



液晶显示器

底板: LS23MYZ

LS23MYY

型号: 2343BW

2343BWX

2343NW

2343NWX

维修

手册

薄膜液晶显示器



2233NW/2233BW/2233GW

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GSPN (全球维修合作网络)

国家	网站
北美	service.samsungportal.com
拉丁美洲	latin.samsungportal.com
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欧洲	europa.samsungportal.com
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P/N: BN82-00480A-01

2. Product specifications

2-1. Feature & Specifications

Model		2343BW / 2343BWX / 2343NW / 2343NWX
Feature		
▶ Panel Specifications: 300 cd/m2, 5 ms, CR 1000:1, 170/160 (CR>10) ▶ DPMS : <1W ▶ TCO'03 (Non Glossy Model) ▶ Power off 0.3W ▶ Windows Vista authentication ▶ DVI with HDCP (2343BW) ▶ Picture;a screen size desire ▶ Supported Color Effect: Black and white/Sepia/Aqua/Green		
Specifications		
Item		Description
LCD Panel		TFT-LCD panel, RGB vertical stripe, normally white transmissive, 23" Wide viewable 0.249(H)mm x 0.249(V)mm pixel pitch
Scanning Frequency		Horizontal : 30 kHz ~ 75 kHz (Automatic) Vertical : 56 Hz ~ 61 Hz
Display Colors		16.7 Million colors
Maximum resolution		Horizontal: 2048 Pixels Vertical: 1152 Pixels
Input Signal		Analog / DVI-Digital with HDCP
Input Sync Signal		Seperate H/V sync, Composite H/V, Sync-on-Green Level: TTL level
Maximum Pixel Clock rate		158.1MHz
Active Display (Horizontal/Vertical)		509.952(H) X 286.848(V)
AC power voltage & Frequency		AC 110V~130V, 60Hz & AC, 200V~240V 50Hz
Power Consumption		50 W
Dimensions Set (W x D x H)	SIMPLE STAND	544.6 x 72.9 x 323.1 mm (Without Stand) 544.6 x 227.5 x 408.8 mm (With Stand)
	HAS STAND	544.6 x 67.0 x 323.1 mm (Without Stand) 544.6 x 250.0 x 408.8 mm (With Stand)
Weight (Set/Package)	SIMPLE STAND	Set : 4.5 kg (Without Stand), 5.4 kg (With Stand) / Package : 6.9 Kg
	HAS STAND	Set : 4.4 kg (Without Stand), 7.3 kg (With Stand) / Package : 9.6 Kg
Environmental Considerations		Operating Temperature: 10°C ~ 50°C(50°F ~ 122°F) Operating Humidity : 10% ~ 90% Operating Temperature: -20°C ~ 45°C(-4°F ~ 113°F) Operating Humidity: 5% ~ 90%
Note: Designs and specifications are subject to change without prior notice.		

2-2. Spec Comparison to the Old Models

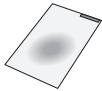
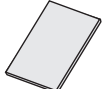
Model	Mckinley (2343BW / 2343BWX / 2343NW / 2343NWX)	Mendel (206BW)
Design		
Resolution	2048 x 1152	1680x1050
Input	Analog / DVI Digital with HDCP	Analog / Digital with HDCP
Response Time	5ms	5ms(G to G)
Viewing Angle	170/160(CR>10)	160/160(CR>10)
Brightness	300cd/m²	300cd/m²
Contrast	20000:1 (DCR)	3000:1
MagicBright	7 step	7 step
Feature	Magic Color Color Effect Image Size Magic Bright3 Magic Tune (Premium)	Magic Color Magic Bright3 Magic Tune (Premium)

*Color Effect

- Grey scale: Images are displayed in a grey tone on the screen.
- Green: Images are displayed in a green tone on the screen.
- Aqua: Images are displayed in a blue tone on the screen.
- Sepia: Images are displayed in a brown tone on the screen.

Image Size : If the resolution is not wide resolution, this option allows the screen size to be selected as normal or wide.

2-3. Accessories

Product	Description	Code. No	Remark
	Quick Setup Guide	BH68-00907A	Samsung Electronics Service center
	Warranty Card (Not available in all locations)	BH68-00633B	
	User's Guide, Monitor Driver, Natural Color Pro Software	BN59-00716A	
	D-Sub(15 Pin) Cable	BN39-00244G	
	Power Cord	3903-000082	

2-4. Accessories (Sold separately)

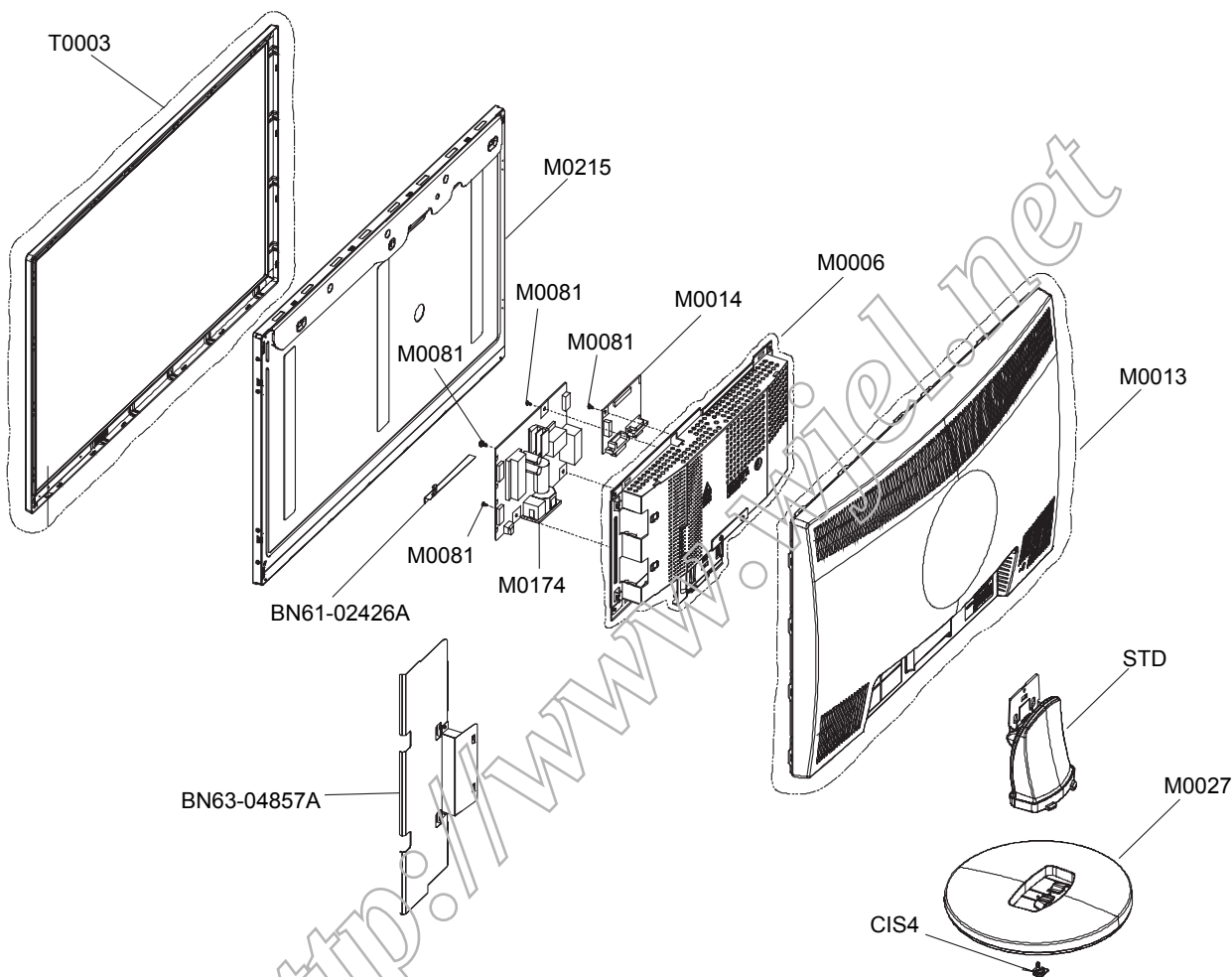
Product	Description	Code. No	Remark
	DVI Cable	BN39-00246K	Samsung Electronics Service center

Memo

<http://www.wjel.net>

5. Exploded View & Part List

5-1. LS23MYZKBB/XSF Exploded View - (2343BW)



5-1-1. LS23MYZKBB/XSF - Parts List (2343BW)

Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5)	1	S.N.A	
M0006	BN96-07245F	ASSY SHIELD P-COVER;LS24MY,SECC T0.8,SIM	1	S.N.A	
M0013	BN96-08376B	ASSY COVER P-REAR;LS23MY,,HIPS,HB,BK23,S	1	S.A	
M0014	BN94-02053T	ASSY PCB MAIN-STZ,W/W;LS23MYZ*	1	S.A	
M0027	BN96-08274A	ASSY STAND P-BASE;LS24MY,ABS HB BK26	1	S.A	
M0081	6003-001439	SCREW-TAPTITE;BH,+, -,S,M4,L8,ZPC(WHT),SW	1	S.N.A	
M0081	6003-000282	SCREW-TAPTITE;BH,+, -,B,M3,L8,ZPC(BLK),SW	6	S.N.A	
M0174	BN44-00247A	IP BOARD;FSP050-2PI05,Mckinley 23",0.7~2	1	S.A	
M0215	BN07-00554A	LCD-PANEL;LTM230TT01-V	1	S.A	
STD	BN96-08273B	ASSY STAND P-BODY;LS24MY,HIPS HB,BK26,SM	1	S.A	
T0003	BN96-08375A	ASSY COVER P-FRONT;2343BW,,ABS,HB,BK23,	1	S.A	
	BN61-02426A	BRACKET-SHIELD;S/M 203B,SPTE,T0.3	1	S.N.A	
	BN63-04857A	SHIELD-LAMP;2343BW,SPTE,T0.3	1	S.N.A	

5-2. LS23MYZKBB/XSF - Parts List

Service Bom (SA: SERVICE AVAILABLE, SNA: SERVICE NOT AVAILABLE)

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
		LS23MYZKBB/XSF	2343BW,QXA1/S23B6-LMY,23,LCD-MO,CHINA			
0.1	M0001	BN90-01778A	ASSY COVER FRONT;LS23MY (2343BW)	1	S.N.A	
..2	T0003	BN96-08375A	ASSY COVER P-FRONT;2343BW,,ABS,HB,BK23,	1	S.A	
...3	M0112	BN63-04855A	COVER-FRONT;2343BW,ABS,2.0,HB,BK23	1	S.N.A	
...3	M0130	BN67-00209A	LENS LED;Mckinley,PC CLEAR,TP15(TP-1020)	1	S.N.A	
...3	M0020	BN96-08193B	ASSY BOARD P;Mckinley,Function Assy,With	1	S.A	
....4	M2893	BN39-01007A	LEAD CONNECTOR;Mckinley,UL1571#30,5 to 5	1	S.A	
....4		BN94-02053S	ASSY PCB MAIN-F/PCB,BN96-08193;LS24MYK*	1	S.N.A	
.....5	CN906	3711-006471	CONNECTOR-HEADER;BOX,5P,1R,1mm,SMD-A,AU,	1	S.N.A	
.....5	T0174	BN97-02443E	ASSY SMD;LS24MYK,W/W	1	S.N.A	
.....6	D2	0406-001253	DIODE-TVS;VESD05A1-02V,6.0/6.8/7.5V,SOD-	1	S.N.A	
.....6	D3	0406-001253	DIODE-TVS;VESD05A1-02V,6.0/6.8/7.5V,SOD-	1	S.N.A	
.....6	L0405	0601-002461	LED;SMD,InGaN Blue,1.6X3.2X1.1mm,468nm,1	1	S.A	
.....6	U1	1209-001809	IC-SENSOR;MCS-5000,UQFN,24P,4x4mm,PLA STI	1	S.A	
.....6	R6	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
.....6	R7	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
.....6	R3	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	1	S.N.A	
.....6	R2	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.N.A	
.....6	RQ	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.N.A	
.....6	R4	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.N.A	
.....6	R5	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.N.A	
.....6	C1	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
.....6	C2	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
.....6	C3	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
.....6	C4	2203-006399	C-CER,CHIP;1000nF,10%,6.3V,X5R,1005	1	S.A	
.....6	PCB	BN41-01058B	PCB-FUNCTION;Mckinley 23" 24",FR-4,2,MP	1	S.N.A	
0.1	M0002	BN90-01780B	ASSY COVER REAR;LS23MY,SIMPLE_DUAL	1	S.N.A	
..2	M0013	BN96-08376B	ASSY COVER P-REAR;LS23MY,,HIPS,HB,BK23,S	1	S.A	
...3	M0113	BN61-02806A	BRACKET-VESA;LS20MEW,SECC,T1.0	2	S.N.A	
...3	M0006	BN63-03947A	COVER-REAR SUB;2243BW,HIPS,-,-,HB,-,BK	1	S.N.A	
...3	M0006	BN63-04856A	COVER-REAR;2343BW,HIPS,2.0,HB,BK23	1	S.N.A	
...3	M0126	BN73-00170A	RUBBER-FOOT;943BW,2043BW,RUBBER,8*8,1.5,	4	S.N.A	
0.1	M0106	BN91-02289J	ASSY LCD-STZ;LS23MYZ	1	S.N.A	
..2	M0215	BN07-00554A	LCD-PANEL;LTM230TT01-V	1	S.A	
0.1	M0017	BN91-02521Z	ASSY CHASSIS-STZ,W/W,M/ SWICH(X;LS23MYZKF	1	S.N.A	
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(WHT),SW	1	S.N.A	
..2	M0174	BN44-00247A	IP BOARD;FSP050-2PI05,Mckinley 23",0.7~2	1	S.A	
..2		BN61-02426A	BRACKET-SHIELD;S/M 203B,SPTE,T0.3	1	S.N.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..2	M0014	BN94-02053T	ASSY PCB MAIN-STZ,W/W;LS23MYZ*	1	S.A	
...3	T0245	0202-001608	SOLDER-WIRE FLUX;LFC7-107,D0.8,99.3Sn/0.	0.003	S.N.A	
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	S.A	
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	S.A	
...3	CN600	3711-004121	HEADER-BOARD TO BOARD;BOX,14P,1R,2mm,ANG	1	S.A	
...3	HDCP	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	S.N.A	
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A	
...3	T0174	BN97-02443F	ASSY SMD;LS23MYZ,W/W	1	S.N.A	
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,D20~45um,96.5Sn/3A	0.462	S.N.A	
....4	D100	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D600	0402-001614	DIODE-RECTIFIER;S1G,400V,1A,DO-214AC,TP	1	S.A	
....4	D601	0402-001614	DIODE-RECTIFIER;S1G,400V,1A,DO-214AC,TP	1	S.A	
....4	ZD100	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD101	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD102	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD103	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD104	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD105	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD106	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD202	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD203	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD204	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD601	0403-001411	DIODE-ZENER;5.49-5.73V,200mW,SOD-323,TP	1	S.N.A	
....4	ZD200	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A	
....4	ZD201	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A	
....4	Q201	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q203	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	Q204	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q601	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q202	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q205	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q207	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q602	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
....4	Q409	0505-001165	FET-SILICON;SI3443BDV,P,-20V,+4.4A,65mo	1	S.A	
....4	Q409	0505-001165	FET-SILICON;SI3443BDV,P,-20V,+4.4A,65mo	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8,SOP,8P,5x4mm	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8,SOP,8P,5x4mm	1	S.A	
....4	IC112	1103-001410	IC-EEPROM;S-24CS08AFJ-TB-1GE,8Kbit,1Kx8,	1	S.A	
....4	T0087	1203-003695	IC-POSI.FIXED REG.;NCP1117ST33T3G,SOT-22	1	S.A	
....4	T0087	1203-003695	IC-POSI.FIXED REG.;NCP1117ST33T3G,SOT-22	1	S.A	
....4	T0087	1203-003696	IC-POSI.FIXED REG.;NCP1117DT18T5G,DPAK,3	1	S.A	
....4	R100	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R101	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R102	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R103	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R104	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R105	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R106	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R107	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R204	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R205	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R227	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R228	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R111	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R113	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R114	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R117	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R120	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R132	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R202	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R203	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R206	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R207	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R212	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R213	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R216	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R230	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R231	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R245	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R250	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R251	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R252	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R255	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A	
....4	R108	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R123	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R270	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R209	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R218	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R229	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R219	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R223	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R234	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R600	2007-000088	R-CHIP;7.5Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R109	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R126	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R200	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R201	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R210	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R211	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R214	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R215	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R217	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R220	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R221	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R222	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R224	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R226	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R233	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R236	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R253	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R271	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R275	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R601	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R602	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R603	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R612	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R225	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R604	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R125	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R208	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R232	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A	
....4	R273	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A	
....4	R116	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R235	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R110	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R121	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	S.A	
....4	R122	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	S.A	
....4	R112	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R115	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R119	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	C201	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C202	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C229	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.N.A	
....4	C109	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C218	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C221	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C116	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	S.N.A	
....4	C115	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C210	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C211	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	S.N.A	
....4	C106	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C107	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C108	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C110	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C111	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C112	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,TP,1608	1	S.A	
....4	C101	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C103	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C117	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C118	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C120	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C121	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C122	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C123	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C124	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C125	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C130	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C131	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C200	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C203	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C204	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C205	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C206	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C209	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C212	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C213	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C234	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C600	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C601	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C603	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C604	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C605	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C606	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C609	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C610	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C612	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C613	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C614	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C617	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C618	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C619	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C620	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C621	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C622	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C623	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C626	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C627	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C628	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C630	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C631	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C632	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C635	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C636	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C637	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C638	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C640	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C641	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A	
....4	C208	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C228	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C230	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C608	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.N.A	
....4	C207	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.N.A	
....4	C236	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.N.A	
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.N.A	
....4	C238	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.N.A	
....4	C602	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.N.A	
....4	X202	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AN,16p	1	S.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	T0568	3301-001407	BEAD-SMD;30ohm,1608,300mA,TP,,,0.4ohm	1	S.N.A	
....4	F601	3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,Hi	1	S.N.A	
....4	CN330	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	S.N.A	
....4	T0077	BN41-01085A	PCB MAIN;Mckinley 23 Inch,SILVER THROGH,	1	S.N.A	
....4	MICOM	BN97-02352Z	ASSY MICOM-STZ,W/W;LS23MYZ*,W/W	1	S.N.A	
.....5	IC115	1107-001614	IC-FLASH MEMORY;MX25L1005,1Mbit,1Mx1,SOP	1	S.N.A	
....4	IC109	1205-003575	IC-LCD CONTROLLER;SE85AMH-LF,PQFP,128P,2	1	S.A	
....4	C629	2402-001128	C-AL,SMD;100µF,20%,16V,-,TP,6.3X5.7mm	1	S.A	
....4	C639	2402-001128	C-AL,SMD;100µF,20%,16V,-,TP,6.3X5.7mm	1	S.A	
..2	M0006	BN96-07245F	ASSY SHIELD P-COVER;LS24MY,SECC T0.8,SIM	1	S.N.A	
...3		BN61-02429E	STUD-PEM;PNB,M2.8,D7,L24,ZPC(SIL),SUM24L	1	S.N.A	
...3		BN61-03556C	BRACKET-SUPPORT STAND;Mckinley,SECC,T1.6	1	S.N.A	
...3	M0107	BN63-03942B	SHIELD-COVER;LS20MYW,SECC,T0.8,AUO Panel	1	S.N.A	
...3	M0131	BN63-03474A	GASKET;HUBBLE 27",Polyurethane+Polyester	3	S.N.A	
...3		BN61-03594A	SPRING ETC-STAND;Mckinley,SUS304,T0.3,SI	1	S.N.A	
..2	M2893	BN39-00799B	LEAD CONNECTOR-LVDS;2343BW(MCKINLEY 23")	1	S.A	
..2	M0081	6003-000264	SCREW-TAPTITE;PWH,+,-,B,M3,L6,ZPC(WHT),S	2	S.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..2	M0081	6003-000264	SCREW-TAPTITE;PWH,+,-,B,M3,L6,ZPC(WHT),S	1	S.A	
0.1	M0112	BN91-02623A	ASSY SHIELD;LS23MY	1	S.N.A	
..2		BN63-04857A	SHIELD-LAMP;2343BW,SPTE,T0.3	1	S.N.A	
..2	CIS1	BN74-00021A	TAPE-FILAMENT;Filament tape,clear,#8915,	0.18	S.N.A	
0.1	M0113	BN92-03691W	ASSY P/MATERIAL;LS23MYKBB/EDC	1	S.N.A	
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,W500,L1000,TRP,-,-,-,3	0.007	S.N.A	
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-,-,	0.002	S.N.A	
..2	T0524	6902-000520	BAG PE;HDPE/NITRON,T0.015/ T0.5(DOUBLE),W	1	S.N.A	
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.02	S.N.A	
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-,	0.2	S.N.A	
0.1	M0003	BN92-03870X	ASSY BOX;LS23MYZKBB/XSF	1	S.N.A	
..2		BN69-02948B	BOX-SET;2343BW-SIMPLE,CB,A-01,SW-50,YEL,	1.02	S.N.A	
0.1	M0045	BN92-03965F	ASSY ACCESSORY;LS23MYZKBB/XF	1	S.N.A	
..2	M0114	BN39-00244G	CBF SIGNAL;D-sub cable,15P/15P,20276N,15	1	S.A	
..2	STD	BN96-08273B	ASSY STAND P-BODY;LS24MY,HIPS HB,BK26,SM	1	S.A	
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(BLK),SW	6	S.N.A	
...3	T0524	6902-000675	BAG PE;LDPE,T0.05,W200,L250,PINK,28,-,3	1	S.N.A	
...3		BN63-04891A	COVER-STAND FRONT;2343BW/ 2443BW,HIPS,HB,	1	S.N.A	
...3		BN63-04892A	COVER-STAND REAR;2343BW/ 2443BW,HIPS,HB,B	1	S.N.A	
...3	T0022	BN96-08330B	ASSY HINGE P-SIMPLE;2443BW,SM50C,SIMP LE	1	S.N.A	
..2	M0027	BN96-08274A	ASSY STAND P-BASE;LS24MY,ABS HB BK26	1	S.A	
...3	M0081	6003-001001	SCREW-TAPTITE;FH,+,-,B,M3,L8,ZPC(BLK),SW RC	4	S.N.A	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2,-,9	1	S.N.A	
...3	M0963	BN61-00251A	FOOT;GH17BS,RUBBER,T1.6	4	S.N.A	
...3	CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+,-,M4,L11(5)	1	S.N.A	
...3		BN61-03824A	BRACKET-STAND BOTTOM;LS24LIU,SECC,T1.2	1	S.N.A	
...3	CCM1	BN63-02183L	COVER-SHEET;Rhcmm,PE Vinyl,T 0.05,300MM,2	0.3	S.N.A	
...3	M0412	BN63-02964A	COVER-SWIVEL BASE;LS20MEW,HIPS HB,BK07	1	S.N.A	
...3		BN63-02965A	COVER-SWIVEL RING;LS20MEW,POM HB,BLK	1	S.N.A	
...3	T0004	BN63-04889A	COVER-STAND BASE;2343BW/ 2443BW,HIPS,HB,B	1	S.N.A	
...3		BN96-06529A	ASSY HOLDER P-WIRE;MCKINLEY,ABS HB,BK23	1	S.N.A	
...4		6902-000336	BAG ZIPPER;LDPE,T0.05,W70,L80,TRP,-,-,-,	1	S.N.A	
...4	M0114	BN61-03555A	HOLDER-WIRE;MCKINLEY,ABS HB,BK26	1	S.N.A	
..2	M0045	BN96-08783S	ASSY ACCESSORY;LS23MYZKBB/XSF	1	S.A	
...3	T0268	3903-000082	CBF-POWER CORD;DT,CN,IP3/YES(A),I(IEC C1	1	S.A	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2,-,9	1	S.N.A	
...3		BN68-01118B	MANUAL-02,TCO03 CARD;COMM,W/W,Mojo 100g,	1	S.N.A	
...3	T0238	BN68-01789A	MANUAL FLYER-WARRANTY CARD;Chinese,Art 1	1	S.N.A	

5. Exploded View & Part List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3		BN68-01802A	MANUAL FLYER-02,QSG;2343BW,2343BW,SY ncm	1	S.N.A	
0.1	M0019	BN92-03547R	ASSY LABEL;MY23*(BLACK)	1	S.N.A	
..2		BN68-01818A	MANUAL FLYER-INFORMATION SHEET;2343BW,23	1	S.N.A	
..2	CIS1	BN74-00021A	TAPE-FILAMENT;Filament tape,clear,#8915,	0.05	S.N.A	

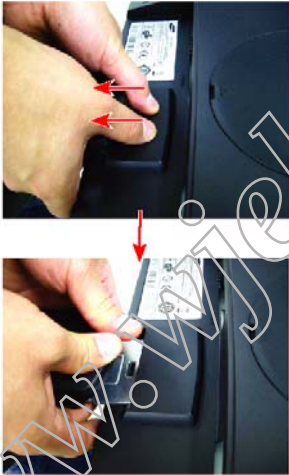
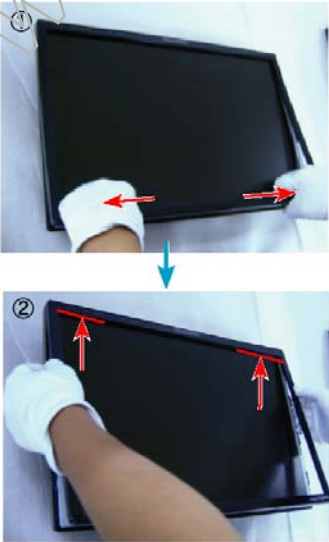
3.拆卸和重新组装

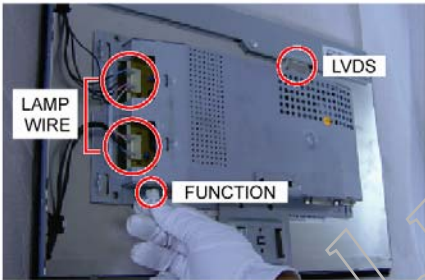
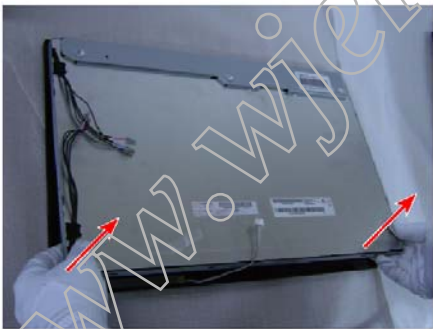
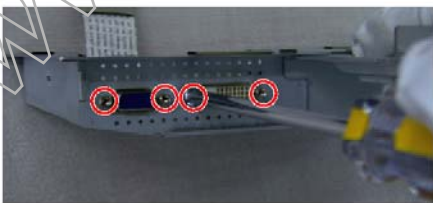
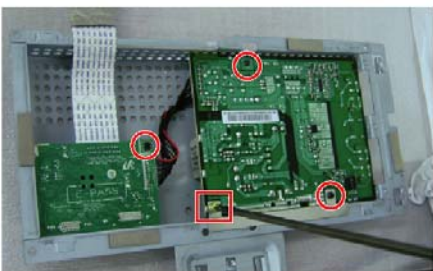
维修手册的这一章叙述此液晶显示器的拆卸和重新组装步骤。

⚠ 警告：本显示器包含静电敏感器件，处理这些部件时应小心。

3-1.拆卸

- ⚠ 小心：1. 拆卸显示器前，请断开电源。
2. 显示器拆卸时，除所提供的工具外不得使用其它金属工具。
3. 拆卸显示器小心按如下步骤进行。

说明	图片说明	螺钉
1.在桌面上铺一块软布，并将显示屏面朝下放在软布上。用一只手握住机体，并用另一只手握住底座，将机体从底座上分离。 ⚠ 小心：如果不倾斜底座并在拆卸时使用过大的力气，连接管脚可能会受到损坏。		
2. ①翻转显示器并将手插入到显示器的顶部中央，并按照如图箭头所示方向拆卸前盖。 ②按照如图所示反向拆卸前盖侧部。		
3.再次翻转显示器拆卸后盖。		

说明	图片说明	螺钉
4.使用工具拆卸灯护罩。 ⚠ 小心：灯护罩很锋利。		
5.拆卸 LVDS、转换器及功能接线并拆卸护板盖。		
6.拆卸液晶显示屏板。		
7.拆卸如图所示的四（4）处螺钉。		
8.拆卸如图所示的四（4）处螺钉和机架。		 

说明	图片说明	螺钉
9.从护板盖处拆卸主印刷电路板和 IP 板。		

※组装步骤与拆卸步骤相反。

<http://www.wjcl.net>

3-2. 拆卸底座

说明	图片说明	螺钉
1.如果底座上的限位销未被拆卸，请在桌面上铺一块软布，并将显示屏面放在上面。然后握住机体，从底座的后部将限位销卸下。		
2. 翻转显示器。拆除固定底座的两（2）处螺钉，然后卸下底座。 △小心：在拆卸螺钉时，用一只手握住底座使其不要翻倒。		
3.如下的步骤与 2-9 拆卸简易底座的步骤相同。		

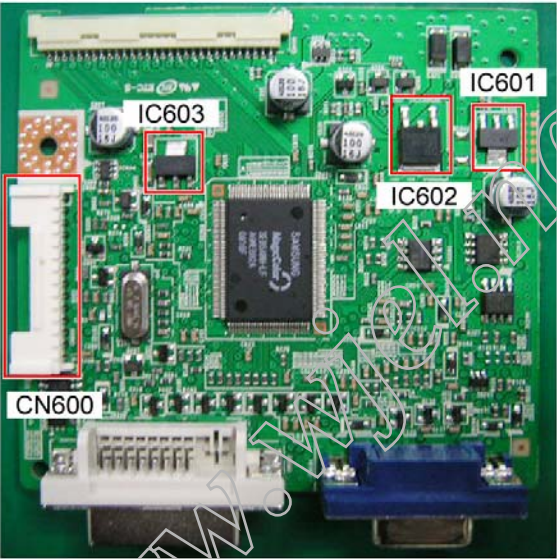
※ 组装步骤与拆卸步骤相反。

4 故障排除

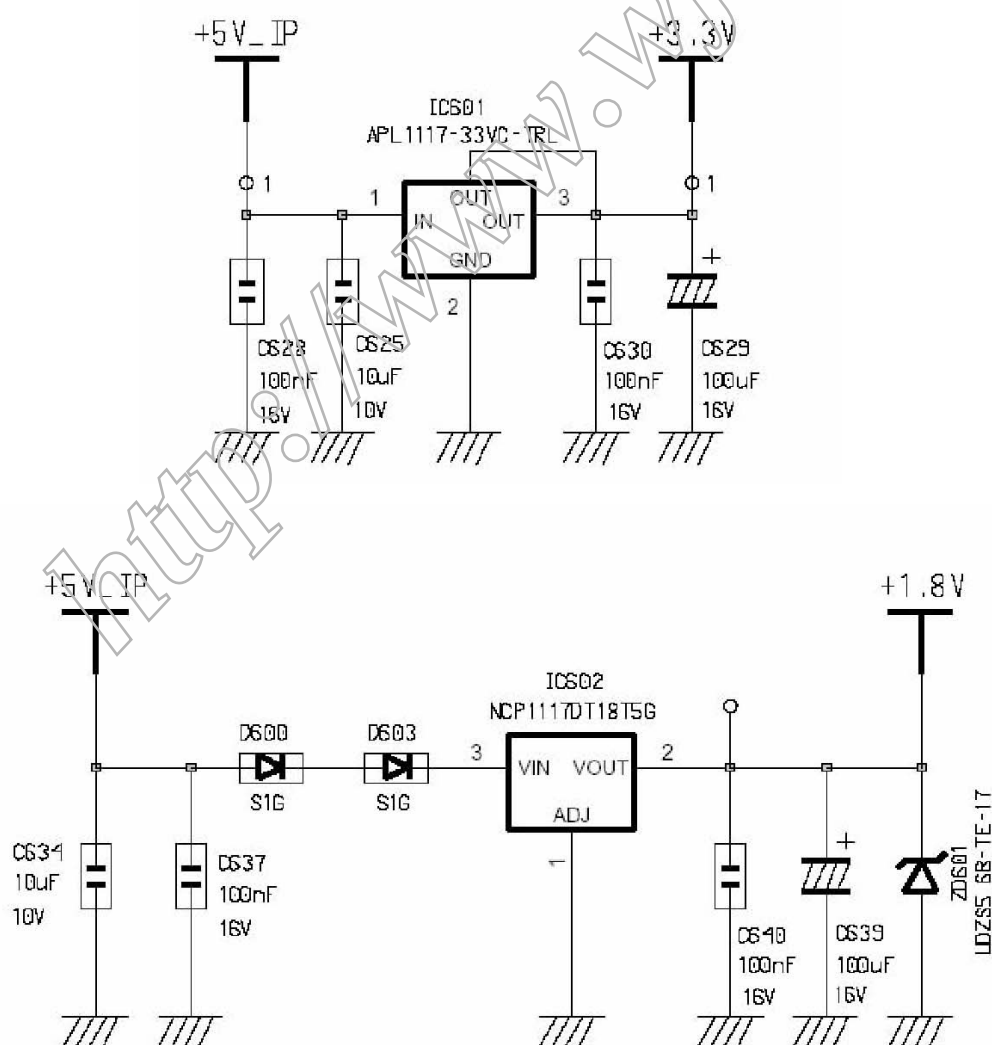
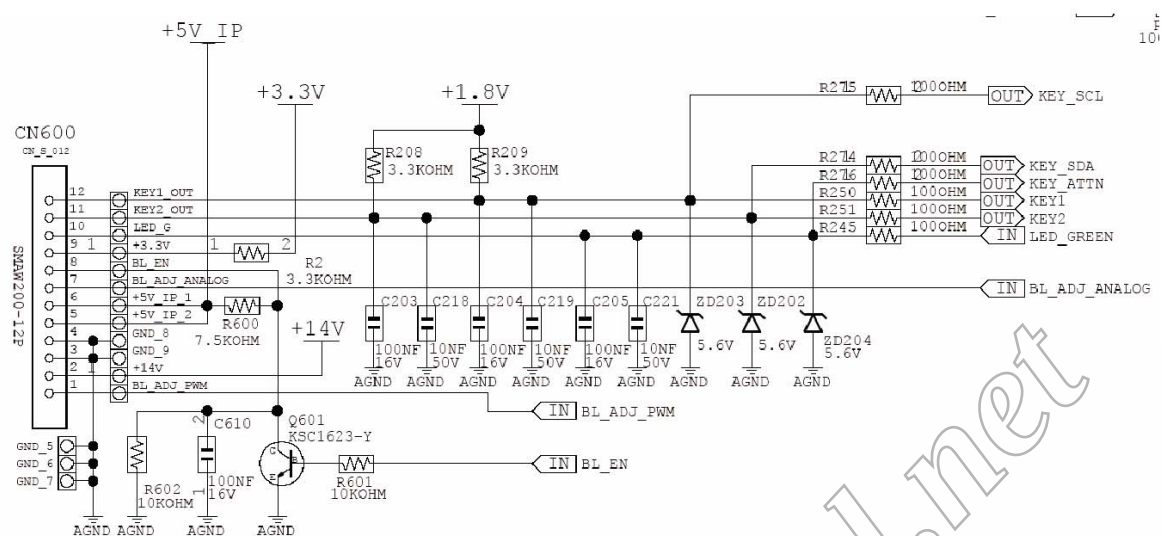
4-1. 故障排除

1. 在进行故障排除之前，按如下方式设置制式模式：
 - 分辨率：2048×1152
 - 水平频率：74kHz
 - 垂直频率：60 Hz
2. 如果没有图像出现，确保正确连接了电源线。
3. 检查以下电路：
 - 没有光栅出现：功能印刷电路板组件、主印刷电路板组件、I/P 印刷电路板组件
 - 5V 形成，但没有画面：主印刷电路板组件
 - 5V 没有形成：I/P 印刷电路板组件
4. 按下菜单键并按住“(确认/来源)”键 5 秒，显示器会自动进入工厂预设。

4-2 电源未打开

征兆	-连接电源后打开电源按钮时，显示器前部的 LED 指示灯不运行。
主要检查点	-连接电源线后打开电源按钮，显示器前部的 LED 灯不运行。 -检查 IP 板保险丝和 IP 板输出功率。 -检查 IP 板和显示器内部主板的连接情况。 -检查主板电源部分，同时检查其它输出终端是否有任何输出异常。
诊断	
	检查功能组件的连接状况 否 是 否 是 否 是 否 是 检查并更换IP板 检查IC601上的相关电路 检查IC602上的相关电路 更换IP板
注意	在 IP 板工作之前确保电源断开。

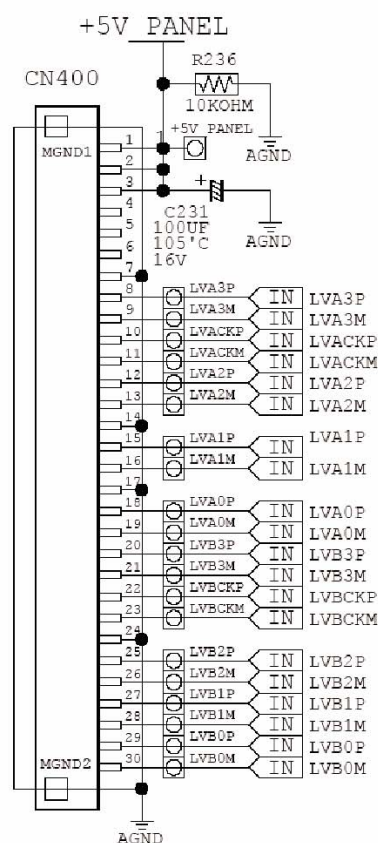
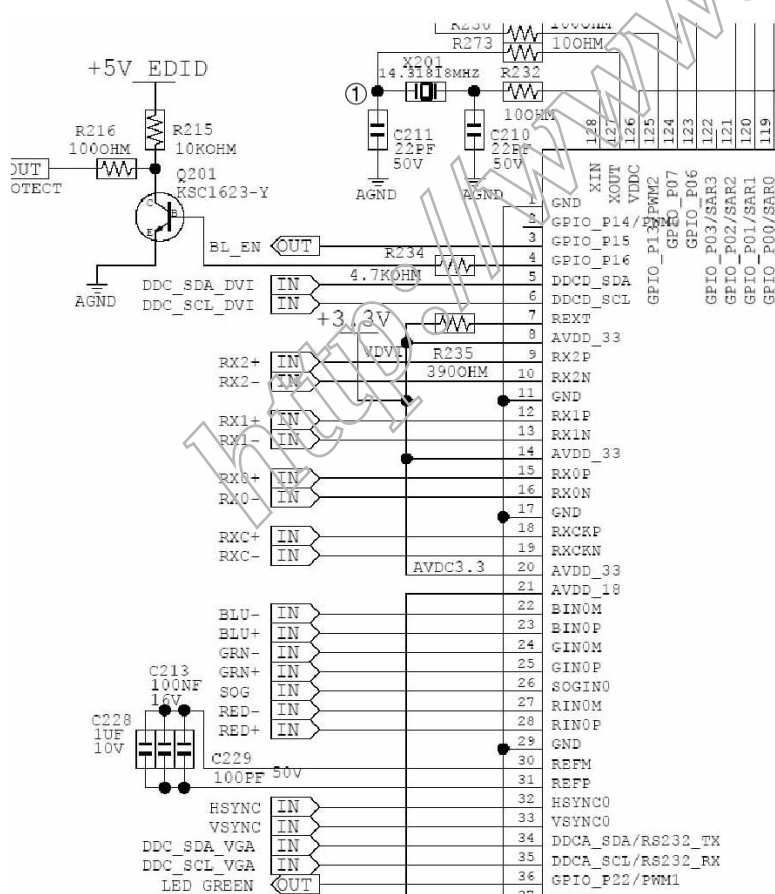
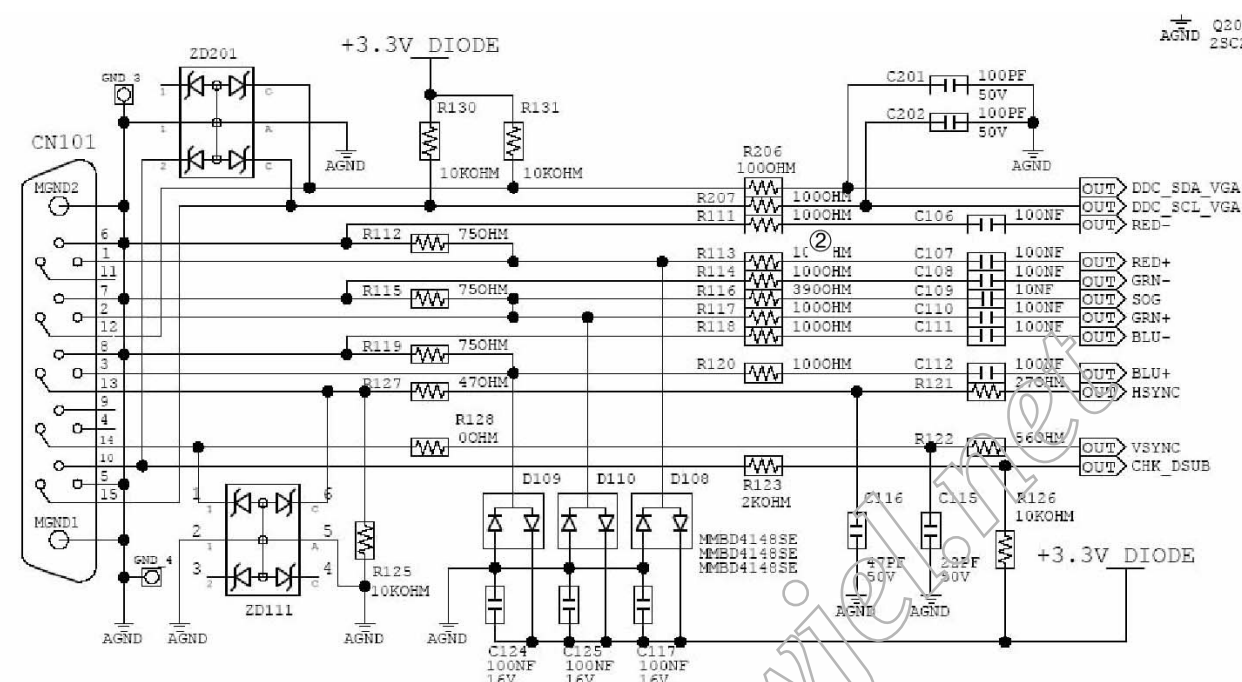
4-2-1 电源未开时的电路图



4-3. 当显示器黑屏时（模拟）

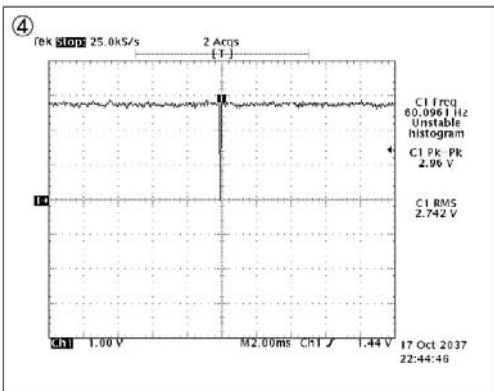
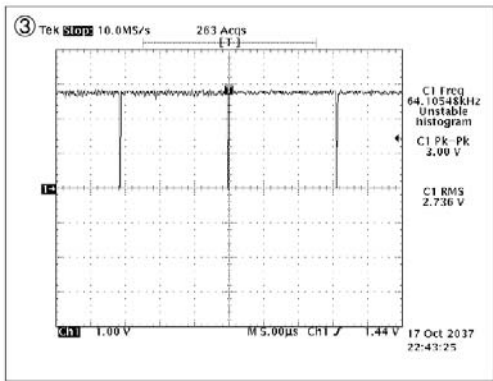
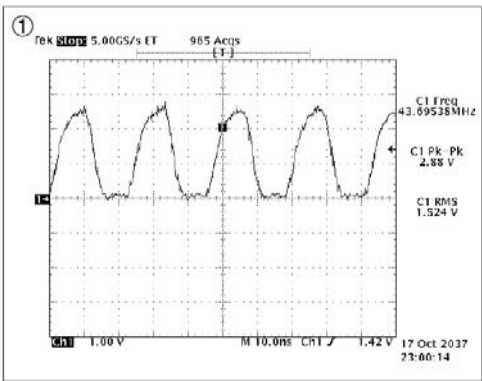
征兆	-尽管 LED 电源打开，但连接 VGA 接线时，屏幕仍为黑屏。
主要检查点	-即使 LED 电源打开，连接 VGA 接线时，屏幕仍为黑屏 -检查 D-SUB 接线的连接情况。 -检查 LVDS 接线是否正确连接到面板上。 -检查面板灯连接器是否正确连接到了 LP 板上。
	
诊断	检查信号接线及其连接 是 检查 X201 震荡是否正常？ 否 如果需要检查并更换与 X201 相关的电路。 是 在 R111、R114、和 R118 上是否出现了 RGB 输入？ 否 检查 R111、R114、和 R118 的输入终端 是 检查 IC200 的管脚 32、33 上是否出现了水平同步和垂直同步的波形？ 否 检查 IC200 和相关电路 是 CN400 的管脚 8 到管脚 30 是否出现了输出信号？ 否 检查 CN400 和相关电路 是 在 CN400 的管脚 1、2、3 上的电压是否为 DC5V？ 否 检查 +5V_ 板信号和 BL_EN 信号 是 更换液晶显示器板
注意	在 IP 板工作之前确保电源断开。

4-3-1. 显示器上出现黑屏时的电路图和波形图（模拟）



4 故障排除

4-3-2. 显示器上无显示时的波形图（模拟）

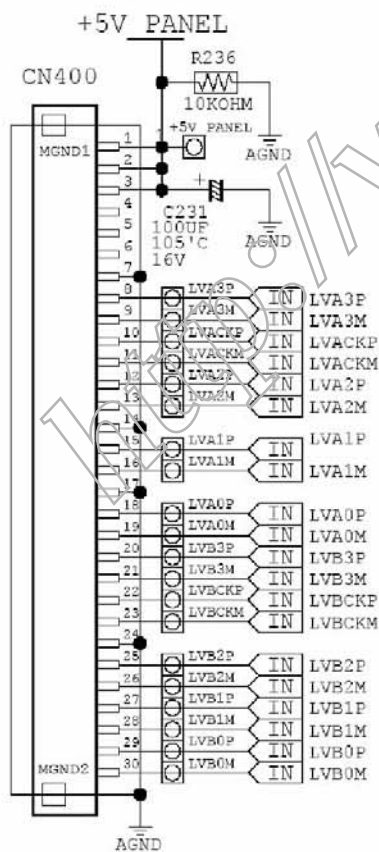
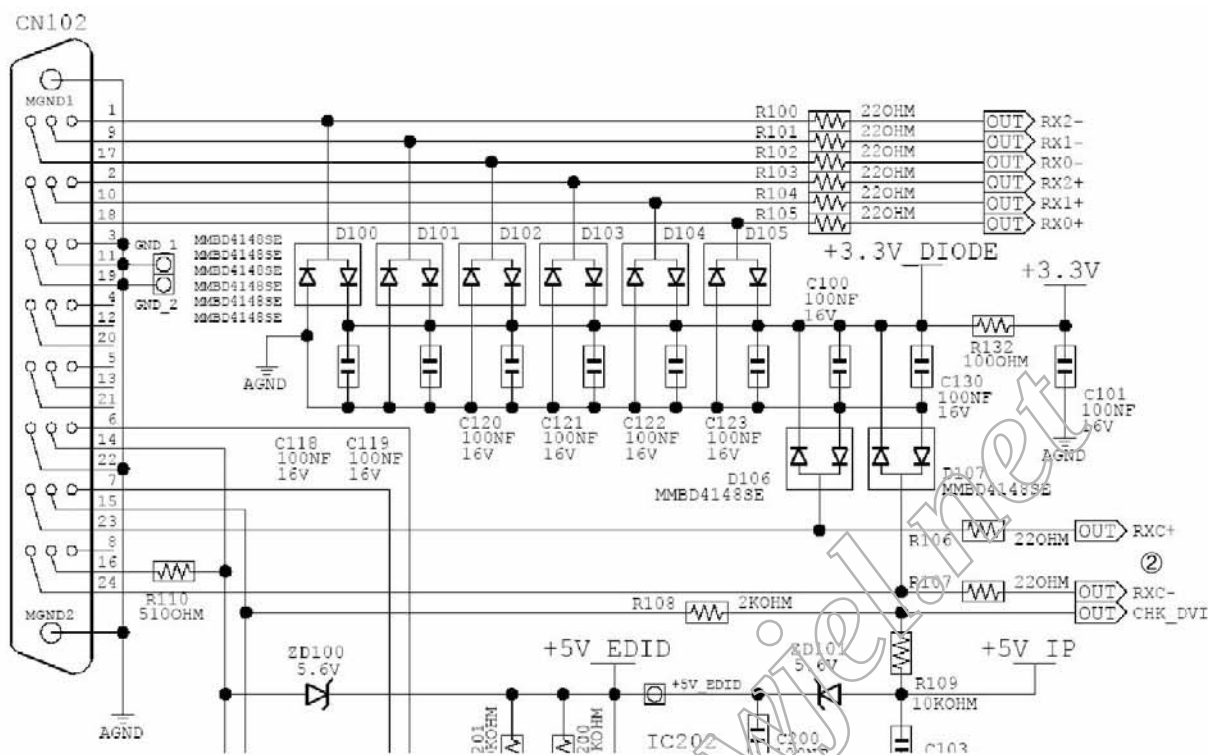


4-4. 当显示器黑屏时(数字)

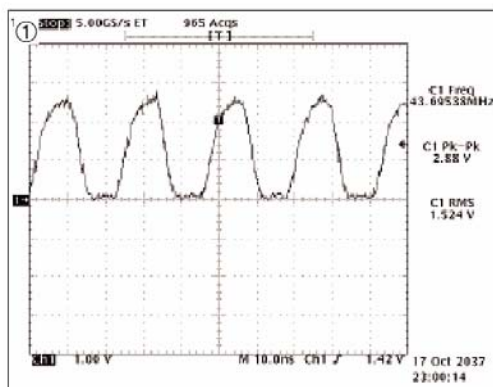
征兆	-尽管 LED 电源打开，但连接 DVI 接线时，屏幕仍为黑屏。
主要检查点	-即使 LED 电源打开，连接 DVI 接线时，屏幕仍为黑屏 -检查 DVI 接线的连接情况。 -检查 LVDS 接线是否正确连接到面板上。 -检查面板灯连接器是否正确连接到了 IP 板上。
诊断	<pre> graph TD A[检查信号接线及其连接] -- 是 --> B[检查 X201 震荡是否正常?] A -- 否 --> C[检查并更换与X201 相关的电路。] B -- 是 --> D[在R100、R101、R103和R107 上是否出现了RGB输入?] B -- 否 --> C D -- 是 --> E[CN400的管脚8到管脚30是否 出现了输出信号?] D -- 否 --> F[检查 R100、R101、R103 和R107的输入终端] E -- 是 --> G[在 CN400 的管脚 1、2、3 上的电压是否为 DC5V?] E -- 否 --> H[检查 CN400 和相关电路] G -- 是 --> I[更换液晶显示器面板] G -- 否 --> J[检查板EN信号和 BL_EN 信号] </pre>
注意	在 IP 板工作之前确保电源断开。

4 故障排除

4-4-1. 显示器上出现黑屏时的电路图（数字）



4-4-2. 显示器上出现黑屏时的波形图（数字）



4-5 故障和校正措施

故障图片	征兆和校正措施	备注
	征兆：无法识别 DVI 信号。 原因：由于 DVI DDC 未被输入到显示器中，电脑无法识别模式信息时会发生此故障。 校正措施：将 DVI DDC 输入到显示器中。	*请参阅关于DVI DDC输入信息的培训手册。
	征兆：打开显示器时，无论是否有信号，连续显示全白图案。 原因：由于 LVDS 接线发生故障或错误连接，在仅供应灯电源并且未向面板输入视频信号时会发生此故障。 校正措施：更换或重新正确连接 LVDS 接线，以能够将视频信号输入到面板中。	*全白图案是TN面板的一个特点，可在未输入视频信号时显示。
	征兆：在连接 DVD 时，显示屏会有噪音产生。 原因：HDCP 解码没有被输入。 校正措施：输入 HDCP 解码。（参阅 4-17）	

4-6. 调节

4-6-1. 维修调节条件

1. 维修调节前的注意事项

- 1) 检查维修调节的设备是否操作正常。
- 2) 为了安全在足够大的空间处拆卸显示器。
- 3) 在拆卸前准备一块软垫。

2. 进入维修模式

进入：[菜单] → [亮度 0] → [对比度 0] → [按下确认键 5 秒]

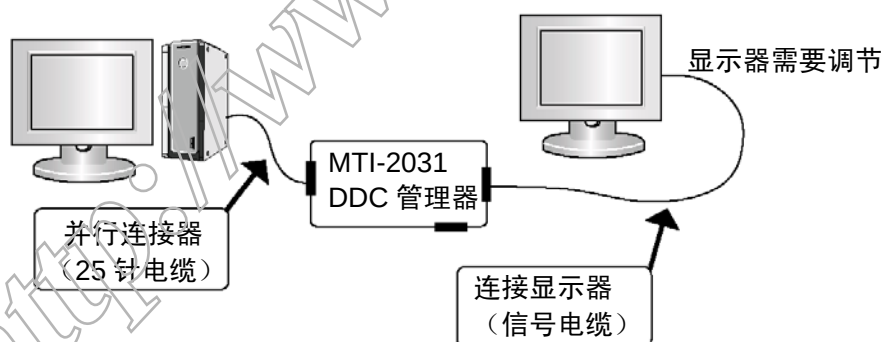
退出：[关闭电源] → [开启电源]

3. 更换板后的基本维修项目

- 1) 检查 PC 颜色调节状态。
- 2) DDC 输入（模拟和数字输入）
- 3) 检查此型号是否有合适的 MCU 代码输入。
- 4) 进入维修模式后硬关机并进行预设。

4. DDC EDIT 数据输入

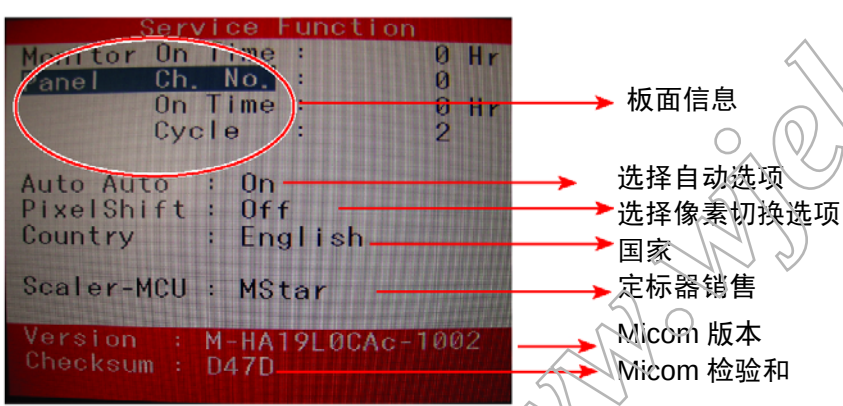
- 1) 在 AD 板代码更新时使用。
- 2) 通过三星电子质量控制部门下载适于该机型的 WinDDC 程序、DDC 输入程序和 DDC 文件。
安装以下装置并输入数据，如图所示。



4-6-2.维修功能规格

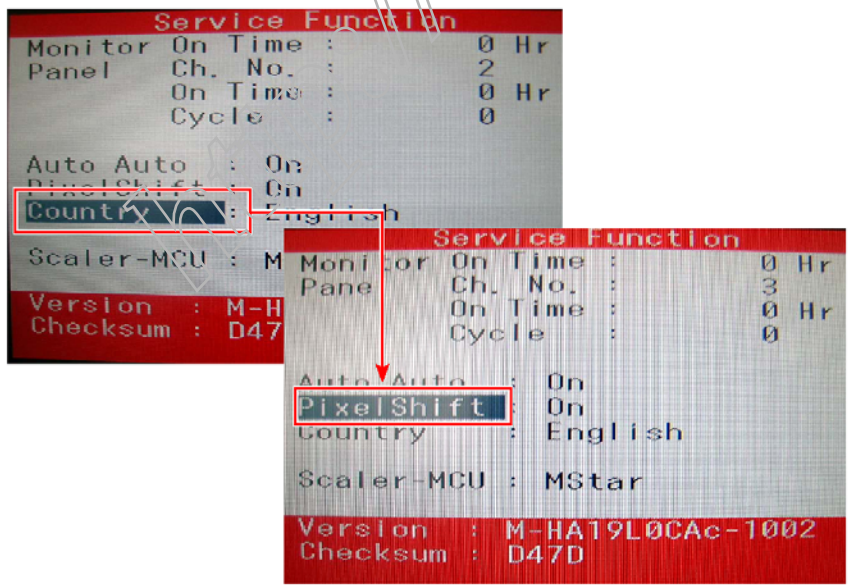
■ 检查代码版本

- 1.进入 SVC 模式后检查 MCU 代码版本和检验和。
- 2.进入 SVC 模式
 - 设置亮度和对比度到 0。
 - 按下确定键和来源键 5 秒。
 - 出现在屏显示调节 SVC 功能。
 - 如要退出在屏显示调节功能，你必须先要关闭电源
- 3.安全模式
 - 当输入信号高于产品所限的频率后，安全模式会为用户提供些时间（1 分钟）来改变视频卡的设置到被应许的模式设置下。

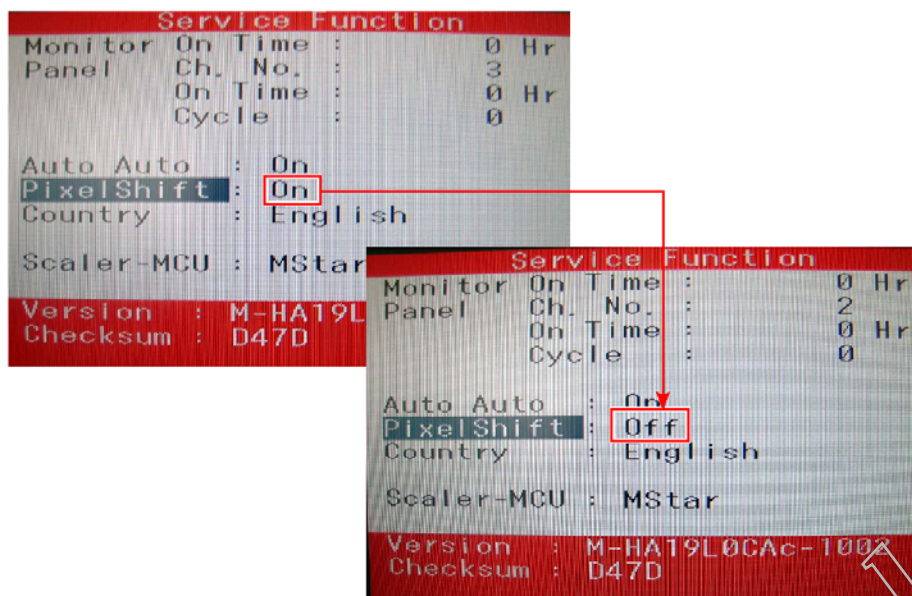


■ 维修模式（移动）

- 1. 按下+按钮，选择菜单。



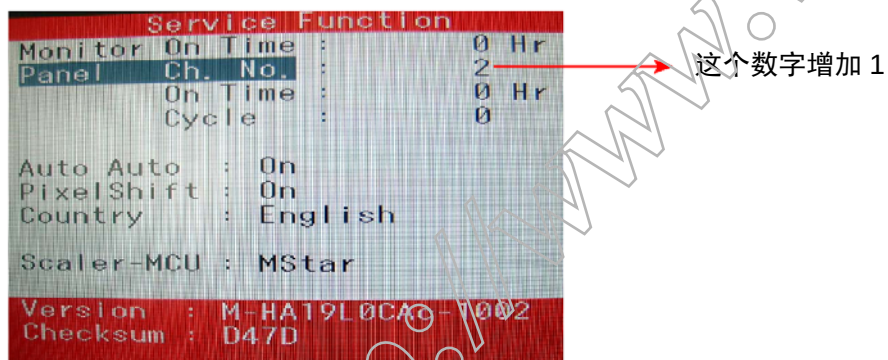
2. 按下-号按钮，更改设置到开或关。



■ 更换面板时

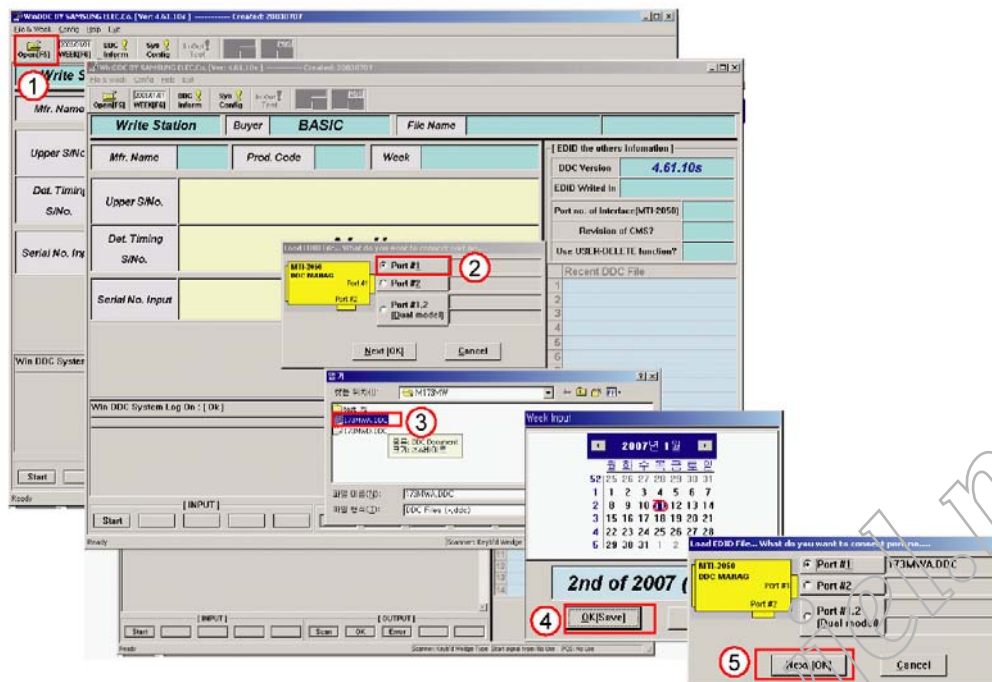
更换面板后，选择面板项目并按下菜单按钮 5 秒。

板面 Ch.No 将会增加 1，且时间信息会更改到 0。



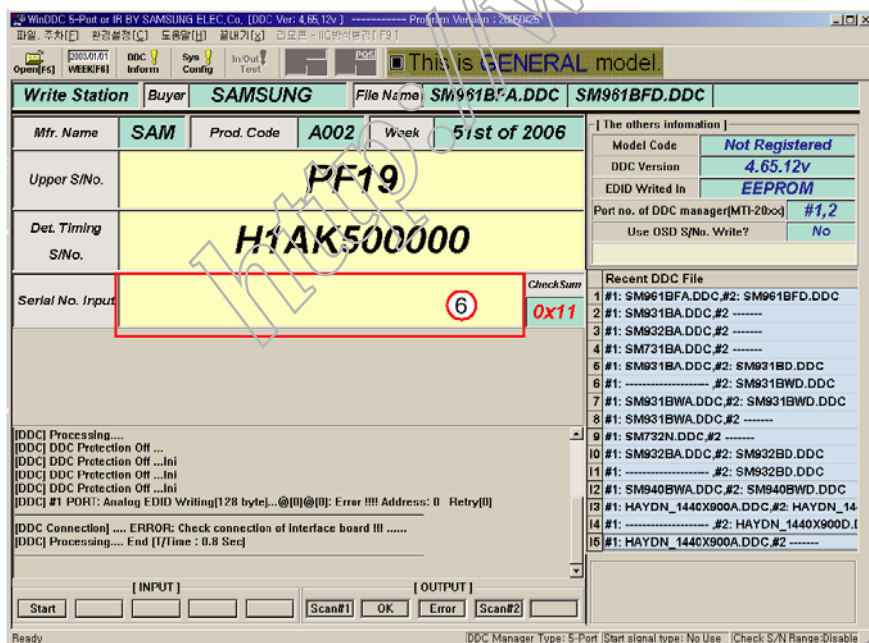
4 故障排除

■ 输入 DDC 数据



使用 DDC 管理器 MTI-2050 版本或更新

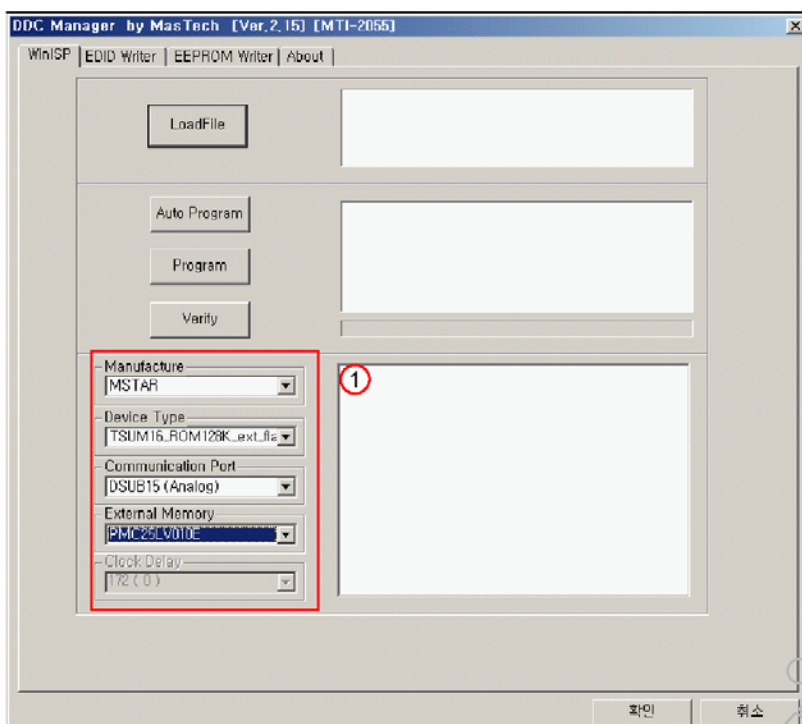
1. 点击打开[F5]图标。
2. 选择一个端口。
3. 打开 DDC 文件。
4. 选择一个日期并点击确认[保存]按钮。
5. 点击下一步[确定]按钮。



6. 输入系列编号并按下确认键。

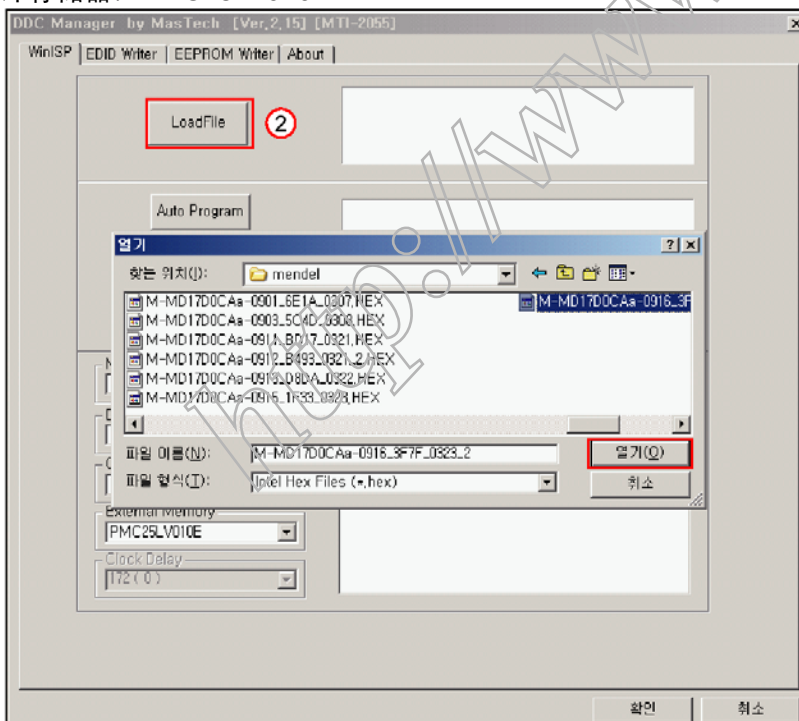
*输入模拟数据后，再输入数字数据，重复此过程2到5次。

■ 输入 MCU 数据



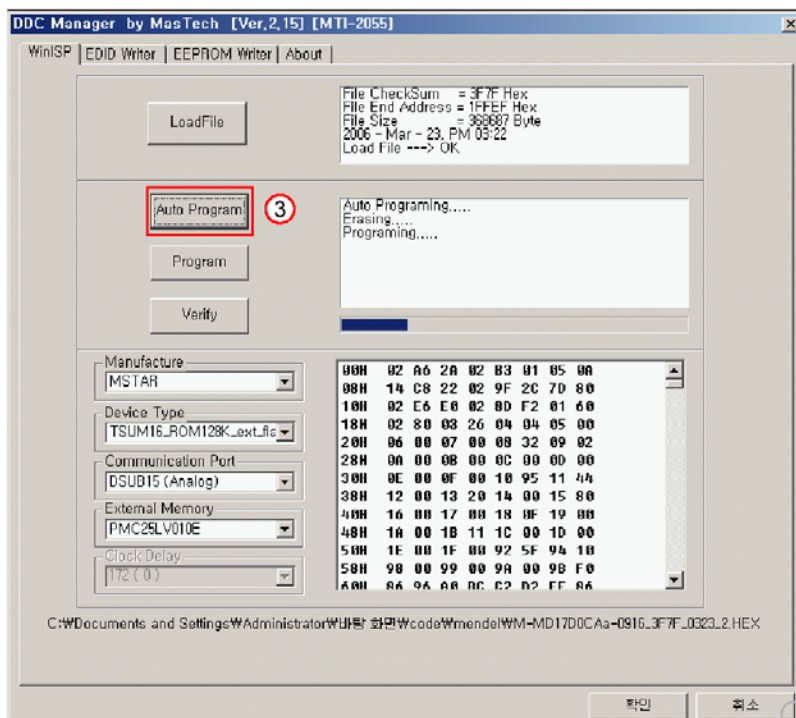
1) 检查下列选项

- 产品: MSTAR
- 设备类型: TSUM16_ROM128K_ext_flash
- 通讯端口: DSUB15 (模拟)
- 外存储器: PMC25LV010E

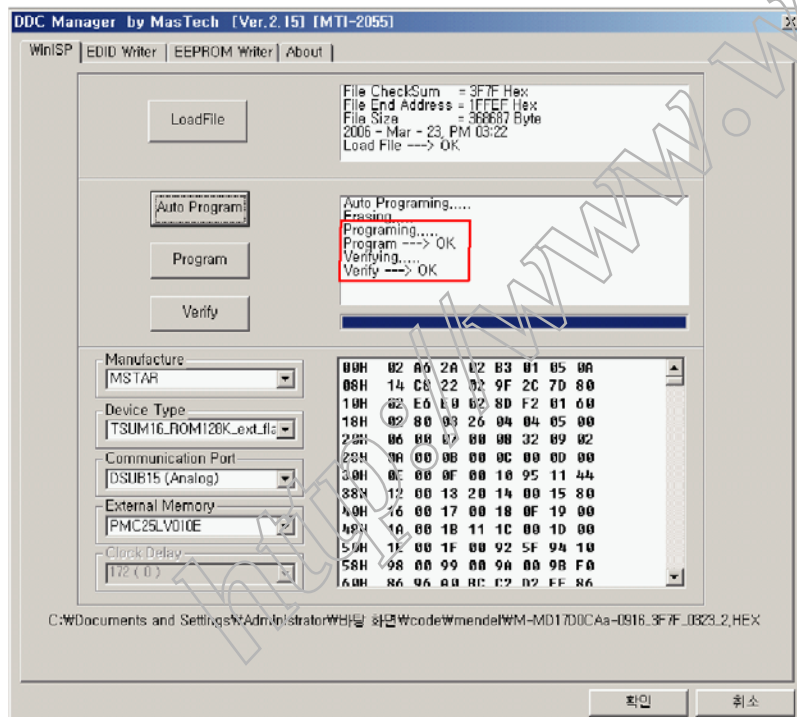


2) 点击“文件下载”按钮后，选择 MCU 代码文件，之后并点击打开[O]按钮。

4 故障排除

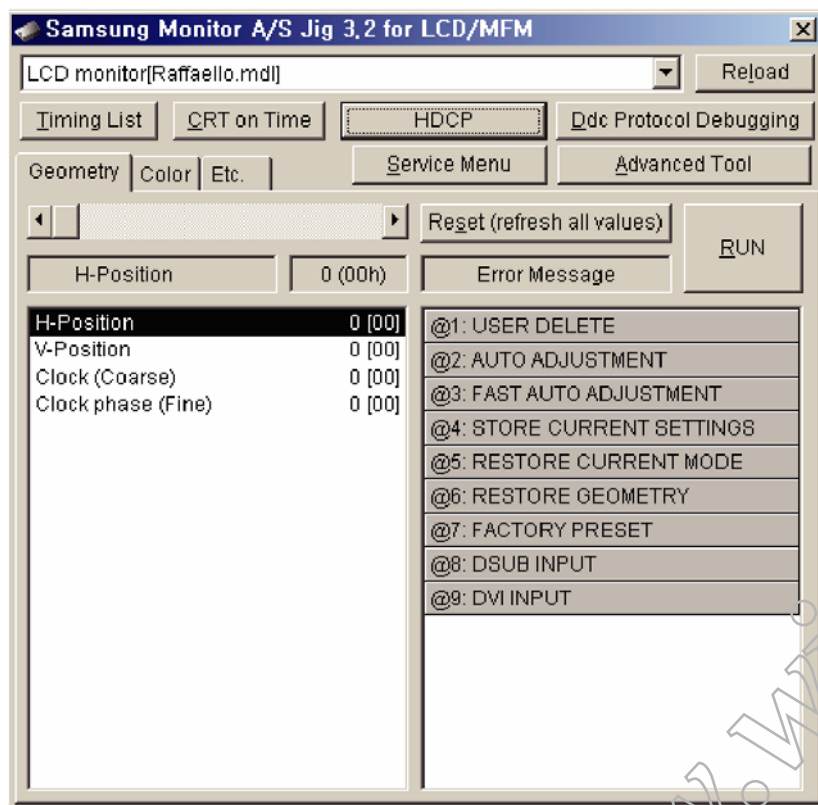


3) 点击自动程序按钮。

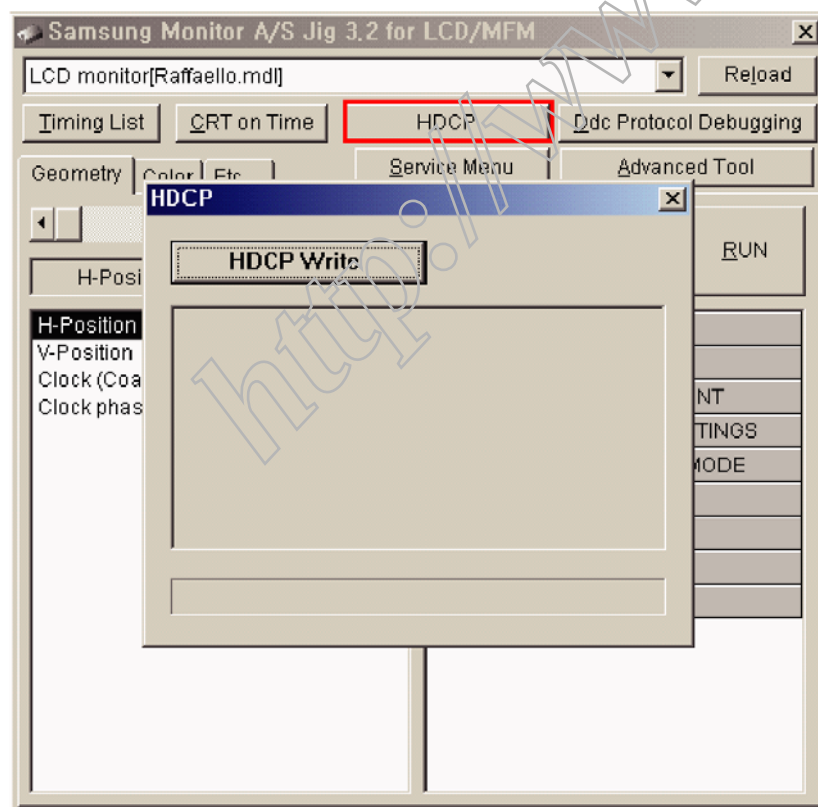


4) 程序校验完成后，显示器硬关机并再次启动。

■ 输入代码（HDCP）

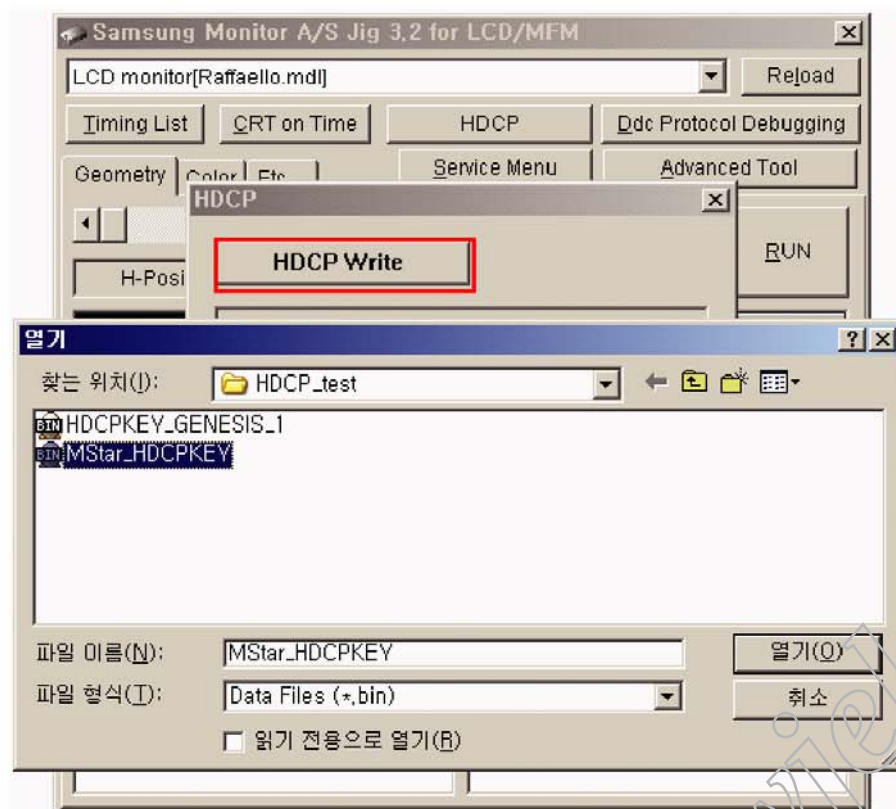


1. 运行 service.exe 文件。

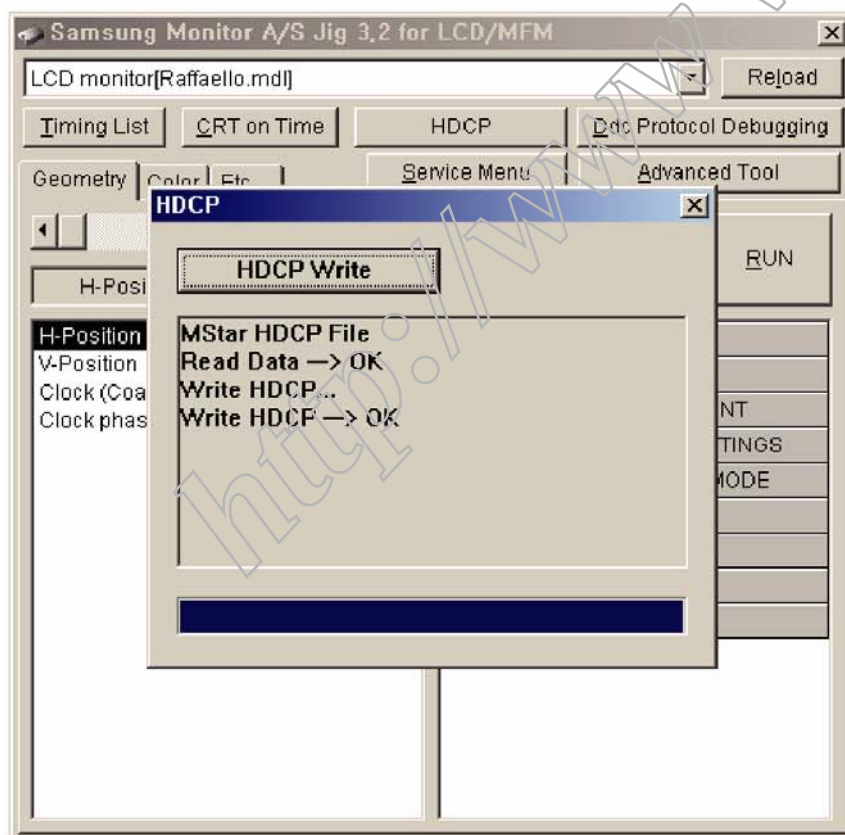


2. 点击 HDCP 按钮。

4 故障排除



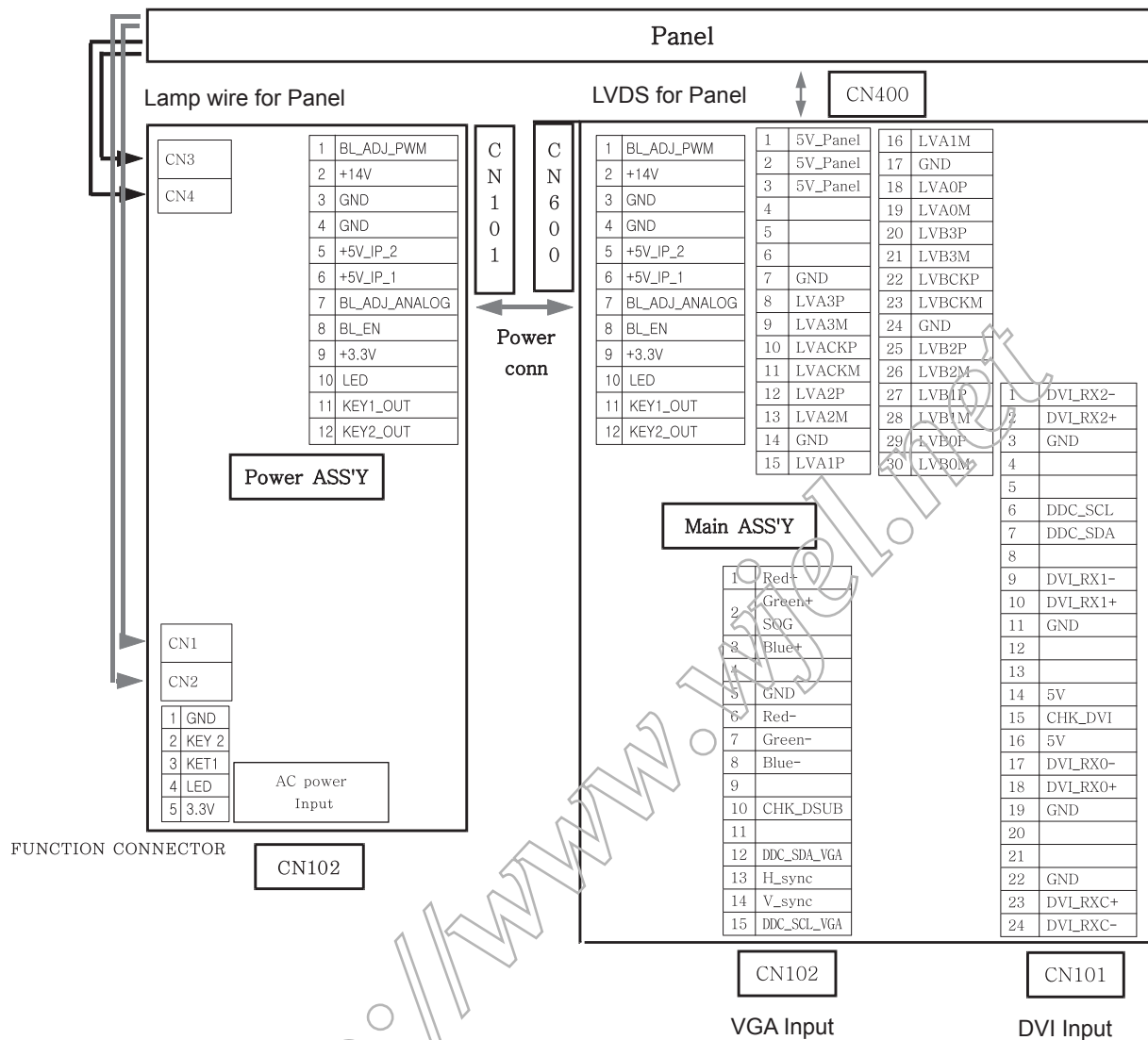
3. 点击 HDCP 写按钮并选择 MStar_HDCPKEY。



4.HDCP 解码输入完成。

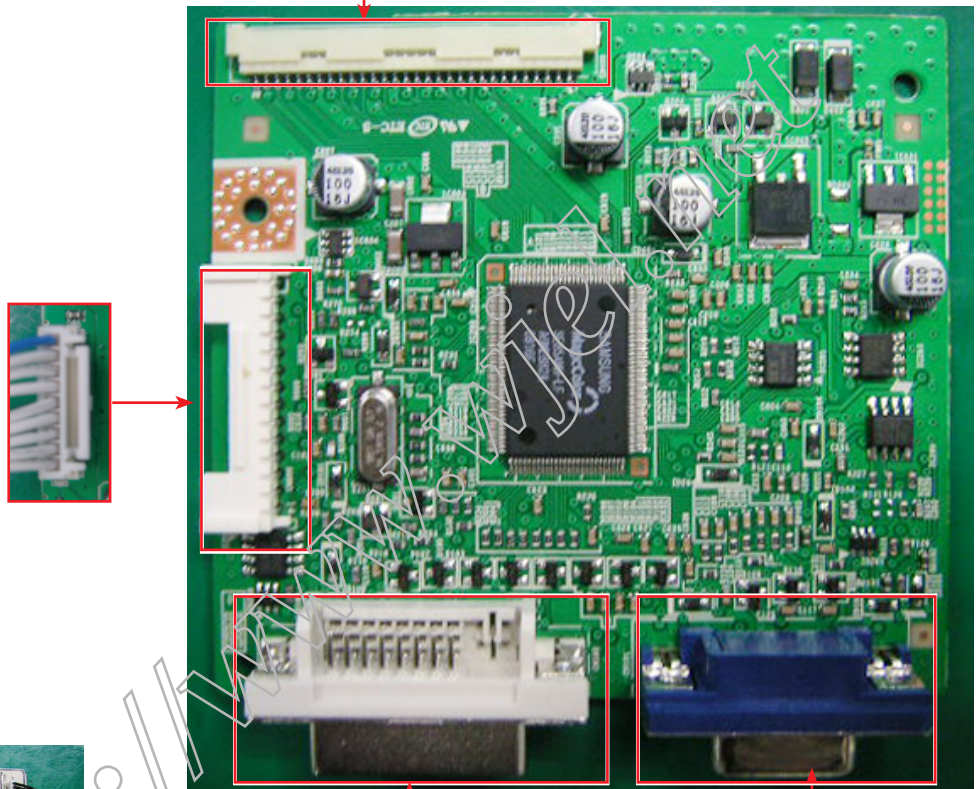
6. Wiring Diagram

6-1. Wiring Diagram - Main Board

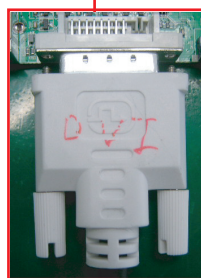
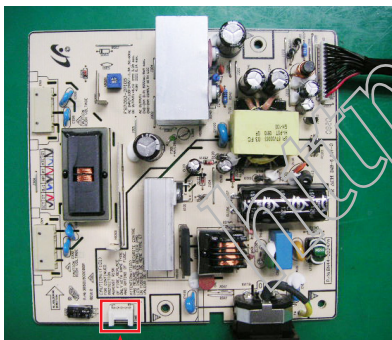


6-2. Wiring Diagram - IP Board

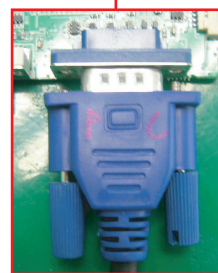
LVDS Connector
(Connect to Panel)



Function Connector
(Connect to IP-Board)



DVI Connector
(Connect to PC)



RGB Connector
(Connect to PC)

6-3. Connector Functions

Connector	Functions
CN101 ↔ CN600	Supplies 5V from the power board to the main board and transmits the PWM output from the power board to the inverter. *When a problem occurs: The No Power and Blank Screen errors may occur.
CN1 ~ CN4 In	Transmits the lamp current (6mA ~ 7mA) generated in the inverter to the lamp of the panel. * When a problem occurs: The Blank Screen error may occur.
CN102	Transmits the input power of 90 to 263V to the power board. * When a problem occurs: The No Power error may occur.
CN101	Connects the function board. * When a problem occurs: The No LED screen and Function failure errors may occur.
CN102	VGA signal input terminal * When a problem occurs: The No RGB output error may occur.
CN400	Transmits the LVDS signals from the main board to the panel. * When a problem occurs: The Blank screen and No Power errors may occur.

6-4. Cables

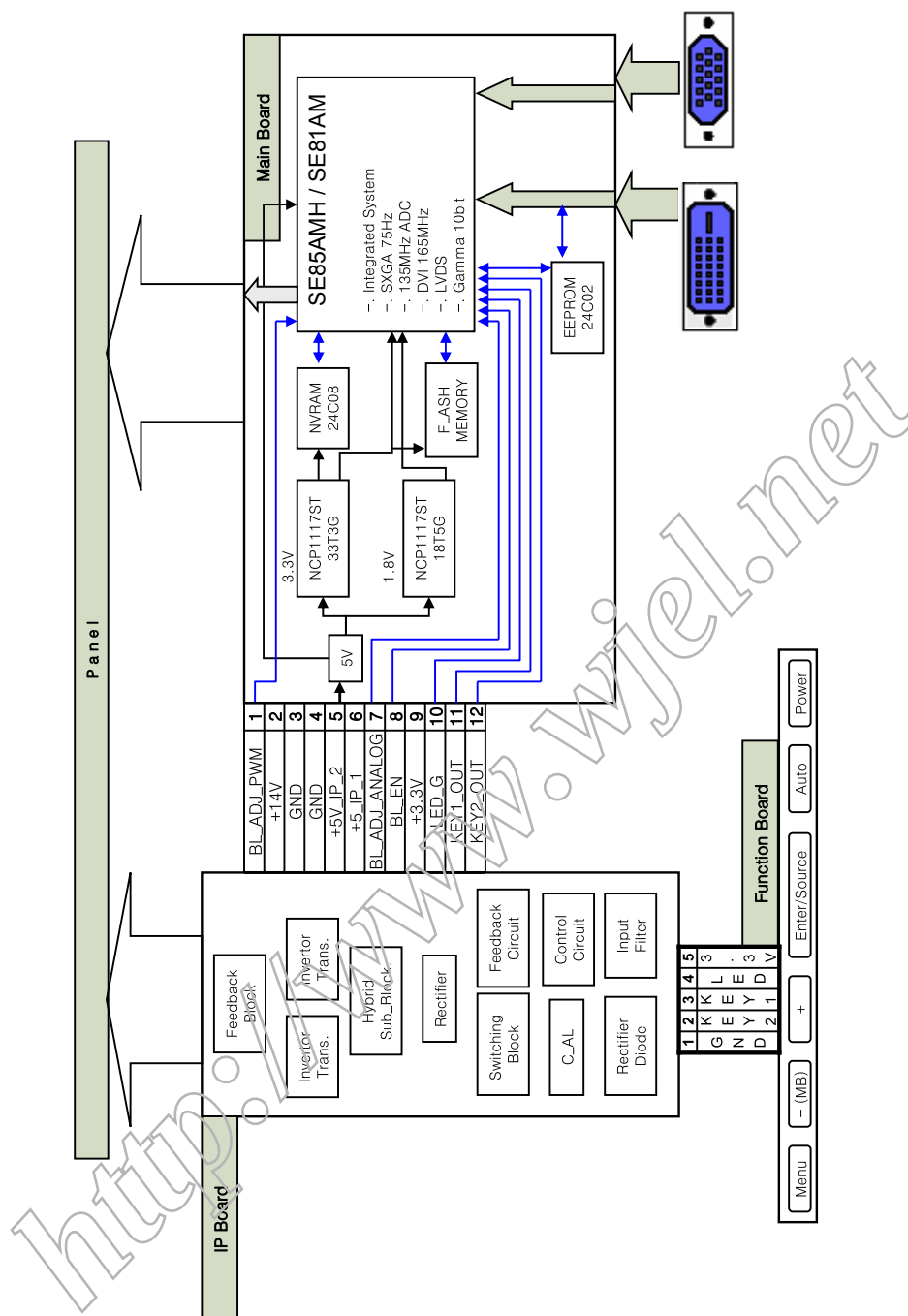
Use	LVDS 30P FFC cable
Code	BN39-00799B
Photo	

Memo

<http://www.wjel.net>

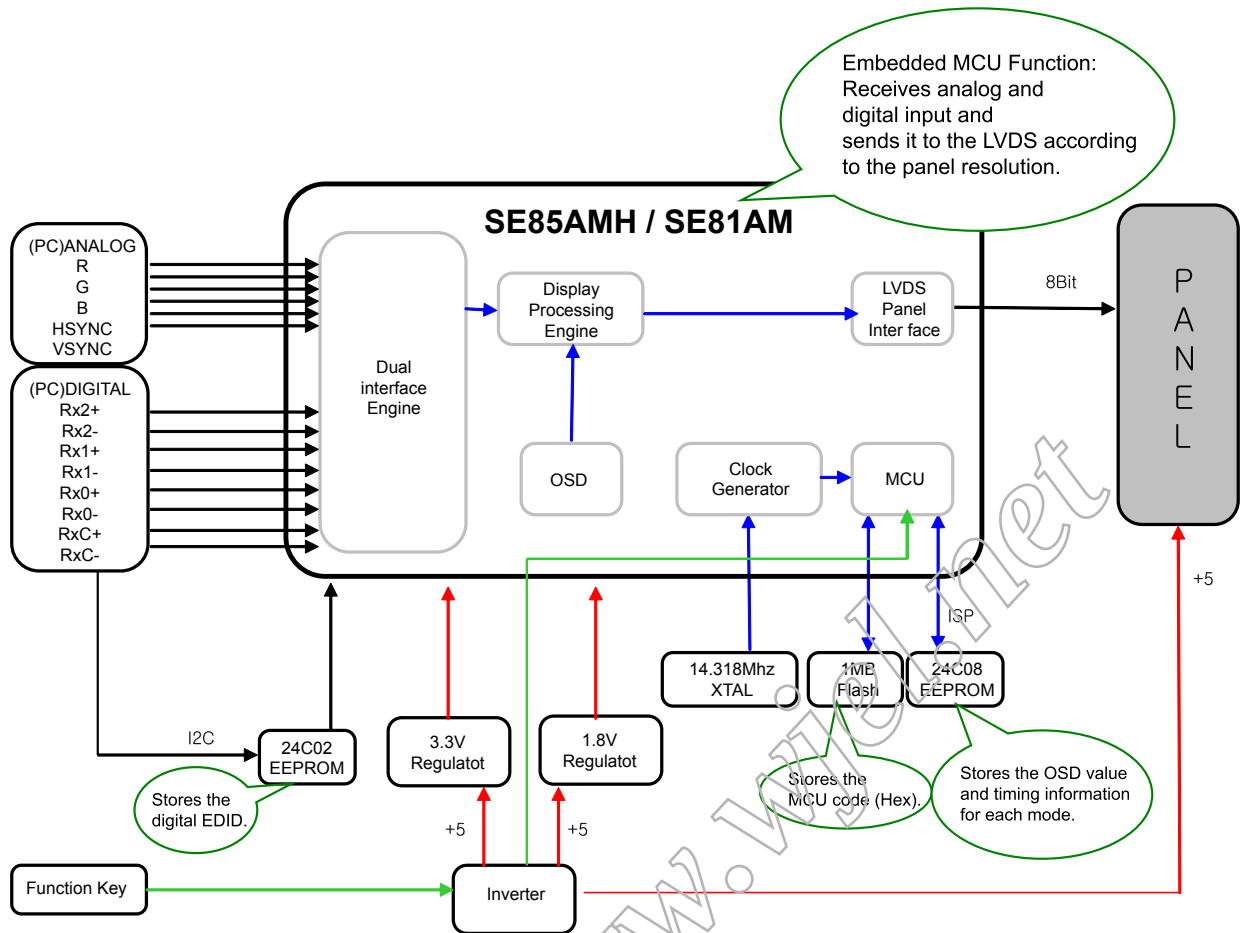
7. Schematic Diagram

7-1. Circuit Descriptions

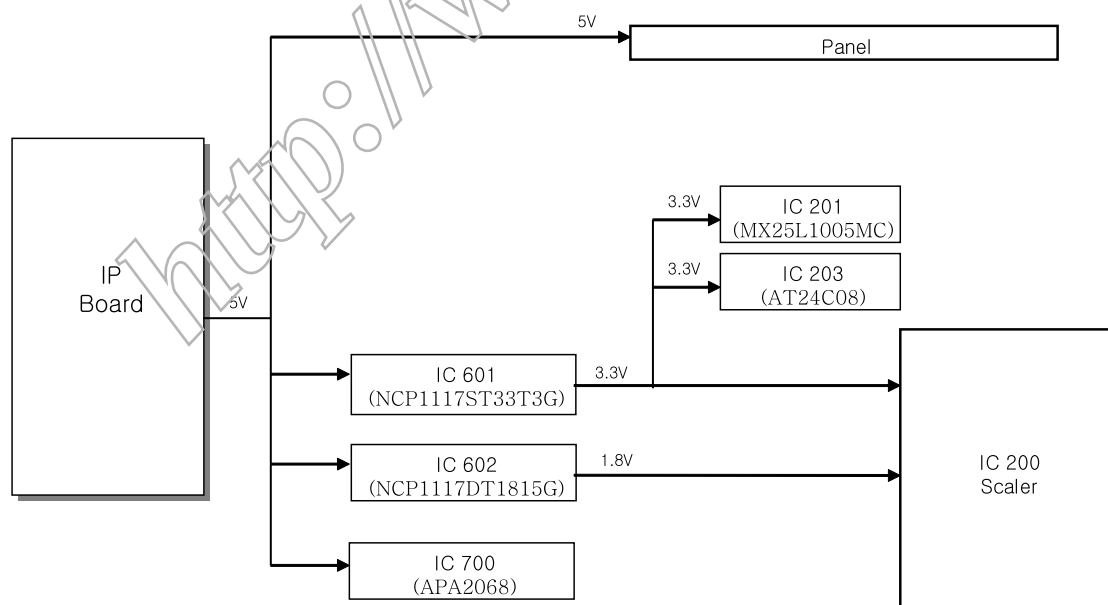


Location	Function	Remark
Scaler IC200	Besides the ADC, LVDS, and scaling part, an MCU is embedded as well. All of them are integrated into one chip.	SE85AMH / SE81AM
Flash Memory IC201	Stores the MCU program embedded in the scaler. It is of a flash type and rewritable.	MX25L1005MC
IC203	Stores the OSD and various timing values.	24C08
IC202	The memory to which DIGITAL DDC data is input	24C02
Regulator	An IC that receives DC voltage inputs. It is used in circuits that stabilize the DC voltage.	NCP1117DT18T5G NCP1117ST33T3G

7-2. Schematic Diagrams (Scaler Part)

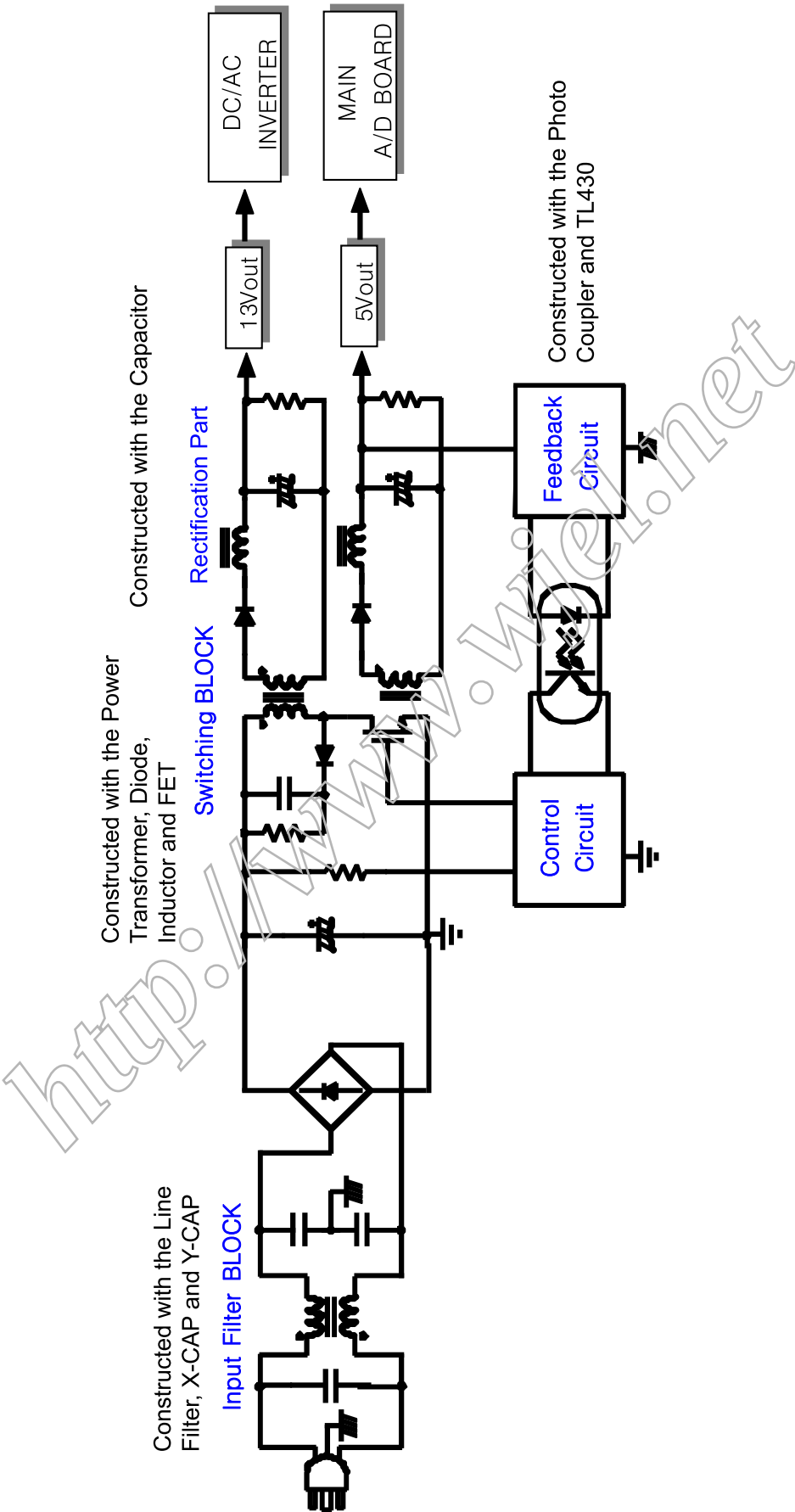


7-3. Schematic Diagrams (Power Flowchart)

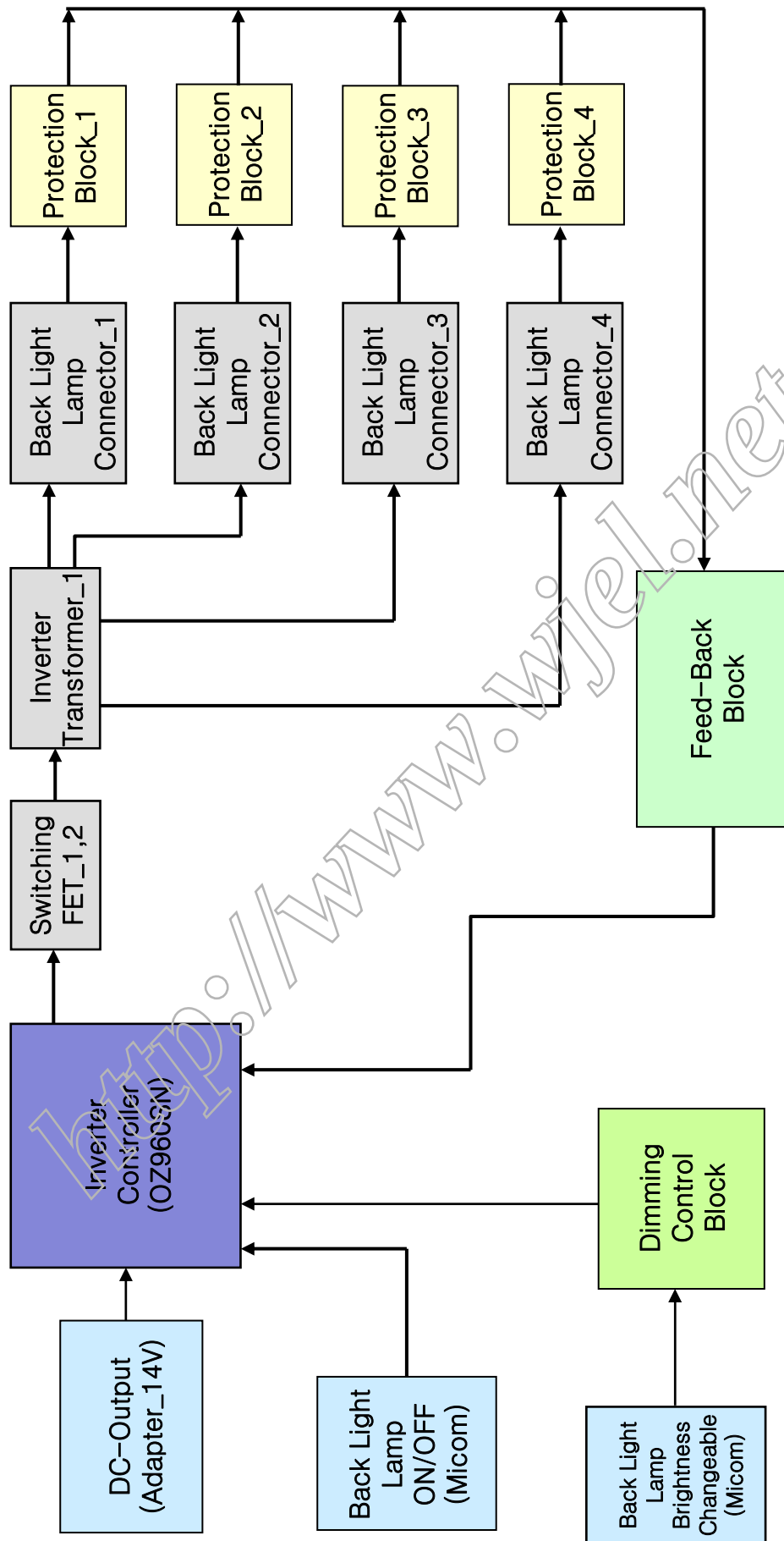


7-4. Schematic Diagrams (IP Board)

■ SMPS Part



■ Inverter Part



Memo

<http://www.wjel.net>