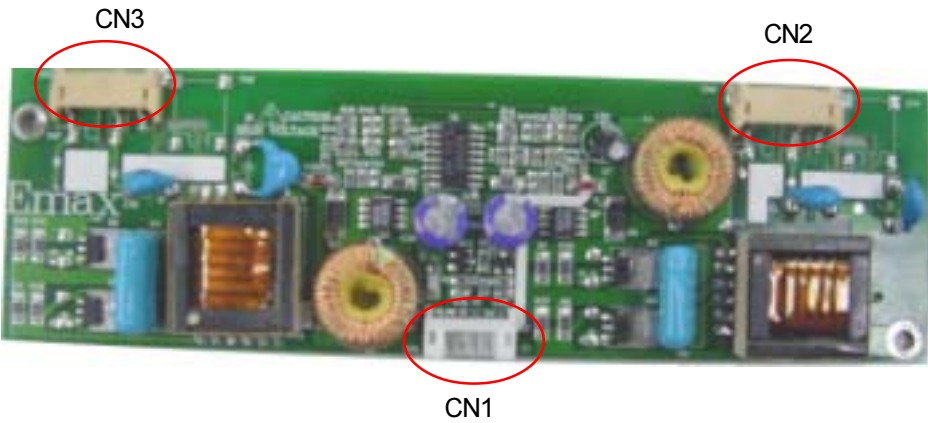
Pin #	Description	Function
12	RxOIN2+	Positive Transmission Data Of Pixel 2 (Even Data)
13	RxOIN2-	Negative Transmission Data Of Pixel 2 (Even Data)
14	GND	Ground
15	RxON1+	Positive Transmission Data Of Pixel 1 (Even Data)
16	RxON1-	Negative Transmission Data Of Pixel 1 (Even Data)
17	GND	Ground
18	RxOIN0+	Positive Transmission Data Of Pixel 0 (Even Data)
19	RxOIN0-	Negative Transmission Data Of Pixel 0 (Even Data)
20	RxEIN3+	Positive Transmission Data Of Pixel 3 (Odd Data)
21	RxEIN3-	Negative Transmission Data Of Pixel 3 (Odd Data)
22	RxECLKIN+	Positive Sampling Clock (Even Data)
23	RxECLKIN-	Negative Sampling Clock (Odd Data)
24	GND	Ground
25	RxEIN2+	Positive Transmission Data Of Pixel 2 (Odd Data)
26	RxEIN2-	Negative Transmission Data Of Pixel 2 (Odd Data)
27	RxEIN1+	Positive Transmission Data Of Pixel 1 (Odd Data)
28	RxEIN1-	Negative Transmission Data Of Pixel 1 (Odd Data)
29	RxEIN0+	Positive Transmission Data Of Pixel 0 (Odd Data)
30	RxEIN0-	Negative Transmission Data Of Pixel 0 (Odd Data)

9-2.7 JP10

Pin #	Description	Function
1	GND	Ground
2	KPWR	Power Switch
3	GND	Ground
4	KLEDR	Power LED Red
5	KLEDG	Power LED Green
6	N.C.	No Connection
7	KUP	Increase
8	KDOWN	Decrease
9	N.C.	No Connection
10	KSELECT	Select Key
11	KMENU	Menu Key
12	N.C.	No Connection

B. Inverter Board

9-2.8 The Location of Connectors



9-2.9 CN1 Connector

Pin #	Description	Function
1	Vin	+12V
2	Vin	+12V
3	On/Off	On/Off
4	Brightness	Brightness Control
5	GND	Ground
6	GND	Ground

9-2.10 CN2 Connector

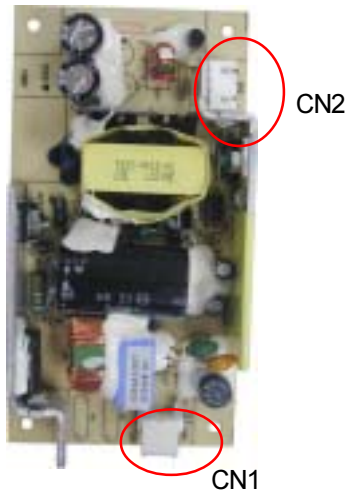
Pin #	Description	Function
1	H.V.	High Voltage Output
2	GND	Ground

9-2.11 CN3 Connector

Pin #	Description	Function
1	H.V.	High Voltage Output
2	GND	Ground

C. Power Board

9 -2.14 *The Location of Connectors*



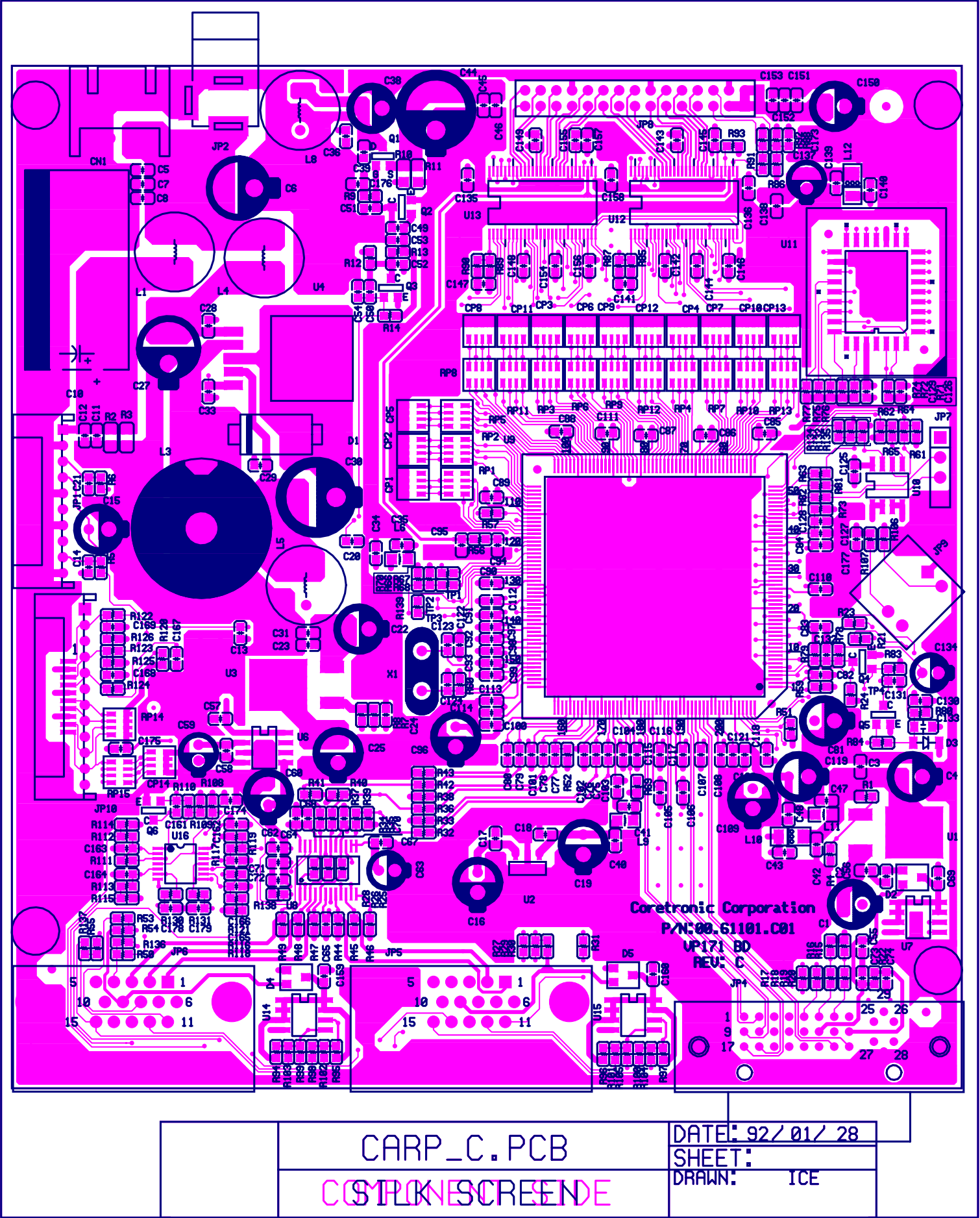
11-2.13 CN1

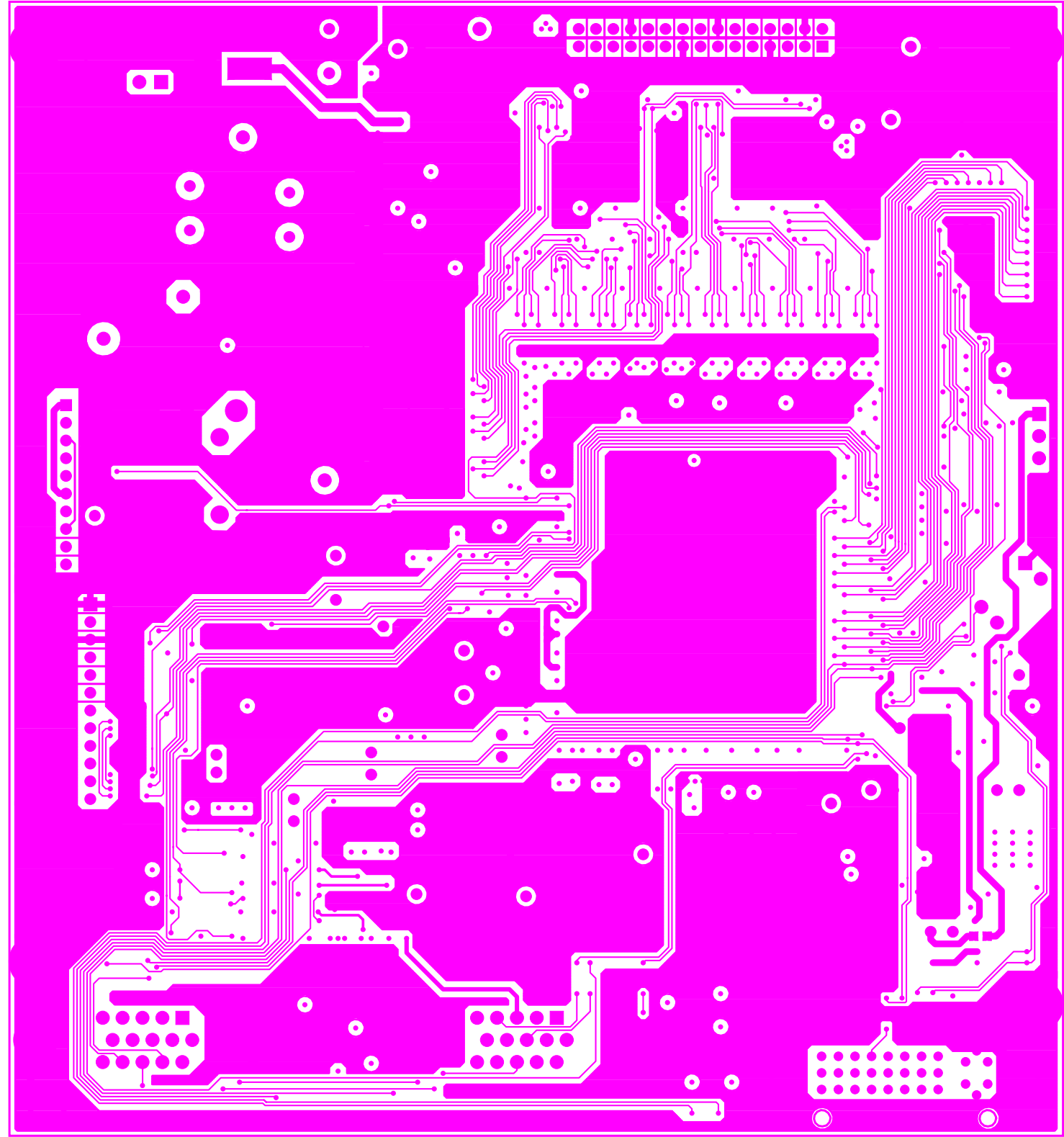
Pin #	Description	Function
1	L	Line
2	G	Ground
3	N	Neutral

11-2.14 CN2

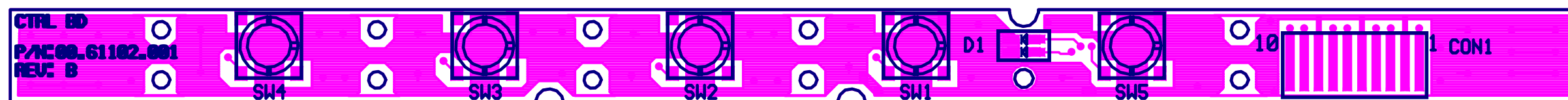
Pin #	Description	Function
1	+12V	+12V
2	GND	Ground

10. PCB Layout

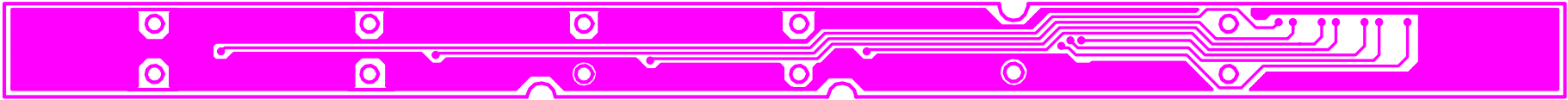




	CARP_C.PCB	DATE: 92/ 01/ 28
	SOLDER SIDE	DRAWN: ICE

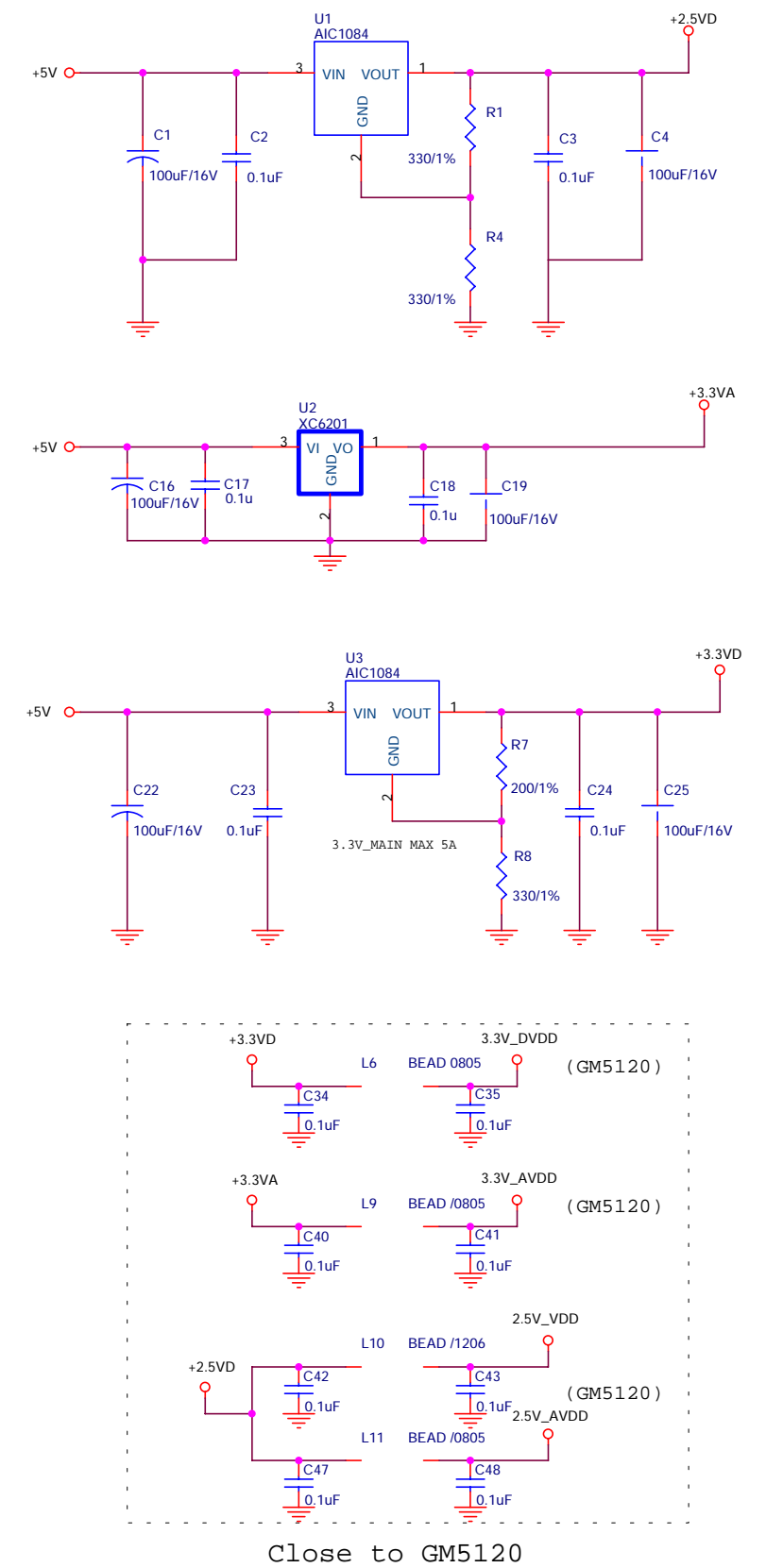
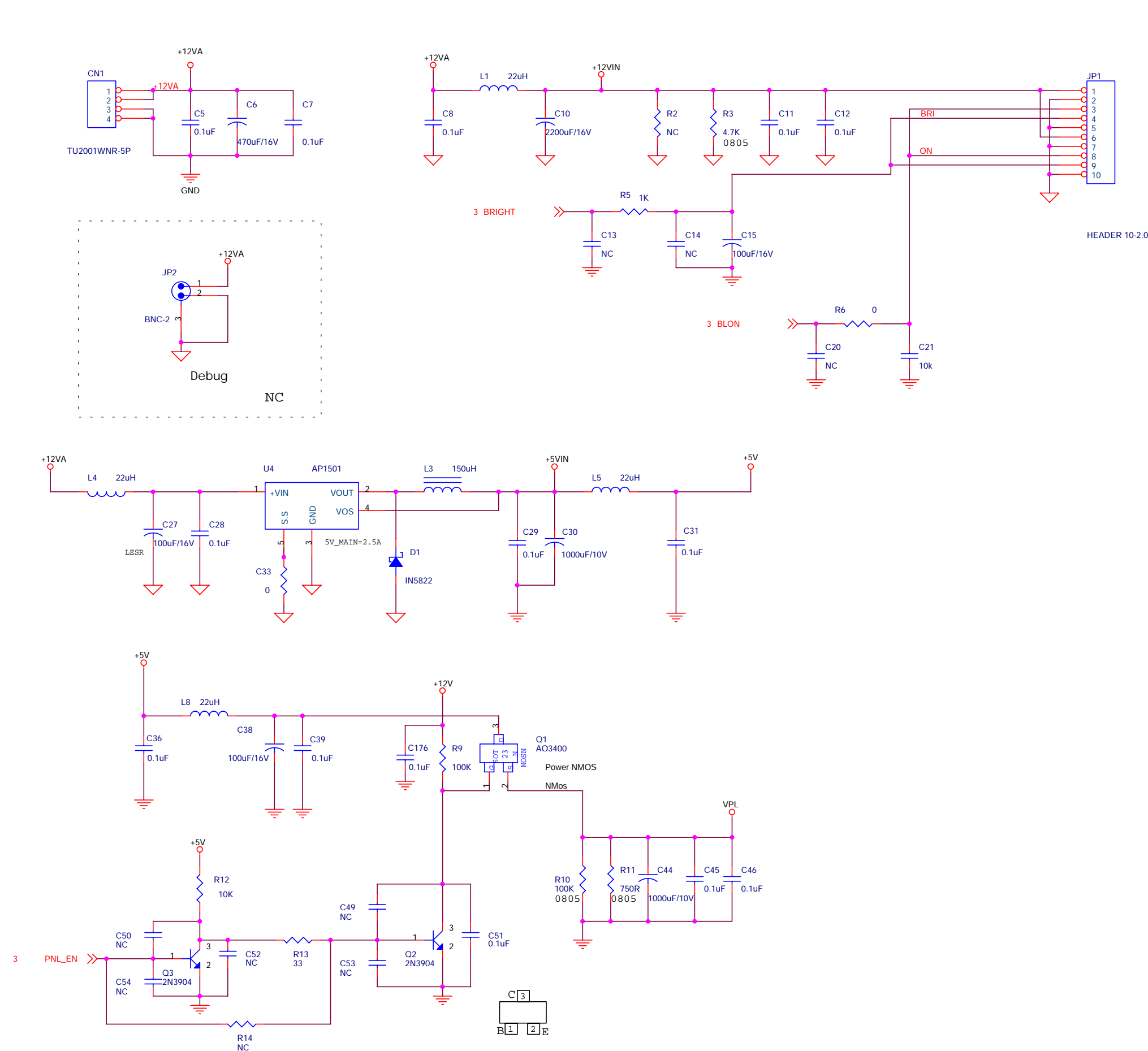


	CTRL_BD1.PCB	DATE: 91/ 12/ 11
	COMPONENTS	DRAWN: ICE



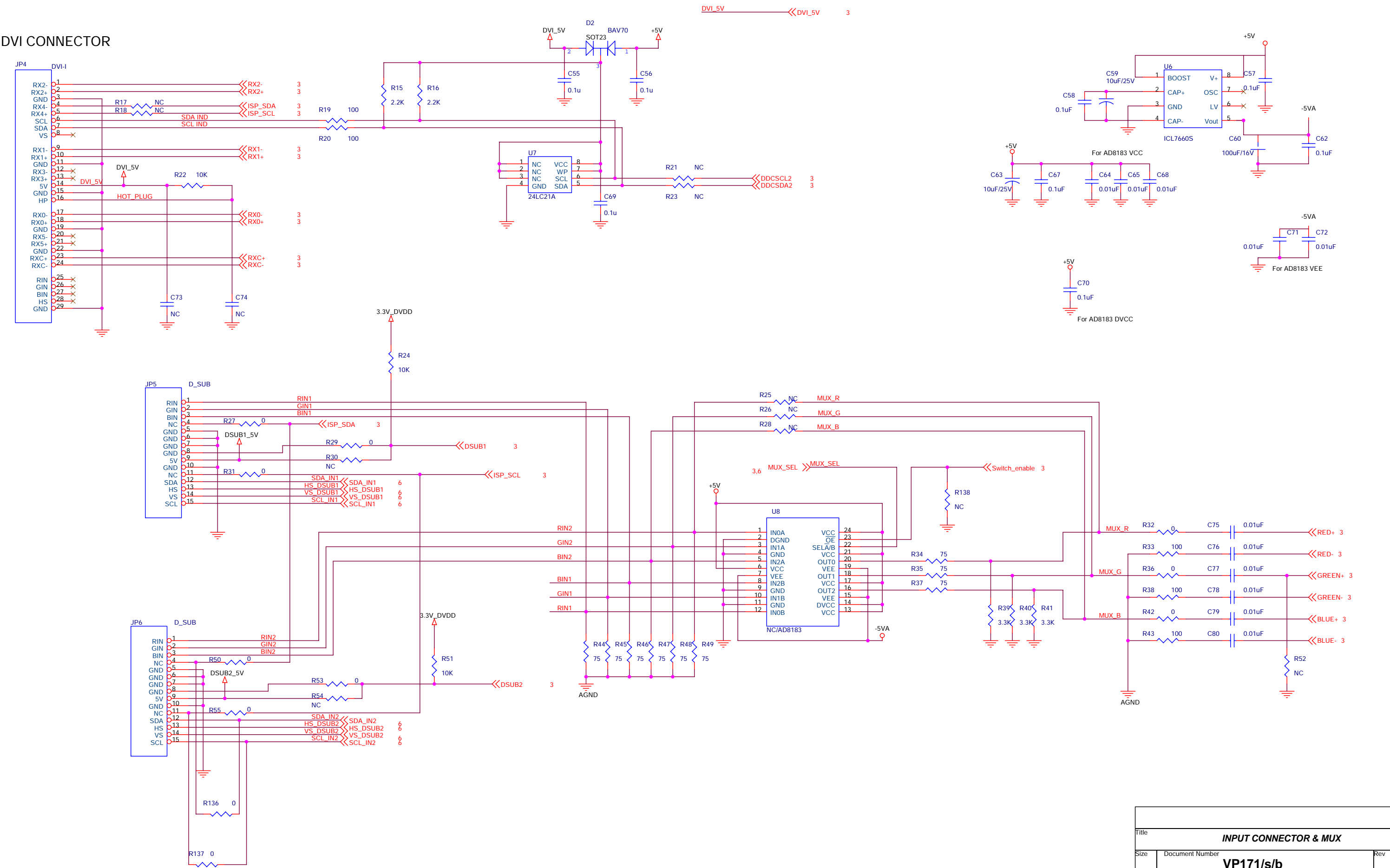
	CTRL_BD1.PCB	DATE: 91/ 12/ 11
	SOLDER SIDE	

11. Schematic Diagram

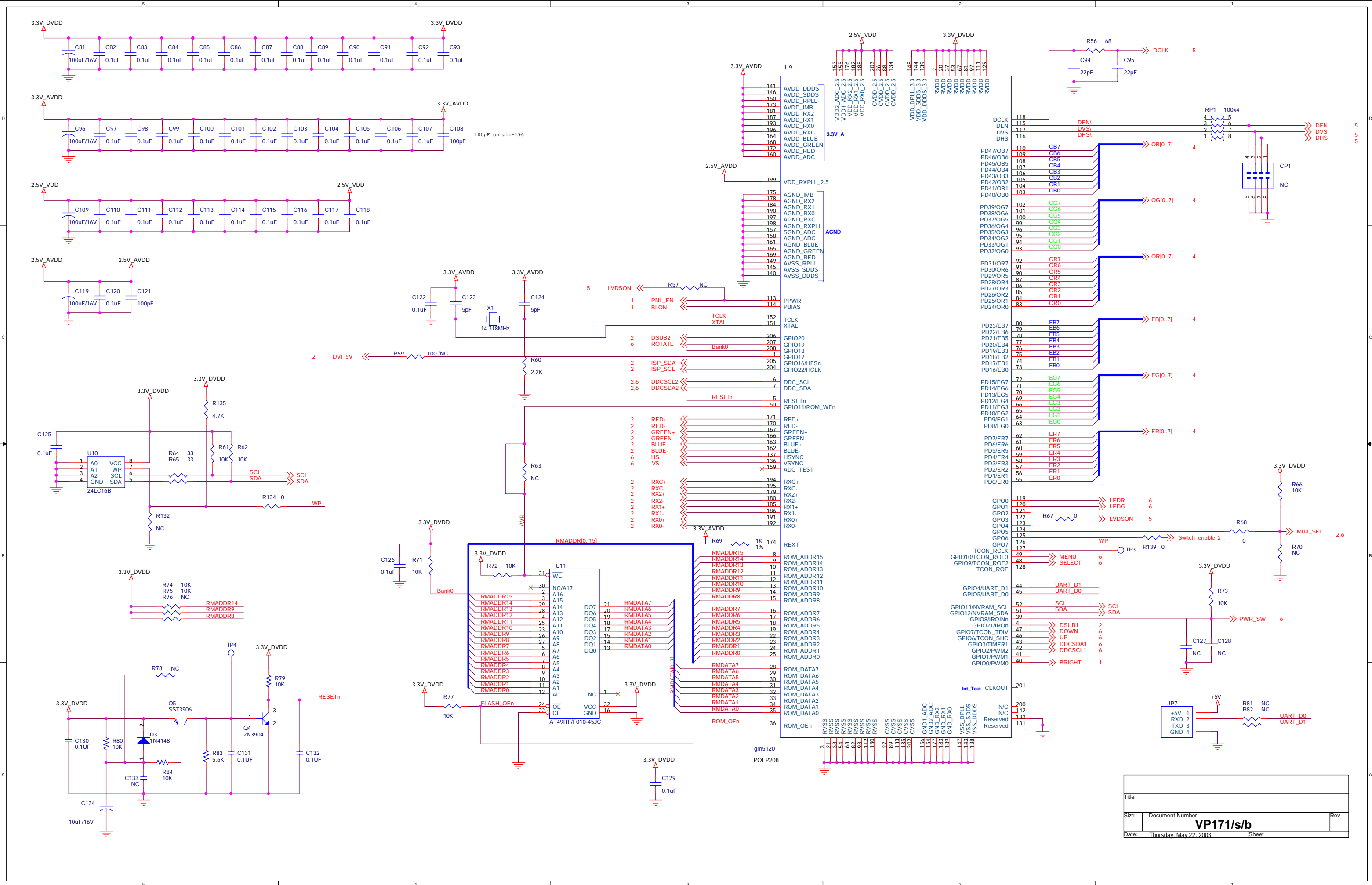


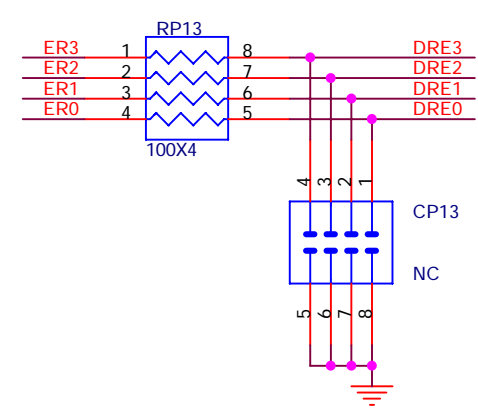
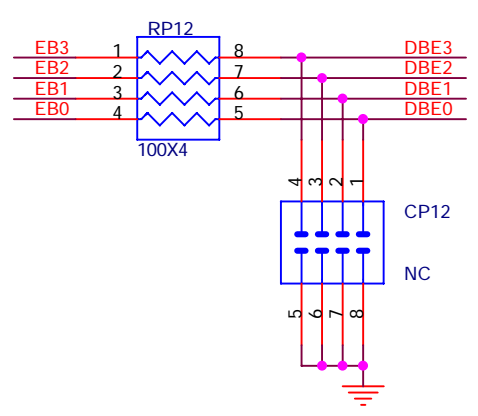
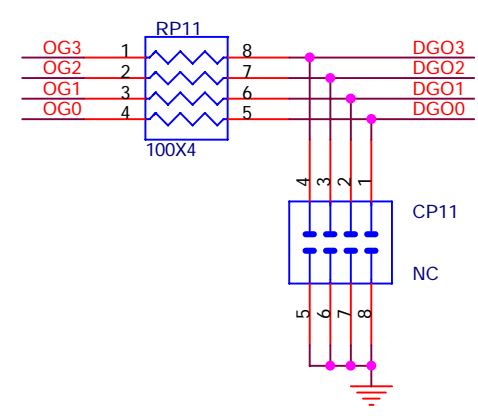
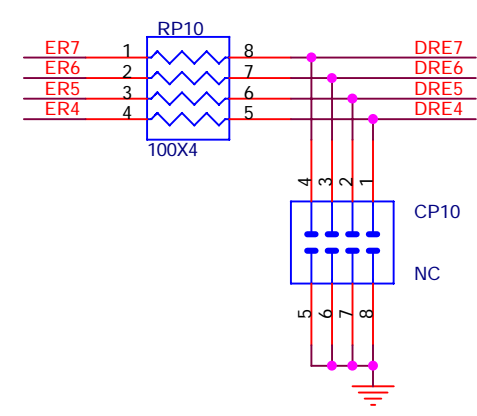
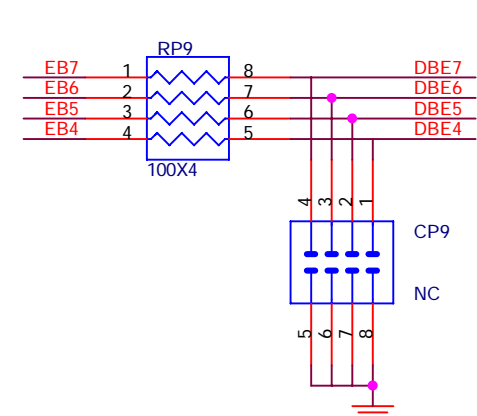
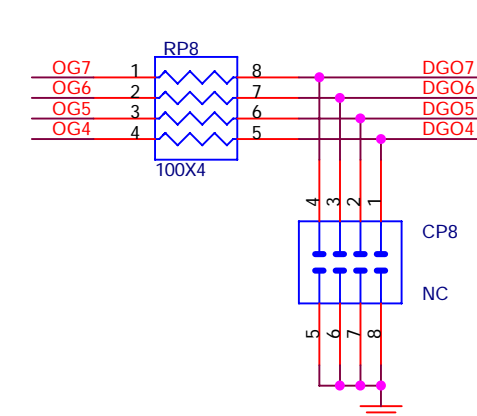
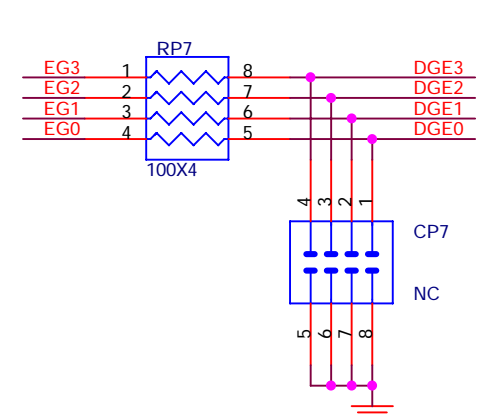
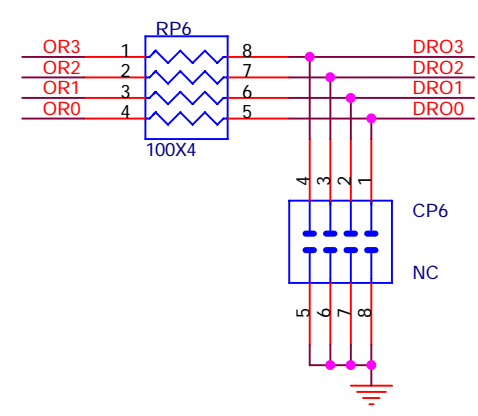
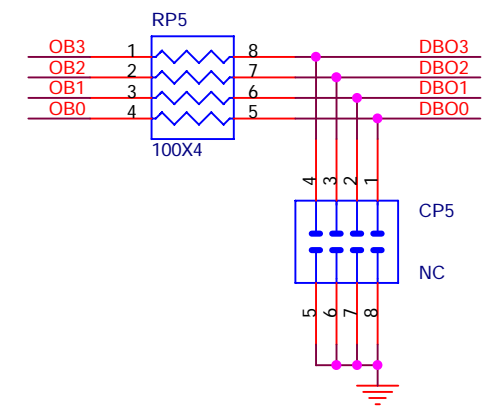
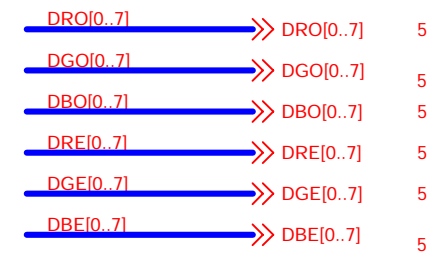
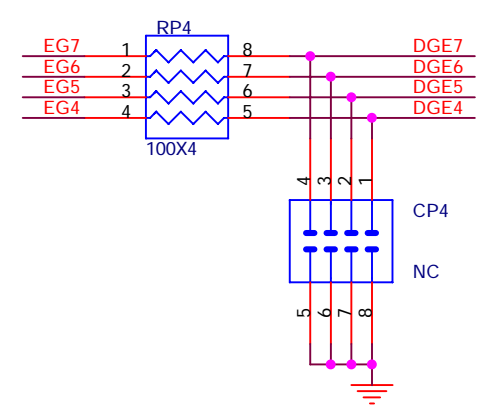
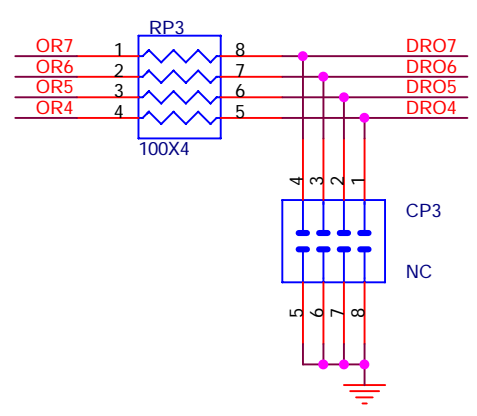
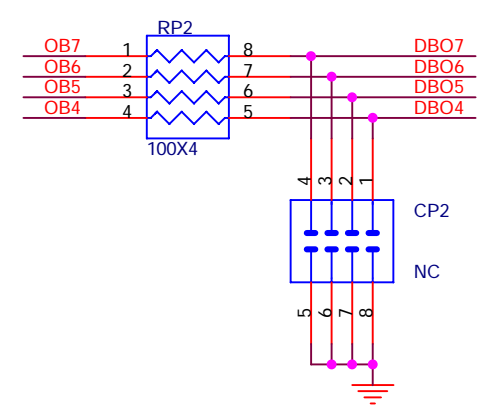
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DVI CONNECTOR

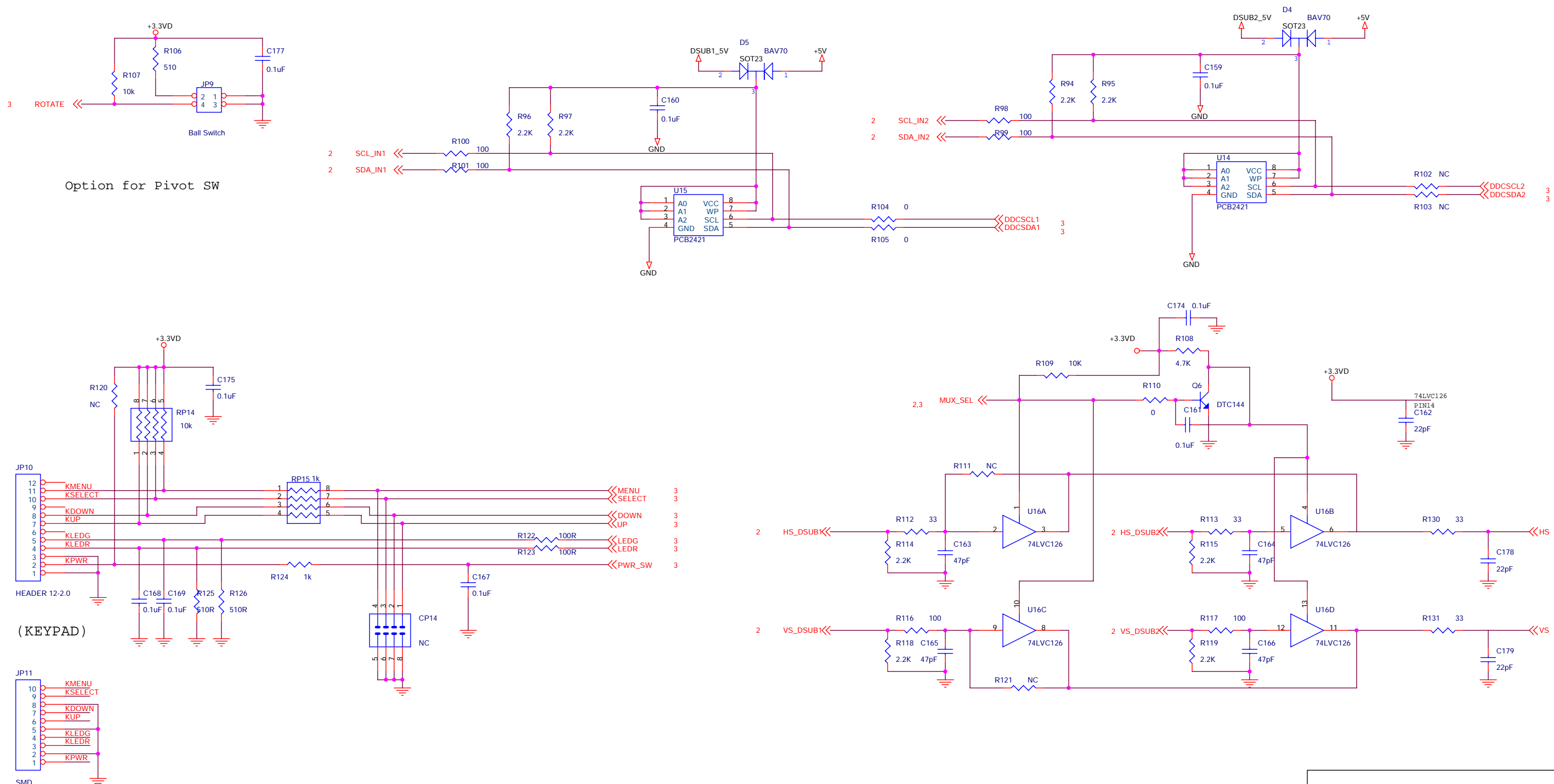


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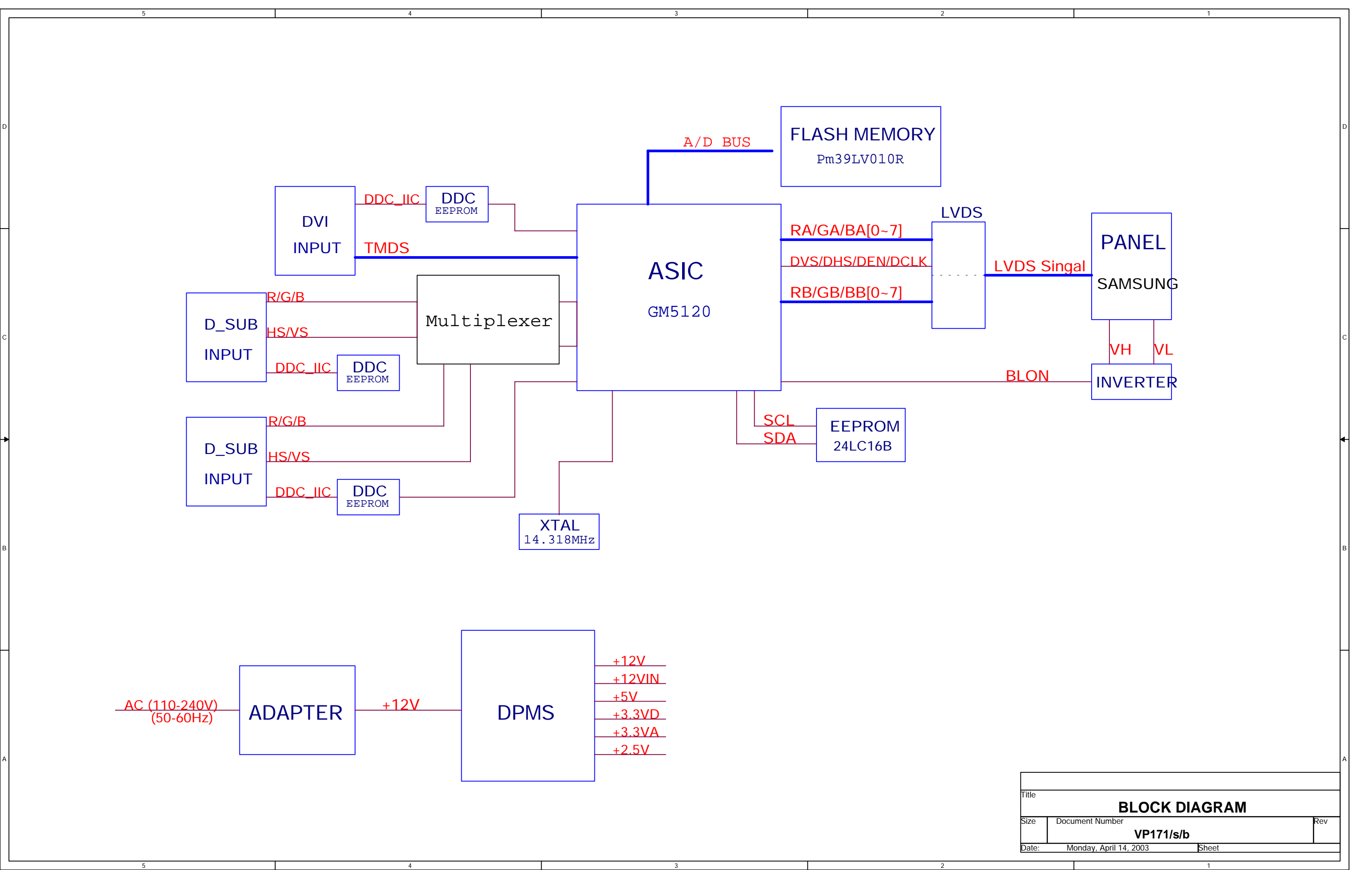




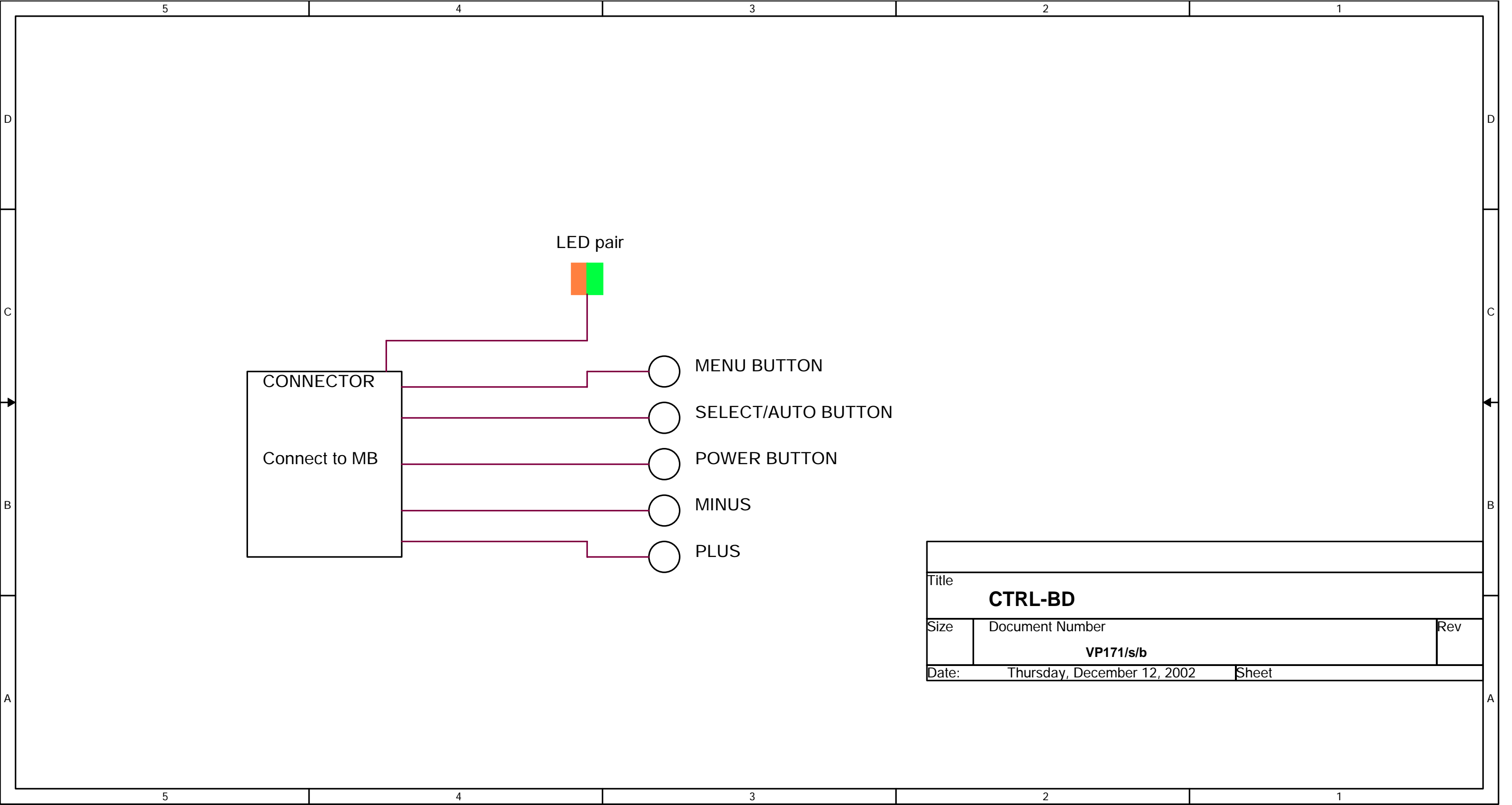
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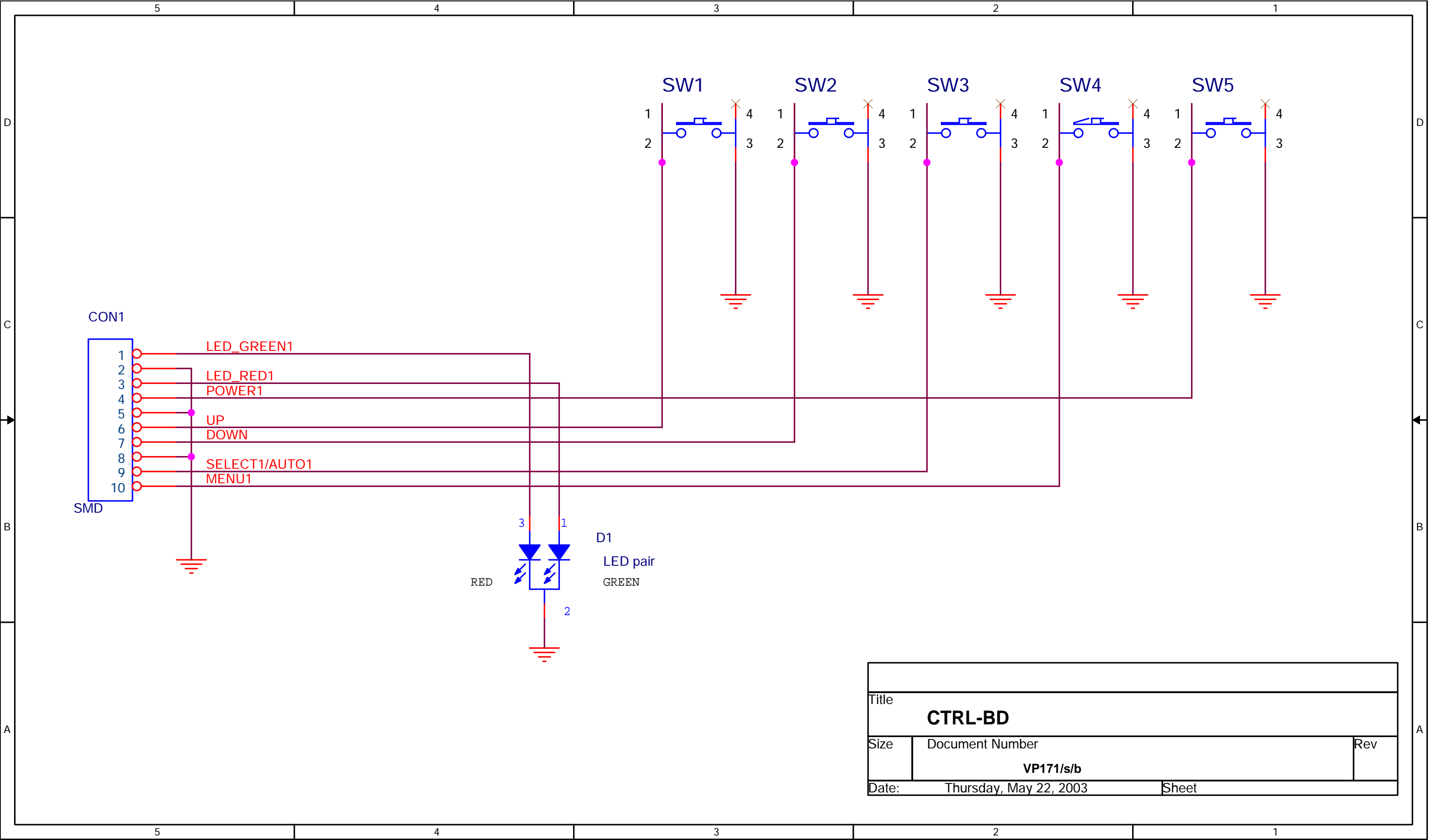


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BLOCK DIAGRAM		
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CTRL-BD		
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VP171b VIEWSONIC RECOMMENDED SPARE PARTS LIST

Item	ViewSonic P/N	Ref. P/N	Description	Location	Pcs
1	A-VC-0101-0333	42.59901.009	CABLE VGA 15P 1800mm 2-CORE COLOR:CS-VS08	VGA CABLE	1
2	A-VC-0101-0334	42.59902.014	CABLE DVI-D 1800mm COLOR:CS-VS08	DVI-D CABLE	1
3	M-WR-0828-0715	42.58401.001	W.A. 30P 100mm #28 PV875C	WIRE	1
4	M-WR-0828-0716	42.61202.001	W.A. 10/6P UL1007 #24 50mm VP191(INV)	INVERTER WIRE	1
5	M-WR-0828-0717	42.61203.001	W.A. 4P UL1007 #24 250mm VP191(POWER)	POWER WIRE	1
6	M-WR-0828-0718	42.61204.001	W.A. 4P UL1007 #18 VP191(SWT)	SITECH WIRE	1
7	M-WR-0828-0719	42.61205.001	W.A. 3P UL1007 #18 50mm VP191(INLET)	INLET WIRE	1
8	A-AD-0114-0185	44.61103.001	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"	POWER BOARD	1
9	B-SB-0221-0524	44.61101.001	PCBA INVERTER PLCD2417414G:EMAX	INVERTER BOARD	1
10	M-LCD-0826-0120	48.58301.001	TFT LCD 17.0" 1280*1024 AU M17EN05 V1	LCD PANEL	1
11	M-MS-0808-8750	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171	MYLAR	1
12	M-MS-0808-7800	35.61202.001	BIRD LOGO AL E015-004 "ViewSonic"	LOGO	1
13	M-MS-0808-7798	41.53615.001	EMI Tape (80560) 30*50mm	EMI TAPE	1
14	M-MS-0808-7799	41.54612.001	EMI Tape (80560) 25*30mm	EMI TAPE	6
15	PL-CL-0710-0033	51.61213.002	CLIP NYLON-VS08 VP191b	CLIP	3
16	M-MS-0808-7795	51.61214.001	WEAR PLATE (FRONT) VP191	WEAR PLATE	1
17	M-MS-0808-7796	51.61215.001	WEAR PLATE (REAR) VP191	WEAR PLATE	1
18	PL-PD-0714-0091	52.61201.001	RUBBER PAD 27d*2t VP191	RUBBER PAD	4
19	M-LB-0813-0784	35.61101.002	LABEL SPEC 120*50mm CS-VS08 VP171b	SPEC LABEL	1
21	M-LB-0813-0781	35.61203.001	LABEL BAR CODE 50*25mm VP191	BARCODE LABEL	1
22	M-MS-0808-8299	51.58711.002	NAMEPLATE ELLIPSE CS-VS08 ViewSonic	NAMEPLATE	1
23	C-BC-0302-0497	51.61102.002	REAR COVER PC+ABS-VS08 VP171b	REAR COVER	1
24	M-CV-0830-2427	51.61204.002	HINGE CAP-1 PC+ABS-VS08 VP191b	HINGE CAP-1	1
25	M-CV-0830-2428	51.61205.002	HINGE CAP-2 PC+ABS-VS08 VP191b	HINGE CAP-2	1
26	M-CV-0830-2429	51.61206.002	HINGE CAP-3 PC+ABS-VS08 VP191b	HINGE CAP-3	1
27	M-MS-0808-7823	51.61207.002	FRONT ARM PC+ABS-VS08 VP191b	FROM ARM	1
28	M-MS-0808-7824	51.61208.002	REAR ARM PC+ABS-VS08 VP191b	REAR ARM	1
29	M-CV-0830-2430	51.61209.002	BASE COVER PC+ABS-VS08 VP191b	BASE COVER	1
30	M-CV-0830-2432	75.61202.002	ASSY HINGE CAP PC+ABS-VS08 VP191b	HINGE CAP	1
31	C-FP-0301-0333	76.61101.002	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b	FRONT COVER	1
32	M-CV-0830-2426	51.61203.002	OVAL CAP PC+ABS-VS08 VP191b	OVAL CAP	1
33	M-CV-0830-2431	51.61212.002	HINGE CAP-4 PC+ABS-VS08	HINGE CAP	1
34	B-MB-0201-0759	80.61101.001	PCBA MAIN BD FOR VP171	MAIN BOARD	1
35	B-CB-0206-0158	80.61102.001	PCBA CTRL BD FOR VP171	CONTROL BOARD	1
36	A-CD-VP171B	36.61102.001	User Guide+CD,VP171b	User Guide	1
37	P-BX-0601-0802	55.61101.002	CARTON AB-18 465*265*430(h) VP171b	CARTON	1
38	P-FM-0602-0583	56.61101.001	CUSHION R EPS VP171	RIGHT CUSHION	1
39	P-FM-0602-0584	56.61102.001	CUSHION L EPS VP171	LEFT CUSHION	1

VIEWSONIC INDIVIDUAL PARTS OF VSA-M

Item	ViewSonic P/N	Ref. P/N	Description	Location	Pcs
1	A-PC-0106-0270	42.57207.001	SP-30+IS-14 1800±50mm;COLOR:CS-VS08;NA	POWER CORD	1
2	A-PC-0106-0271	42.50112.001	1830mm SP-023+IS14 CS-VS08 EUR	POWER CORD	1

VIEWSONIC INDIVIDUAL PARTS OF VSE-E

Item	ViewSonic P/N	Ref. P/N	Description	Location	Pcs
1	A-PC-0106-0270	42.57207.001	SP-30+IS-14 1800±50mm;COLOR:CS-VS08;NA	POWER CORD	1
2	A-PC-0106-0271	42.50112.001	1830mm SP-023+IS14 CS-VS08 EUR	POWER CORD	1

VIEWSONIC INDIVIDUAL PARTS OF VSCN-G

Item	ViewSonic P/N	Ref. P/N	Description	Location	Pcs
1	A-PC-0106-0187	42.50126.001	1.8M+0.1M COLOR CS-VS08 China	POWER CORD	1

VIEWSONIC INDIVIDUAL PARTS OF VSAU-A

Item	ViewSonic P/N	Ref. P/N	Description	Location	Pcs
1	A-PC-0106-0270	42.57207.001	SP-30+IS-14 1800±50mm;COLOR:CS-VS08;NA	POWER CORD	1
2	A-PC-0106-0271	42.50112.001	1830mm SP-023+IS14 CS-VS08 EUR	POWER CORD	1

VP171s VIEWSONIC RECOMMENDED SPARE PARTS LIST

CATEGORY	ViewSonic P/N	Ref. P/N	PART NAME	DESCRIPTION
CABLES	M-WR-0828-0715	42.58401.001	WIRE	W.A. 30P 100mm #28 PV875C
	A-VC-0101-0261	42.59901.003	VGA CABLE	CABLE VGA 15P 1800mm 2*25mm CORE
	A-VC-0101-0306	42.59901.008	VGA CABLE	CABLE VGA 15P 1800mm 2-CORE COLOR:CS-VS09
	A-VC-0101-0262	42.59902.012	DVI-D CABLE	CABLE DVI-D 1.8M 2-CORE MOLEX
	A-VC-0101-0315	42.59902.013	DVI-D CABLE	CABLE DVI-D 1800mm COLOR:CS-VS09
	M-WR-0828-0716	42.61202.001	INVERTER WIRE	W.A. 10/6P UL1007 #24 50mm VP191(INV)
	M-WR-0828-0717	42.61203.001	POWER WIRE	W.A. 4P UL1007 #24 250mm VP191(POWER)
	M-WR-0828-0718	42.61204.001	SITECH WIRE	W.A. 4P UL1007 #18 VP191(SWT)
	M-WR-0828-0719	42.61205.001	INLET WIRE	W.A. 3P UL1007 #18 50mm VP191(INLET)
	A-PC-0106-0186	42.50112.001	POWER CORD*	CABLE POWER CORD 1830mm SP30+IS14, EUR
	A-PC-0106-0190	42.50116.002	POWER CORD*	CABLE POWER CORD 1830mm (JAP) BLACK
	A-PC-0106-0187	42.50126.001	POWER CORD*	CABLE POWER CORD 1.8M+0.1M (CHINA)
	A-PC-0106-0189	42.58204.001	POWER CORD*	CABLE POWER CORD 1830mm PC TYPE, BLACK
	A-PC-0106-0256	42.50115.001	POWER CORD*	CABLE POWER CORD 1830mm SP30+IS14
	A-PC-0106-0241	42.50112.002	POWER CORD*	CABLE POWER CORD 1830mm SP-023+IS14, COLOR:CS-VS09, EUR
	A-PC-0106-0242	42.50116.005	POWER CORD*	CABLE POWER CORD 1830mm COLOR CS-VS09, JAP
	A-PC-0106-0243	42.50126.002	POWER CORD*	CABLE POWER CORD 1.8M+0.1M COLOR CS-VS09 (CHINA)
	A-PC-0106-0235	42.58204.002	POWER CORD*	CABLE POWER CORD 1830mm PC TYPE, COLOR CS-VS09
	A-PC-0106-0240	42.57207.002	POWER CORD*	CABLE POWER CORD SP-30+IS-14 1800±50mm; COLOR:CS-VS09; NA
POWER	A-AD-0114-0185	44.61103.001	POWER BOARD	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"
	A-AD-0114-0192	44.61103.003	POWER BOARD	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"
LCD	M-LCD-0826-0120	48.58301.001	LCD PANEL	TFT LCD 17.0" 1280*1024 AU M17EN05 V1
MISCELLANEOUS	M-MS-0808-8750	51.61103.001	MYLAR	MYLAR ADHESIVE t=0.3mm VP171
	M-MS-0808-7800	35.61202.001	LOGO	BIRD LOGO AL E015-004 "ViewSonic"
	M-MS-0808-7798	41.53615.001	EMI TAPE	EMI Tape (80560) 30*50mm
	M-MS-0808-7799	41.54612.001	EMI TAPE	EMI Tape (80560) 25*30mm
	PL-CL-0710-0032	51.61213.001	CLIP	CLIP NYLON-VS09 VP191
	PL-CL-0710-0033	51.61213.002	CLIP	CLIP NYLON-VS08 VP191b
	M-MS-0808-8753	51.61213.003	CLIP	CLIP NYLON-VS06 VP191S
	M-MS-0808-7795	51.61214.001	WEAR PLATE	WEAR PLATE (FRONT) VP191
	M-MS-0808-7796	51.61215.001	WEAR PLATE	WEAR PLATE (REAR) VP191
	PL-PD-0714-0091	52.61201.001	RUBBER PAD	RUBBER PAD 27d*2t VP191
	M-LB-0813-0782	35.61101.001	SPEC LABEL	LABEL SPEC 120*50mm CS-VS09 VP171
	M-LB-0813-0834	35.61101.003	SPEC LABEL	LABEL SPEC 120*50mm VP171S
	M-LB-0813-0781	35.61203.001	BARCODE LABEL	LABEL BAR CODE 50*25mm VP191
	M-MS-0808-8116	51.58711.001	NAMEPLATE	NAMEPLATE ELLIPSE ViewSonic
	M-MS-0808-8299	51.58711.002	NAMEPLATE	NAMEPLATE ELLIPSE CS-VS08 ViewSonic
	M-MS-0808-7801	51.58711.003	NAMEPLATE	NAMEPLATE ELLIPSE CS-VS09 ViewSonic
CASE/COVER/BACK ASSEMBLY	C-BC-0302-0495	51.61102.001	REAR COVER	REAR COVER PC+ABS-VS09 VP171
	C-BC-0302-0497	51.61102.002	REAR COVER	REAR COVER PC+ABS-VS08 VP171b
	C-BC-0302-0508	51.61102.003	REAR COVER	REAR COVER PC+ABS-VS06 VP171S
	M-CV-0830-2423	51.61206.001	HINGE CAP	HINGE CAP-3 PC+ABS-VS09 VP191
	M-CV-0830-2429	51.61206.002	HINGE CAP	HINGE CAP-3 PC+ABS-VS08 VP191b
	M-CV-0830-2453	51.61206.003	HINGE CAP	HINGE CAP-3 PC+ABS-VS06 VP191S
	M-MS-0808-7793	51.61207.001	FROM ARM	FRONT ARM PC+ABS-VS09 VP191
	M-MS-0808-7823	51.61207.002	FROM ARM	FRONT ARM PC+ABS-VS08 VP191b
	M-MS-0808-8752	51.61207.003	FROM ARM	FRONT ARM PC+ABS-VS06 VP191S
	M-MS-0808-7794	51.61208.001	REAR ARM	REAR ARM PC+ABS-VS09 VP191
	M-MS-0808-7824	51.61208.002	REAR ARM	REAR ARM PC+ABS-VS08 VP191b
	M-MS-0808-8752	51.61208.003	REAR ARM	REAR ARM PC+ABS-VS06 VP191S
	M-CV-0830-2425	51.61209.001	BASE COVER	BASE COVER PC+ABS-VS09 VP191
	M-CV-0830-2430	51.61209.002	BASE COVER	BASE COVER PC+ABS-VS08 VP191b
	M-CV-0830-2454	51.61209.003	BASE COVER	BASE COVER PC+ABS-VS06 VP191S
	M-CV-0830-2420	75.61202.001	HINGE CAP	ASSY HINGE CAP PC+ABS-VS09 VP191
	M-CV-0830-2432	75.61202.002	HINGE CAP	ASSY HINGE CAP PC+ABS-VS08 VP191b
	C-FP-0301-0331	76.61101.001	FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS09 VP171
	C-FP-0301-0333	76.61101.002	FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b
	C-FP-0301-0352	75.61102.003	FRONT COVER	ASSY FRONT COVER+CTRL BD CS-VS07A VP171S
	M-CV-0830-2419	51.61203.001	OVAL CAP	OVAL CAP PC+ABS-VS09 VP191
	M-CV-0830-2426	51.61203.002	OVAL CAP	OVAL CAP PC+ABS-VS08 VP191b
	M-CV-0830-2452	51.61203.003	OVAL CAP	OVAL CAP PC+ABS-VS06A VP191S
	M-CV-0830-2424	51.61212.001	HINGE CAP	HINGE CAP-4 PC+ABS-VS09
	M-CV-0830-2431	51.61212.002	HINGE CAP	HINGE CAP-4 PC+ABS-VS08 VP191b
BOARDS	B-MB-0201-0759	80.61101.001	MAIN BOARD	PCBA MAIN BD FOR VP171
	B-CB-0206-0158	80.61102.001	CONTROL BOARD	PCBA CTRL BD FOR VP171
	B-SB-0221-0524	44.61101.001	INVERTER BOARD	PCBA INVERTER PLCD2417414G;EMAX FOR 17" AUO
Manual	A-CD-VP171	36.61101.001	User Guide	User Guide+CD, VP171
	A-CD-VP171B	36.61102.001	User Guide	User Guide+CD, VP171b
	A-CD-VP171S	36.61101.002	User Guide	User Guide+CD, VP171S
PACKAGES	P-BX-0601-0800	55.61101.001	CARTON	CARTON AB-18 465*265*430(h) VP171
	P-BX-0601-0833	55.611.01002	CARTON	CARTON AB-18 465*265*430(h) VP171b
	P-BX-0601-0834	55.61101.003	CARTON	CARTON AB-18 465*265*430(h) VP171S
	P-FM-0602-0583	56.61101.001	RIGHT CUSHION	CUSHION R EPS VP171
	P-FM-0602-0584	56.61102.001	LEFT CUSHION	CUSHION L EPS VP171

VP171b Electrical Parts List

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1	M-LB-0813-0784	35.61101.002	LABEL SPEC 120*50mm VP171b	SPEC LABEL	1
2	M-MS-0808-8299	51.58711.002	NAMEPLATE ELLIPSE CS-VS08 ViewSonic	NAMEPLATE	1
3	M-CV-0830-2426	51.61203.002	OVAL CAP PC+ABS-VS08 VP191b	OVAL CAP	1
4	M-CV-0830-2431	51.61212.002	HINGE CAP-4 PC+ABS-VS08 VP191b	HINGE CAP-4	1
5	C-BC-0302-0392	75.61101.002	ASSY REAR COVER CS-VS08 VP171b	REAR COVER	1
6	C-BC-0302-0497	51.61102.002	REAR COVER PC+ABS-VS08 VP171b		1
7	C-FP-0301-0333	76.61101.002	ASSY FRONT COVER+CTRL BD CS-VS08 VP171b	FRONT COVER	1
8	C-FP-0301-0373	51.61101.002	FRONT COVER PC+ABS-VS08 VP171b		1
9	PL-BT-0706-0134	51.61210.002	SELECT BUTTON PC+ABS-VS08 VP191b		1
10	M-CV-0830-2429	51.61206.002	HINGE CAP-3 PC+ABS-VS08 VP191b	HINGE CAP-3	1
11	M-MS-0808-7823	51.61207.002	FRONT ARM PC+ABS-VS08 VP191b	FRONT ARM	1
12	M-MS-0808-7824	51.61208.002	REAR ARM PC+ABS-VS08 VP191b	REAR ARM	1
13	PL-CL-0710-0033	51.61213.002	CLIP NYLON-VS08 VP191b	CLIP	3
14	M-CV-0830-2432	75.61202.002	ASSY HINGE CAP PC+ABS-VS08 VP191b		1
15	M-CV-0830-2427	51.61204.002	HINGE CAP-1 PC+ABS-VS08 VP191b	HINGE CAP-1	1
16	M-CV-0830-2428	51.61205.002	HINGE CAP-2 PC+ABS-VS08 VP191b	HINGE CAP-2	1
17	C-BS-0303-0377	75.61204.002	ASSY BASE COVER CS-VS08 VP191b	BASE COVER	1
18	M-CV-0830-2430	51.61209.002	BASE COVER PC+ABS-VS08 VP191b		1
19	A-PC-0106-0272	42.50115.001	CABLE POWER CORD SP-30+IS-14 1800±50mm;NA	POWER CORD(NA)	1
20	A-PC-0106-0271	42.50112.001	CABLE POWER CORD SP-23+IS-14 1800±51mm;EU	POWER CORD(EUR)	1
21	A-CD-VP171B	36.61102.001	VP171b USER GUIDE+CD	QSG	1
22	A-VC-0101-0261	42.59901.003	CABLE VGA 15P 1800mm 2-CORE COLOR:CS-VS08	VGA CABLE	1
23	A-VC-0101-0262	42.59902.012	CABLE DVI-D 1800mm COLOR:CS-VS08	DVI CABLE	1
24	P-BX-0601-0802	55.61101.002	CARTON AB-18 490*265*440 VP171b	CARTON	1

VIEWSONIC INDIVIDUAL PARTS OF VSI-P

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1	A-PC-0106-0273	42.58204.001	CABLE POWER CORD 1830mm PC TYPE Black	POWER CORD	1

VIEWSONIC INDIVIDUAL PARTS OF VSAU-A

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1	A-PC-0106-0270	42.57207.001	CABLE POWER CORD SP-30+IS-14 1800±50mm;NA	POWER CORD(N/A)	1
2	A-PC-0106-0271	42.50112.001	CABLE POWER CORD SP-23+IS-14 1800±51mm;EU	POWER CORD(EUR)	1

VIEWSONIC INDIVIDUAL PARTS OF VSE-E

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1	A-PC-0106-0270	42.57207.001	CABLE POWER CORD SP-30+IS-14 1800±50mm;NA	POWER CORD(N/A)	1
2	A-PC-0106-0271	42.50112.001	CABLE POWER CORD SP-23+IS-14 1800±51mm;EU	POWER CORD(EUR)	1

VIEWSONIC INDIVIDUAL PARTS OF VSCN-G

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1	A-PC-0106-0187	42.50126.001	CABLE POWER CORD 1.8M+0.1M (CHINA)	POWER CORD	1
2	M-MS-0808-8795	36.58307.001	WARRANTY CARD, CHINESE	WARRANTY CARD	1
3	M-LB-0813-0737	36.58308.001	WARRANTY STICKER, CHINESE	WARRANTY STICKER	1
4	M-LB-0813-0739	36.58309.001	SHIPPING STICKER, CHINESE	SHIPPING STICKER	1
5	M-MS-0808-8794	51.61219.001	PE BAG FOR CARTON	PE BAG	1

VP171s Electrical Parts List

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
1		DC.61105.001	D.C. VP171s,AUO EN05		1
2	M-LB-0813-0736	35.58304.001	LABEL BARCODE 40*14mm		1
3	M-LB-0813-0834	35.61101.003	LABEL SPEC 120*50mm CS-VS06 VP171s		1
4	M-LB-0813-0781	35.61203.001	LABEL BAR CODE 50*25mm VP191		1
5	M-MS-0808-8116	51.58711.001	NAMEPLATE ELLIPSE CS-VS06 ViewSonic		1
6	M-CV-0830-2452	51.61203.003	OVAL CAP PC+ABS-VS06 VP191s		1
7	M-CV-0830-2455	51.61212.003	HINGE CAP-4 PC+ABS-VS06 VP191s		1
8		70.61101.005	ASSY DISPLAY AU-VS06 VP171s		1
9	M-MS-0808-7800	35.61202.001	BIRD LOGO AL E015-004 "ViewSonic"		1
10		35.61204.003	COSMETIC STRIP 180*10*0.3mm		1
11		39.61102.002	DDC RECORDER VP171B		1
12	M-MS-0808-7798	41.53615.001	EMI Tape (80560) 30*50mm		1
13	M-MS-0808-7799	41.54612.001	EMI Tape (80560) 25*30mm		6
14	M-WR-0828-0715	42.58401.001	W.A. 30P 100mm #28 PV875C		1
15	M-WR-0828-0716	42.61202.001	W.A. 10/6P UL1007 #24 50mm VP191(INV)		1
16	M-WR-0828-0717	42.61203.001	W.A. 4P UL1007 #24 250mm VP191(POWER)		1
17	M-WR-0828-0718	42.61204.001	W.A. 4P UL1007 #18 VP191(SWT)		1
18	M-WR-0828-0719	42.61205.001	W.A. 3P UL1007 #18 50mm VP191(INLET)		1
19	B-SB-0221-0524	44.61101.001	PCBA INVERTER PLCD2417414G;EMAX FOR 17" AUO		1
20	A-AD-0114-0192	44.61103.003	OPEN FRAME IN:100-240V OUT:12V/4.16A "LSE"		1
21	M-LCD-0826-0120	48.58301.001	TFT LCD 17.0" 1280*1024 AU M17EN05 V1		1
22	M-MS-0808-8239	51.00014.001	FILAMENT TAPE 3M NO.897 25mm*45M		1
23	M-MS-0808-8750	51.61103.001	MYLAR ADHESIVEt=0.3mm VP171		1
24		61.61101.001	LCD BRKT SECC 1.0t VP171		1
25		61.61102.001	SHIELDING PLATE-INV Tineplate 0.3t VP171		1
26		61.61202.001	SHIELDING BRKT-MB SECC 1.0t VP191		1
27	C-BC-0302-0511	75.61101.003	ASSY REAR COVER CS-VS06 VP171s		1
28	C-BC-0302-0508	51.61102.003	REAR COVER PC+ABS-VS06 VP171s		1
29		61.00042.001	LOCK BRKT+CAP SECC 0.8t		1
30	C-FP-0301-0352	76.61101.003	ASSY FRONT COVER+CTRL BD CS-VS06 VP171s		1
31	C-FP-0301-0357	51.61101.003	FRONT COVER PC+ABS-VS06 VP171s		1
32		51.61210.003	SELECT BUTTON PC+ABS-VS06 VP191s		1
33		51.61211.001	LED LENS PMMA VP191		1
34	B-CB-0206-0158	80.61102.001	PCBA CTRL BD FOR VP171		1
35		00.61102.001	BARE PCB L:2 CTRL BD VP171		1
36		09.00000.042	DIODE LED 19-22SOVGC/TR8 "EVERLIGHT"		1
37		35.00016.001	LABEL BARCODE 6*38mm BLANK		1
38		42.61101.001	W.A. FFC 10P 32cm PCB TO CTRL VP171&VP191		1
39		43.58423.301	SWITCH PUSH STS-07-A DC15V 20mA "HCH"		5
40	B-MB-0201-0759	80.61101.001	PCBA MAIN BD FOR VP171		1
41		00.61101.001	BARE PCB L:4 MAIN BD FOR VP171		1
42		01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	C33,R104,R105,R110,R127,R129,R132,R133,R136,R137,R27,R29,R31,R32,R36,R42,R50, R53,R55,R6,R67,R68,R92	23
43		01.10136.501	RES RP 100 5% 1/16W #0603	R100,R101,R122,R123,R19,R20,R33,R38,R43,R59,R98,R99	12
44		01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	RP1,RP10,RP11,RP12,RP13,RP2,RP3,RP4,RP5,RP6,RP7,RP8,RP9	13
45		01.10216.501	RES RP 1K 1% 1/16W CHIP #0603	R69	1
46		01.10236.501	RES RP 1K 5% 1/16W x4 V8V 8P SMD "PANAS	RP15	1
47		01.10236.502	RES RP 1K 5% 1/16W #0603;"TA-I TECHNOLOGY"	R124,R5	2
48		01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	RP14	1
49		01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	R107,R109,R12,R22,R24,R51,R61,R62,R66,R71,R72,R73,R74,R75,R77,R79,R80,R84,R86	19
50		01.10436.501	RES RP 100K 5% 1/16W CHIP #0603	R9	1
51		01.10439.501	RES RP 100K 5% 1/10W CHIP #0805	R10	1
52		01.10636.501	RES RP 10M 5% 1/16W CHIP #0603	R52	1
53		01.20116.501	RES RP 200 1% 1/16W CHIP #0603	R7	1
54		01.22236.501	RES RP 2.2K 5% 1/16W CHIP #0603	R114,R115,R118,R119,R60	5
55		01.30116.501	RES RP 330 1% 1/16W CHIP #0603	R1,R4,R8	3
56		01.33036.502	RES RP 33 5% 1/16W CHIP #0603;"TA-I TECHNOL	R112,R113,R116,R117,R13,R130,R131,R64,R65	9
57		01.33236.501	RES RP 3.3K 5% 1/16W CHIP #0603;"TA-I TECHN	R108,R39,R40,R41	4

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
58		01.47236.501	RES RP 4.7K 5% 1/16W CHIP #0603	R15,R16,R93,R94,R95,R96,R97	7
59		01.47239.501	RES RP 4.7K 5% 1/10W CHIP #0805	R3	1
60		01.51136.501	RES RP 510 5% 1/16W CHIP #0603;"TA-I TECHNO	R106,R125,R126	3
61		01.56236.501	RES RP 5.6K 5% 1/16W CHIP #0603	R83	1
62		01.68036.501	RES RP 68 5% 1/16W CHIP #0603	R56	1
63		01.75016.501	RES RP 75 1% 1/16W CHIP #0603;"TA-I TECHNOL	9	9
64		01.75139.501	RES RP 750 5% 1/10W CHIP #0805	R11	1
65		02.10075.402	CAP CE 10u 25V 20% 5*11mm 105 DEGREE C (PZ)	C134,C137,C59,C63	4
66		02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	C1,C109,C119,C15,C150,C16,C19,C22,C25,C38,C4,C60,C81,C96	14
67		02.10273.404	CAP CE 1000u 10V 20% 10*16mm 105°C (HF) LOW	C30,C44	2
68		02.10547.102	CAP CC 100pF 5% 50V NPO #0603	C108,C121,C135,C136,C157,C58	6
69		02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	C75,C76,C77,C78,C79,C80	6
70		02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	C100,C101,C102,C103,C104,C105,C106,C107,C11,C110,C111,C112,C113,C114,C115,C116,C117,C118,C12,C120,C122,C125,C126,C129,C130,C131,C132,C138,C139,C140,C141,C142,C143,C144,C145,C146,C147,C148,C149,C151,C152,C153,C154,C155,C156,C159,C160,C161,C167,C168,C169,C17,C170,C173,C174,C175,C176,C177,C18,C2,C23,C24,C28,C29,C3,C31,C34,C35,C36,C39,C40,C41,C42,C43,C45,C46,C47,C48,C5,C51,C55,C56,C57,C58,C61,C62,C64,C65,C66,C67,C68,C69,C7,C70,C71,C72,C8,C82,C83,C84,C85,C86,C87,C88,C89,C90,C91,C92,C93,C97,C98,C99	112
71		02.12174.401	CAP CE 120uF 20% 16V LOW-ESR TYPE RC=405mA	C27	1
72		02.22274.402	CAP CE 2200u 16V 20% 12.5*25mm 105° 4Khrs	C10	1
73		02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	C162,C163,C164,C165,C166,C178,C179,C94,C95	9
74		02.47174.404	CAP CE 470u 20% 16V 8*11.5 105 Degree RADIA	C6	1
75		02.50347.101	CAP CC 5pF 5% 50V NPO X7R #0603	C123,C124	2
76		03.00008.401	INDCTR BEAD MLB-321611-0120P-N1 "MAG LAYERS	L10,L12	2
77		03.00072.401	EMI Bead MLB-201209-0300A-N1	L11,L6,L9	3
78		03.15100.301	INDCTR CHOKE 150uH 20% 3A DIP A0060D1 "ARON	L3	1
79		03.22040.301	INDCTR CHOKE COIL 22u 10% 3A DIP A00601C2 "	L1,L4,L5,L8	4
80		07.14318.001	XTAL 14.318MHz HC-49S HALF SIZE "鴻星"	X1	1
81		08.2N390.402	TRNSTR NPN GENERAL MMBT3904LT1 SOT-23 "MO	Q2,Q3,Q4	3
82		08.2N390.603	TRANSTR PNP GENERAL PURPOSE 2N3906 SST3 "RO	Q5	1
83		08.AO340.001	MOSFET N-CHANNEL AO3400 SOT-23 "ALPHA & OME	Q1	1
84		08.DTC14.401	TRNSTR NPN DTC144W(SMT3) 100nA ;"ROHM"	Q6	1
85		09.1N414.802	DIODE RLS4148 / PMLL4148L SMD "PHILIPS"	D3	1
86		09.1N582.201	DIODE IN5822 SCHOTTKY RECTIFIER DO201AD	D1	1
87		09.DAN202.K1	DIODE ARRAY DAN202K SMD; "ROHM"	D2,D4,D5	3
88		11.044M2.304	CNNT M 4P 2.5mm RT/LEAD TU3001WNR-4P "TYU"	CN1	1
89		11.101F4.701	CNNT 10P FPC 1.0mm RT/SMD FPC1S10B11R03 "ME	JP11	1
90		11.102M2.303	CNNT 10P 2.0mm TU2001WNR-10 RT/DIP;"TYU"	JP1	1
91		11.155F2.203	CNNT D-SUB 15P RT/LEAD BLUE PC99 VGA	JP5,JP6	2
92		11.259F2.203	CNNT DVI-D 25P RT/LEAD AMPHENOL G12A2031	JP4	1
93		11.302M2.301	CNNT M 30P 2mm RT/LEAD P220-2*15-R ;"LCU"	JP8	1
94	E-IC-0401-2771	20.24LC2.1A1	IC CMOS 24LC21A EEPROM 128*8 BIT 8SOIC	U14,U15,U7	3
95		20.74LVC.121	IC CMOS 74LVC126A BUS BUFFER GATE "TI""TSSO	U16	1
96		20.AD818.301	IC AD8183 Triple 2:1 Multiplexers,380MHZ 24	U8	1
97		20.AIC10.842	IC AIC1084;(TO252) 5A ADJUSTABLE REGULATOR	U1,U3	2
98		20.AP150.101	IC AP1501 5V SWITCHING REGULATOR SMD 150KHz	U4	1
99		20.GM512.001	IC GM5120 Dual-Interface SXGA 208P PQFP "GE	U9	1
100		20.ICL76.601	IC CMOS VOLTAGE CONVERTER ICL7660S 8SOIC ;	U6	1
101		20.THC63.LV1	IC THC63LVDM83A 85MHZ LVDS TSSOP	U12,U13	2
102		20.XC620.1P1	IC LDO REG. XC6201P332PR SOT89;"TOREX"	U2	1
103	E-IC-0401-2772	21.24LC1.601	IC EEPROM 24LC16B/SN M 2K*8 BIT IIC BUS 8SO	U10	1
104		22.61101.001	PROGRAMED IC VP171 "GM5120"		1
105		21.Pm39L.V01	IC Pm39LV010R CMOS Flash memory 1Megabit(12	U11	1
106		39.61101.001	FW BIOS SOURCE CODE VP171 "GM5120"		1
107		35.00017.001	LABEL BIOS 13*11mm BLANK		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
108		35.00018.001	LABEL BARCODE 13*26.5mm BLANK		2
109		75.55104.001	ASSY BALL SWITCH TFT5010	JP9	1
110	M-MS-0808-6287	85.005AG.075	SCREW HEX I/O #4-40*H5*L7.5 Ni NYLOK		6
111		85.1C124.060	SCREW PAN MECH W/T M4*6 Ni		1
112	M-SCW-0824-0651	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni		10
113		85.1F123.080	SCREW PAN MECH W/SF M3*8 Ni		4
114		85.4A323.040	SCREW FLATE MECH M3*4 BLACK		3
115		85.AA123.030	SCREW PAN TAPPING M3*3 Ni		10
116		85.ZA123.060	SCREW M3*6		4
117	C-BS-0303-0372	70.61202.003	ASSY STAND CS-VS06 VP191S		1
118	M-CV-0830-2453	51.61206.003	HINGE CAP-3 PC+ABS-VS06 VP191s		1
119	M-MS-0808-8751	51.61207.003	FRONT ARM PC+ABS-VS06 VP191s		1
120	M-MS-0808-8752	51.61208.003	REAR ARM PC+ABS-VS06 VP191s		1
121	M-MS-0808-8753	51.61213.003	CLIP NYLON-VS08 VP191s		3
122	PL-PD-0714-0091	52.61201.001	RUBBER PAD 27d*2t VP191		5
123		61.61204.001	BASE PLATE SPHC 3.0t Zn		1
124	M-MS-0808-8756	61.61103.001	HINGE VP171		1
125	M-CV-0830-2457	75.61202.003	ASSY HINGE CAP PC+ABS-VS06 VP191s		1
126		51.61204.003	HINGE CAP-1 PC+ABS-VS06 VP191s		1
127		51.61205.003	HINGE CAP-2 PC+ABS-VS06 VP191s		1
128	M-CV-0830-2456	75.61204.003	ASSY BASE COVER CS-VS06 VP191s		1
129	M-MS-0808-7795	51.61214.001	WEAR PLATE (FRONT) VP191		1
130	M-MS-0808-7796	51.61215.001	WEAR PLATE (REAR) VP191		1
131		85.4A123.080	SCREW FLAT MECH M3*8 Ni		1
132		85.4A323.040	SCREW FLATE MECH M3*4 BLACK		4
133		85.4A524.080	SCREW FLAT MECH W/O M4*8 NYLOK		4
134		85.5A124.080	SCREW BINDING MECH M4*8 Ni		4
135		85.UA123.080	DOUBLE THREADS SCREW PAN TAP M3*8 Ni		4
136		85.YA323.080	SCREW FLAT TAP M3*8 BLACK		3
137		DP.61105.00A	D.P. CS-VS06 VP171s,USA		1
138	A-PC-0106-0186	42.50112.001	CABLE POWER CORD 1830mm SP23+IS14		1
139	A-PC-0106-0256	42.50115.001	CABLE POWER CORD 1830mm SP30+IS14		1
140		51.00069.001	PACKING STRAP 12mm*2000mm*0.6		0.02
141		51.00070.001	PE STRETCH FILM 500mm*1500mm*0.02mm		0.03
142		51.00080.001	3 INCH TRANSPARENT TPE		0.02
143		55.55103.001	CORNER BOARD 40*40*5*1050mm		0.06
144		55.57202.001	CORNER BOARD 40*40*5*960mm		0.06
145		55.57503.001	CORNER BOARD 40*40*5*1700mm		0.13
146		58.61101.001	WOOD PALLET 1140*970*130mm		0.03
147		70.611DP.005	COMMON PACKAGE CS-VS06 VP171s		1
148	M-LB-0813-0706	35.58203.001	LABEL CARTON 76*76mm		1
149	A-CD-VP171S	36.61102.002	VP171s USER GUIDE+CD		1
150	A-VC-0101-0261	42.59901.003	CABLE VGA 15P 1800mm 2-CORE		1
151	A-VC-0101-0262	42.59902.012	CABLE DVI-D 1800mm		1
152		51.00081.004	PE BAG 540*750*0.07mm		1
153		51.58314.001	LCD PROTECT FILM 355*290*0.1mm		1
154	P-BX-0601-0834	55.61101.003	CARTON AB-18 465*265*430(h) VP171s		1
155	P-FM-0602-0583	56.61101.001	CUSHION R EPS VP171		1
156	P-FM-0602-0584	56.61102.001	CUSHION L EPS VP171		1

Reader's Response

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content after reading VP171/s/b Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Introduction				
2. Mechanical Construction				
3. Procedure of Disassembly				
4. Troubleshooting Procedure				
5. Function Test & Alignment Procedure				
6. Firmware Upgrade Procedure				
7. DDC Key-in Procedure				
8. Packing for Shipping				
9. Appendix				
10. PCB Layout				

B. Are you satisfied with the VP171/s/b service manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinion or suggestion about this service manual?

Reader's basic data:

Name:		Title:	
Company:			
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After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-444-8654. You may also e-mail any suggestions to the Director of Quality Assurance (marc.maupin@viewsonic.com)