

COLOR MONITOR SERVICE MANUAL

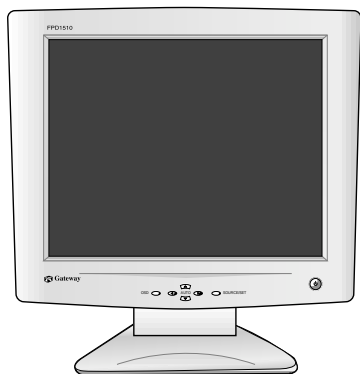
CHASSIS NO. : CL-27

FACTORY MODEL: LG56AH

MODEL: FPD1510

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT Color LCD Module
Size	: 352.0(H) x 263.5(V) x 14.0(T)
Pixel Pitch	: 0.300mm x 0.300mm
Color Depth	: 16,2M colors
Active Video Area	: 15.1inch (307.2mm x 230.4mm diagonal)
Surface Treatment	: Anti-Glare, Hard Coating (3H)
Backlight Unit	: Two-CCFL (Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left	: 60° typ., 60° min.
Right	: 60° typ., 60° min.
Top	: 45° typ., 45° min.
Bottom	: 45° typ., 45° min.

2-2. Luminance : 250 cd/m² typ.

2-3. Contrast Ratio : 300 typ.

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

- 1) Type : Separate Sync. (Horizontal & Vertical)
- 2) Input Voltage Level: Low=0~0.8V, High=2.1~5.5V
- 3) Sync Polarity : Positive or Negative

3-2. Video Input Signal

- 1) Type : R, G, B Analog
- 2) Voltage Level : 0~0.714 V
 - a) Color 0, 0 : 0 Vp-p
 - b) Color 7, 0 : 0.467 Vp-p
 - c) Color 15, 0 : 0.714 Vp-p
- 3) Input Impedance : 75 Ω

3-3. Operating Frequency

Horizontal	: 31 ~ 61kHz
Vertical	: 56 ~ 75Hz

4. POWER SUPPLY

4-1. Power Adaptor

Input	: AC 100~240V, 50/60Hz 1.2A
Output	: DC 12V $\overline{\text{---}}$ 3.0A

4-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 30 W	GREEN
STAND-BY	OFF/ON	OFF	less than 5 W	AMBER
SUSPEND	ON/OFF	OFF	less than 5 W	AMBER
DPM OFF	OFF/OFF	OFF	less than 5 W	AMBER
POWER OFF	-	-	less than 5 W	OFF

5. ENVIRONMENT

- 5-1. Operating Temperature: 10°C~35°C (50°F~95°F)
(Ambient)
- 5-2. Relative Humidity : 10%~80%
(Non-condensing)
- 5-3. MTBF : 50,000 Hours (Min.)

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 389mm (15.3")
Depth	: 205mm (8.1")
Height	: 392mm (15.4")

7. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 4.8kg (10.6 lbs)
Gross Weight	: 7.0kg (15.4 lbs)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. These parts are marked  on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from Gate Way. or you will void the original parts and labor guarantee.

WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

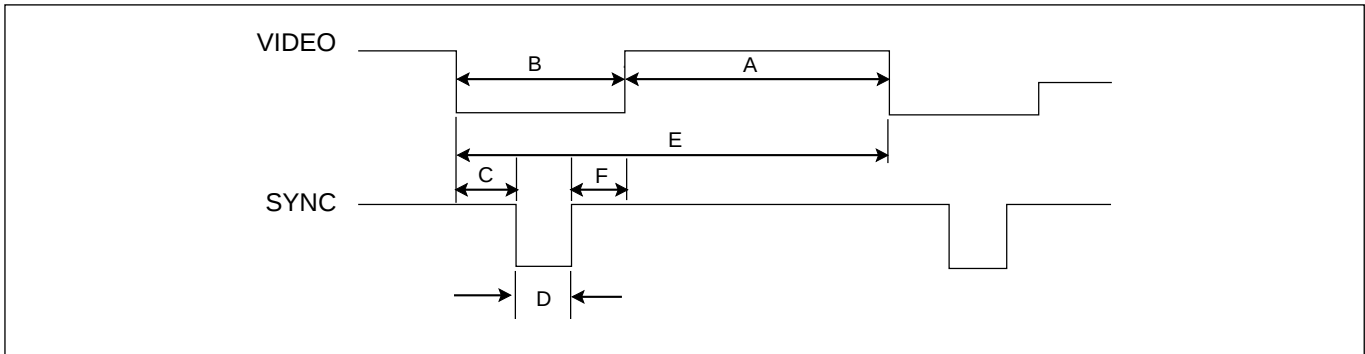
TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

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

CAUTION

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

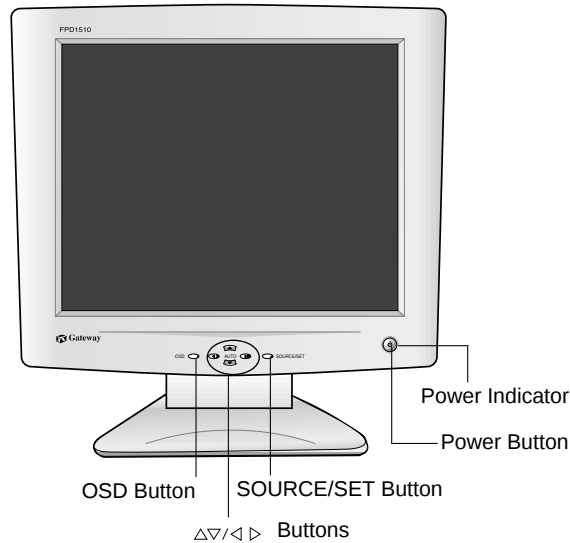
TIMING CHART



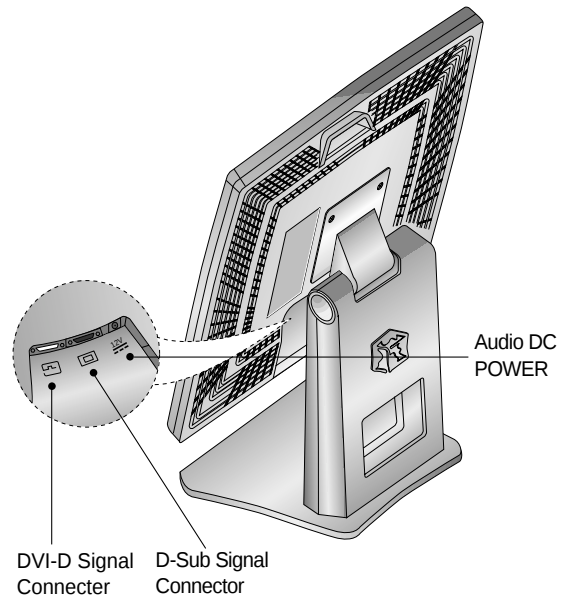
MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Blanking Time (B)	Sync Duration (D)	Back Porch (F)	Front Porch (C)	Resolution
1	H (Pixels)	+	25.175	31.468 KHz	800	640	160	96	48	16	640 x 350
	V (Lines)	-		70.0 Hz	449	350	99	2	60	37	
2	H (Pixels)	-	28.322	31.468 KHz	900	720	180	108	55	17	720 x 400 (TEXT)
	V (Lines)	+		70.0 Hz	449	400	49	2	34	13	
3	H (Pixels)	-	25.175	31.469 KHz	800	640	160	96	48	16	640 x 480
	V (Lines)	-		60.0 Hz	525	480	45	2	33	10	
4	H (Pixels)	-	30.24	35.0 KHz	864	640	224	64	96	64	640 x 480
	V (Lines)	-		66.67 Hz	525	480	45	3	39	3	
5	H (Pixels)	-	31.5	37.681 KHz	832	640	192	40	128	24	640 x 480
	V (Lines)	-		72.8 Hz	520	480	40	3	28	9	
6	H (Pixels)	-	31.5	37.50 KHz	840	640	200	64	120	16	640 x 480
	V (Lines)	-		75 Hz	500	480	20	3	16	1	
7	H (Pixels)	+	36.0	35.156KHz	1024	800	224	72	128	24	800 x 600
	V (Lines)	+		56.25 Hz	625	600	25	2	22	1	
8	H (Pixels)	+	40.0	37.879 KHz	1056	800	256	128	88	40	800 x 600
	V (Lines)	+		60.3 Hz	628	600	28	4	23	1	
9	H (Pixels)	+	50.0	48.077 KHz	1040	800	240	120	64	56	800 x 600
	V (Lines)	+		72.188 Hz	666	600	66	6	23	37	
10	H (Pixels)	+	49.5	46.875 KHz	1056	800	256	80	160	16	800 x 600
	V (Lines)	+		75.0 Hz	625	600	25	3	21	1	
11	H (Pixels)	-	57.2832	49.725 KHz	1152	832	320	64	224	32	832 x 624 (MAC)
	V (Lines)	-		74.55 Hz	667	624	43	3	39	1	
12	H (Pixels)	-	65	48.363 KHz	1344	1024	320	136	160	24	1024 x 768
	V (Lines)	-		60.0 Hz	806	768	38	6	29	3	
13	H (Pixels)	-	75	56.476 KHz	1328	1024	304	136	144	24	1024 x 768
	V (Lines)	-		70.0 Hz	806	768	38	6	29	3	
14	H (Pixels)	+	78.75	60.023 KHz	1312	1024	288	96	176	16	1024 x 768
	V (Lines)	+		75.0 Hz	800	768	32	3	28	1	

OPERATING INSTRUCTIONS

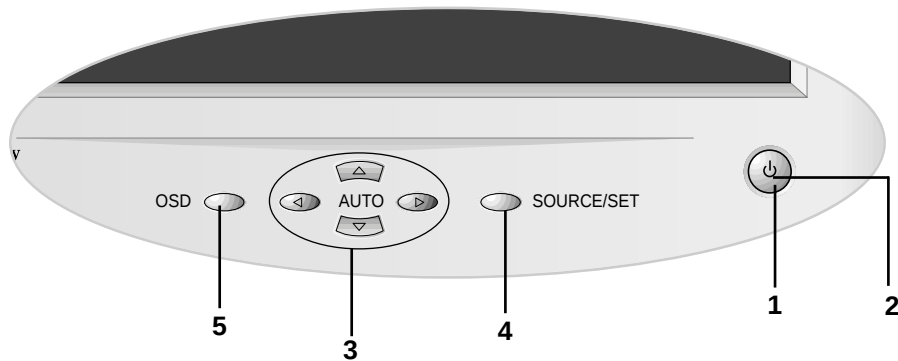
FRONT VIEW



REAR VIEW



Front Control Panel



1. Power ON/OFF Button

Use this button to turn the monitor on or off.

2. Power Indicator

This indicator lights up green when the monitor operates normally; in DPMS (Energy Saving) mode, - stand-by, suspend, or power off mode - its color changes to amber.

3. △▽/◀▶ Button

Use these buttons to choose or adjust items in the on screen display.

4. SOURCE/SET Button

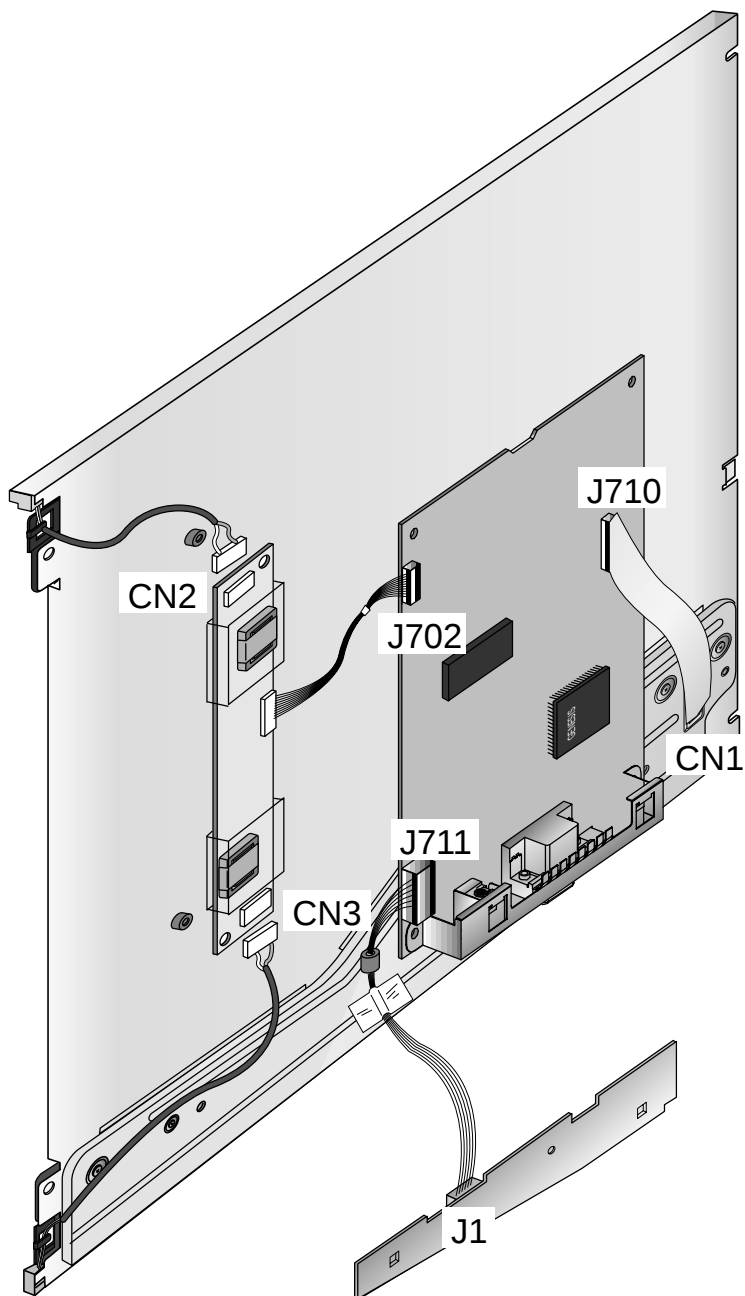
Use this button to make Dsub or DVI connector active.

This feature is used when two computers are connected to the monitor. The default setting is Dsub.

Use this button to enter a selection in the on screen display.

5. OSD Button

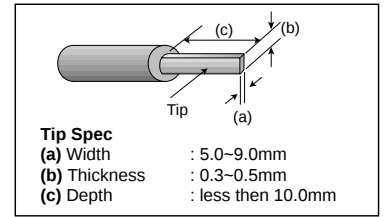
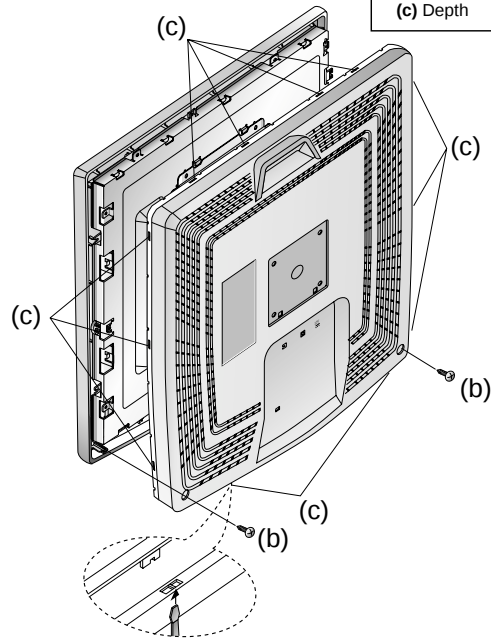
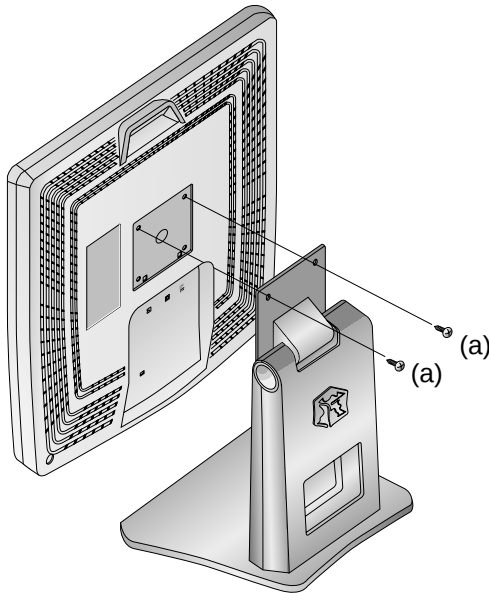
Use this button to enter or exit the on screen display.



DISASSEMBLY

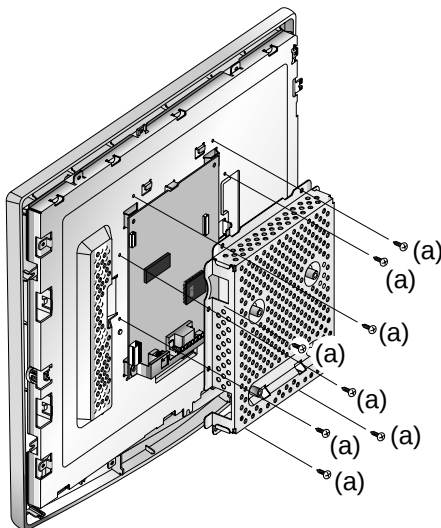
1. TILT/SWIVEL & BACK COVER REMOVAL

- (1) Remove two screws (a).
- (2) Remove the Tilt/swivel.
- (3) Remove two screws (b) from the Back Cover.
- (4) Release twelve latches (c).
- (5) Remove the Back Cover from the Bottom Side.



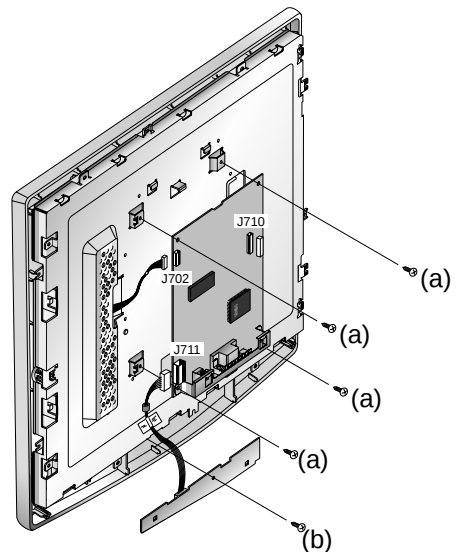
2. METAL REAR ASSEMBLY REMOVAL

- (1) Remove eight screws (a).
- (2) Remove the Metal rear Ass'y.



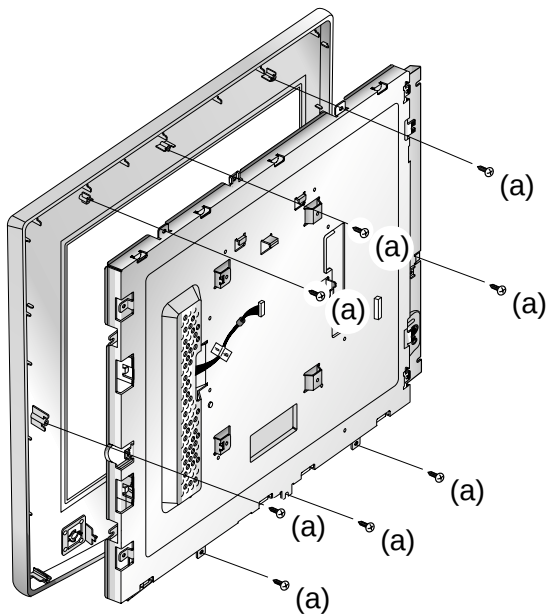
3. CONTROL, MAIN PCB ASSEMBLY REMOVAL

- (1) Disconnect J710, J711 and J702.
- (2) Remove four screws (a).
- (3) Remove the Main PCB Ass'y.
- (4) Remove the screw (b).
- (5) Remove the Control PCB Ass'y.



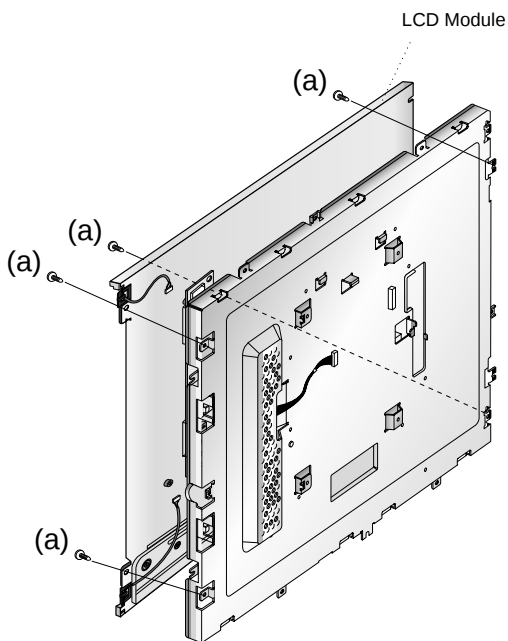
4. MAIN FRAME ASSEMBLY REMOVAL

- (1) Remove eight screws (a).
- (2) Remove Main Frame Ass'y



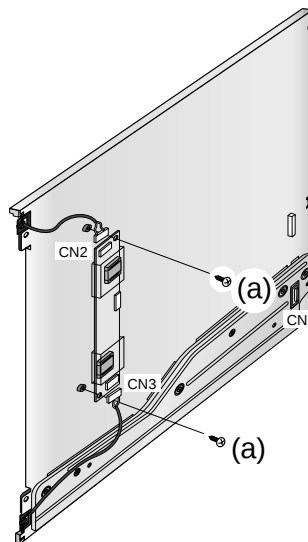
5. LCD MODULE REMOVAL

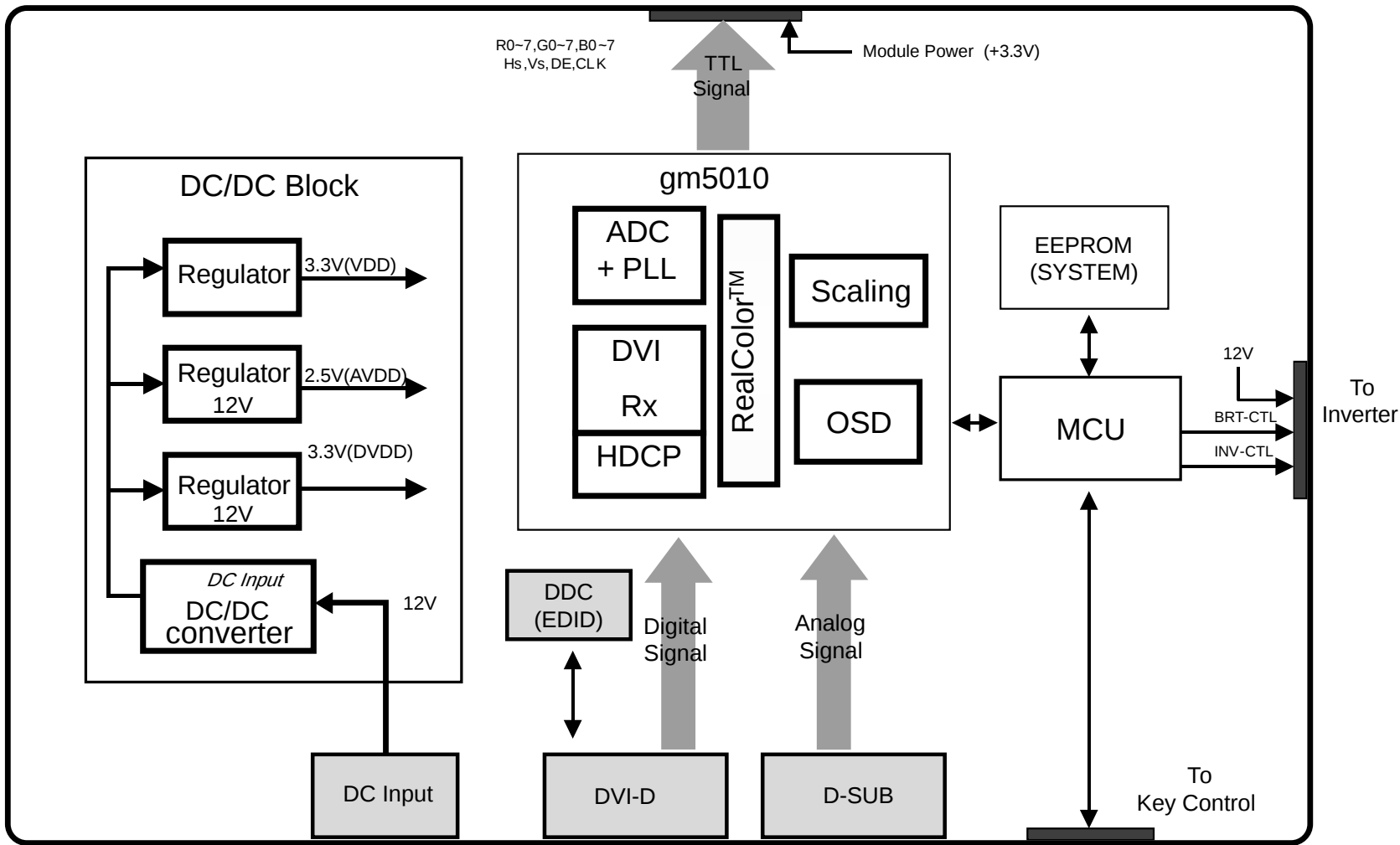
- (1) Remove four screws (a).
- (2) Remove the LCD Module.

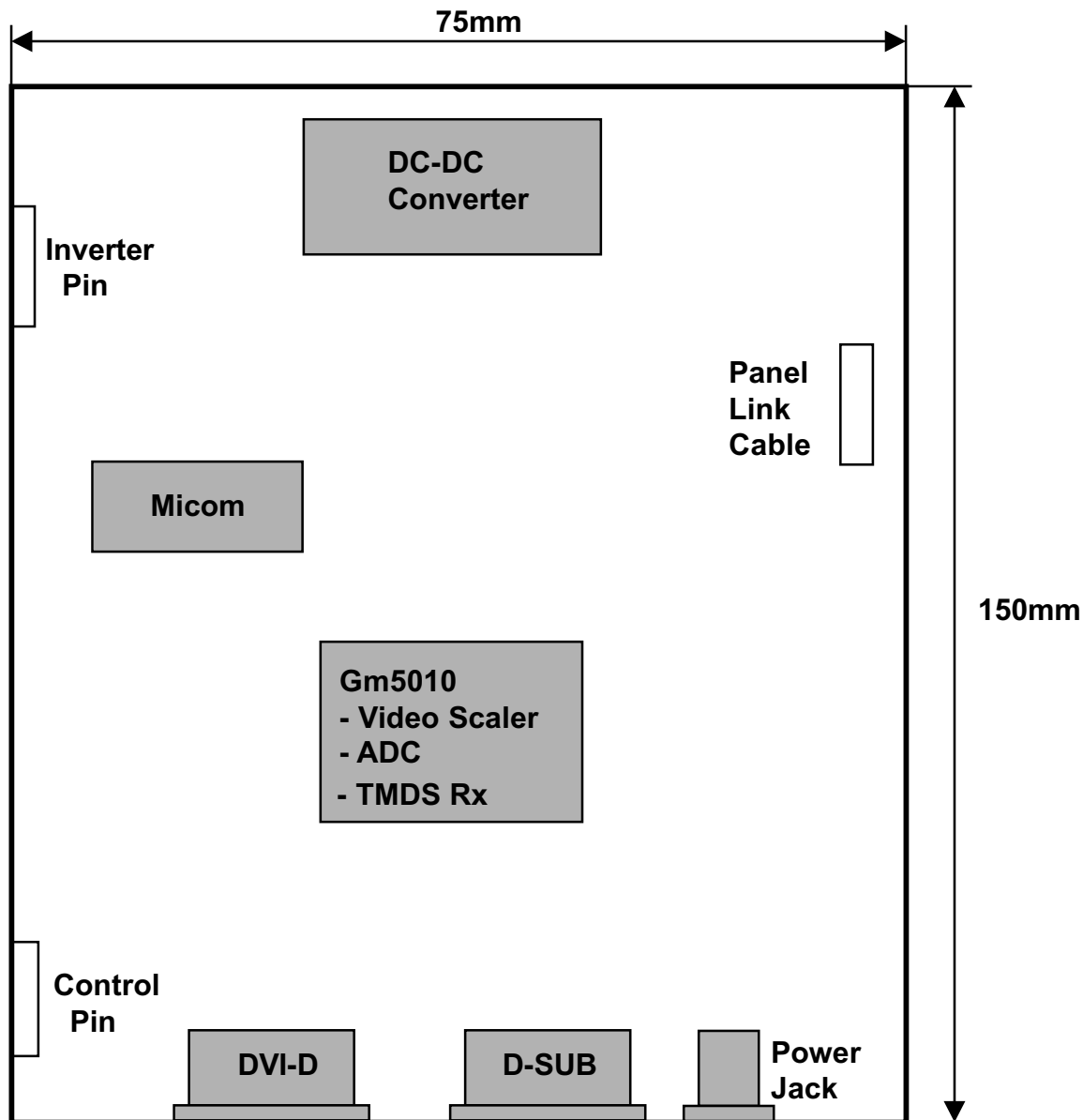


6. INVERTER REMOVAL

- (1) Disconnect CN2, CN3.
- (2) Remove two screws (a).
- (3) Remove the INVERTER.







DESCRIPTION OF BLOCK DIAGRAM

1. Input signal switching part.

There are two inputs which are analog and digital input.
They come from each 15 pin D-Sub and 24 pin DVI-D connector.

2. Pre-amp/ ADC / PLL / Video Controller.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.

The pixel clock for each mode is generated by the PLL.

The range of the pixel clock is from 25MHz to 78.75MHz.

The Scaler gets the video signal converted analog to digital, interpolates input to 1024 X 768 resolution signal and outputs 8-bit R, G, B signal to LCD module.

Especially pre-amp / ADC / Video controller are merged to one chip 'Gm5010' by Genesis.

3. Power Part.

This part consists of the DC/DC converter and two 3.3V and one 2.5 regulators .

The DC/DC converter converts 12V to be entered power adapter to 5V. 5V, output of DC/DC converter, is supplied to the Micom and 3.3V/2.5V regulators.

The output voltage of 3.3V / 2.5V regulators flow to IC of each part.

4. MICOM Part.

This part consists of EEPROM IC which stores control data, Reset IC and the Micom.

The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.

The controlled data of each modes is stored in EEPROM.

5. Inverter

The inverter converts from DC12V to AC 700V and operate back-light lamp of module.

ADJUSTMENT

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several minor adjustment may be required.

Adjustment should be following procedure and after warming up for a minimum of 10 minutes.

Alignment appliances and tools.

- IBM Compatible PC
- Programmable Signal Generator.
(eg. VG-819 made by Astrodesign Co.)
- E(E)PROM with each mode data saved.
- Alignment Adapter and Software.

1. Adjustment for Factory Preset Mode

- 1) Run alignment program for FPD1510 on the IBM compatible PC.
- 2) Select EEPROM all clear command and Enter.
- 3) Display cross hatch pattern at Mode 1.
- 4) Select COMMAND PRESET START command.
- 5) Select FOS DEFAULT command and Enter.
- 6) Press "Y" key, it will automatically save all FOS data to EEPROM.

2. Adjustment for White Balance

- 1) Display color 0,0 pattern at Mode 13.
- 2) Set External Bright to MAX position and Contrast to MAX Position.
- 3) Select PRESET START → BIAS CAL command and Enter.
- 4) No attempt to manually adjust, BIAS data is automatically adjusted and saved to the EEPROM.
- 5) Display color 15,0 pattern at Mode 13.
- 6) Select DRIVE CAL command and Enter.
- 7) Color 1 (9300K) and Color 2 (6500K) are automatically adjusted and saved to the EEPROM.
- 8) Select PRESET EXIT command and Enter.

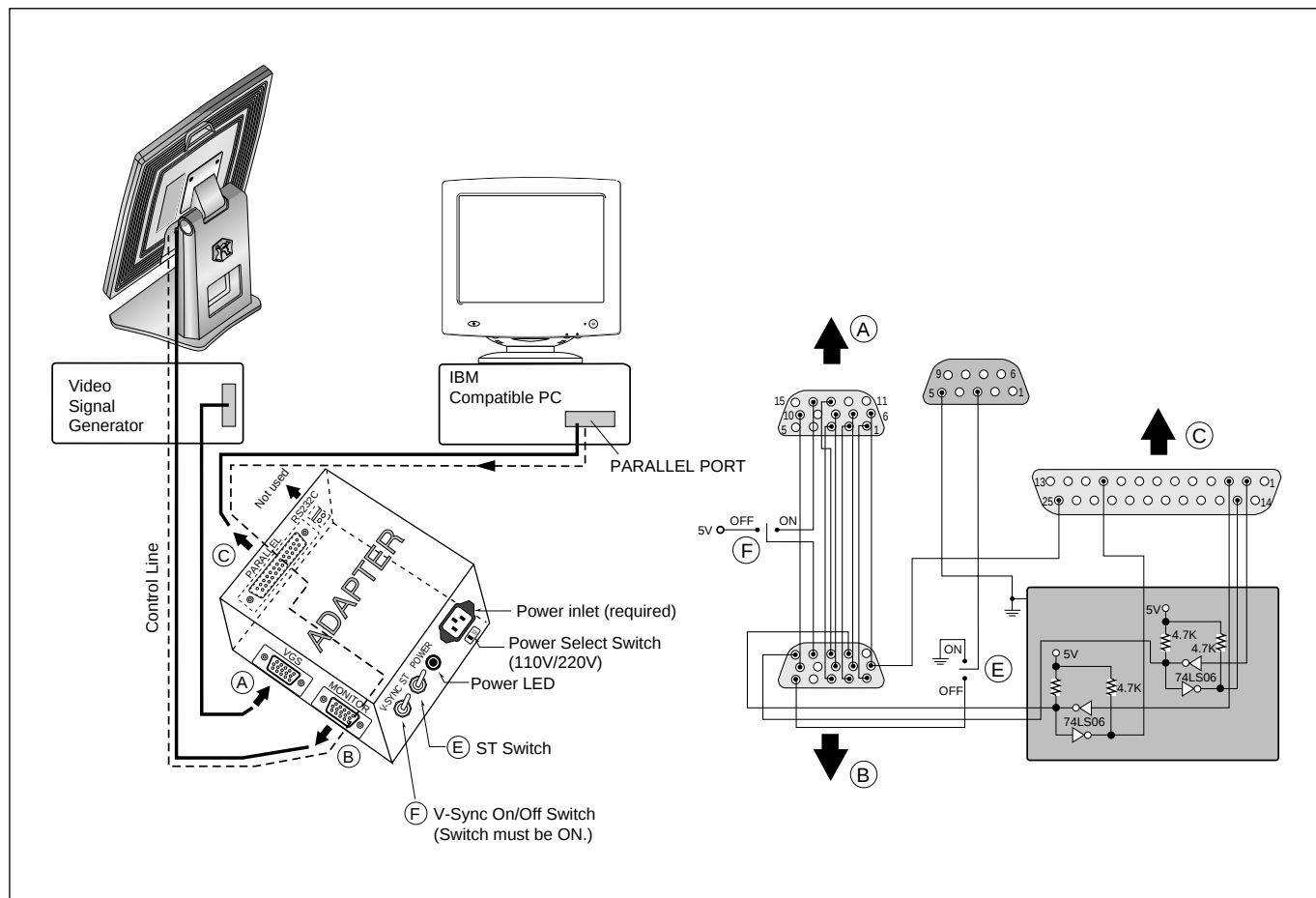
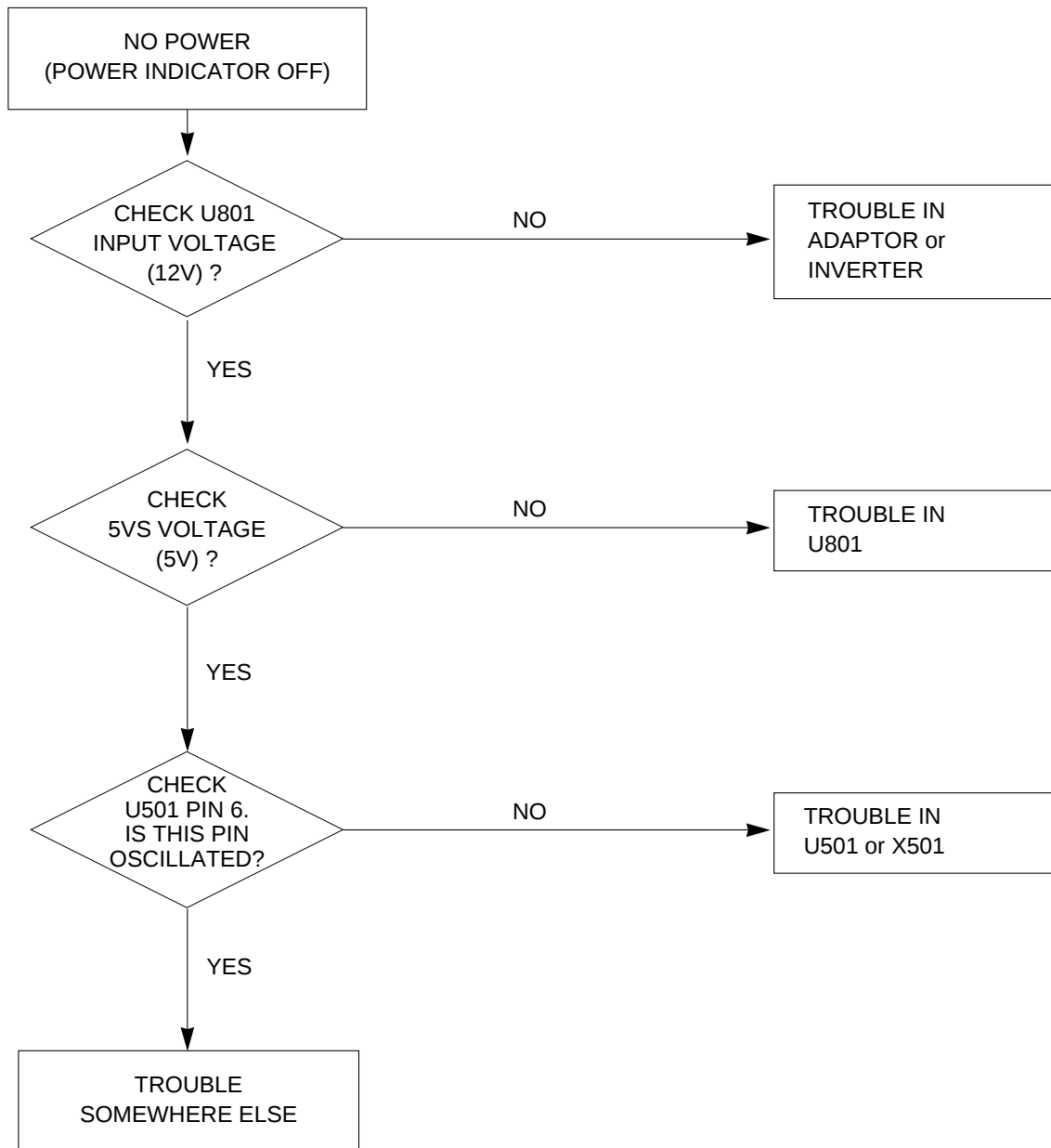


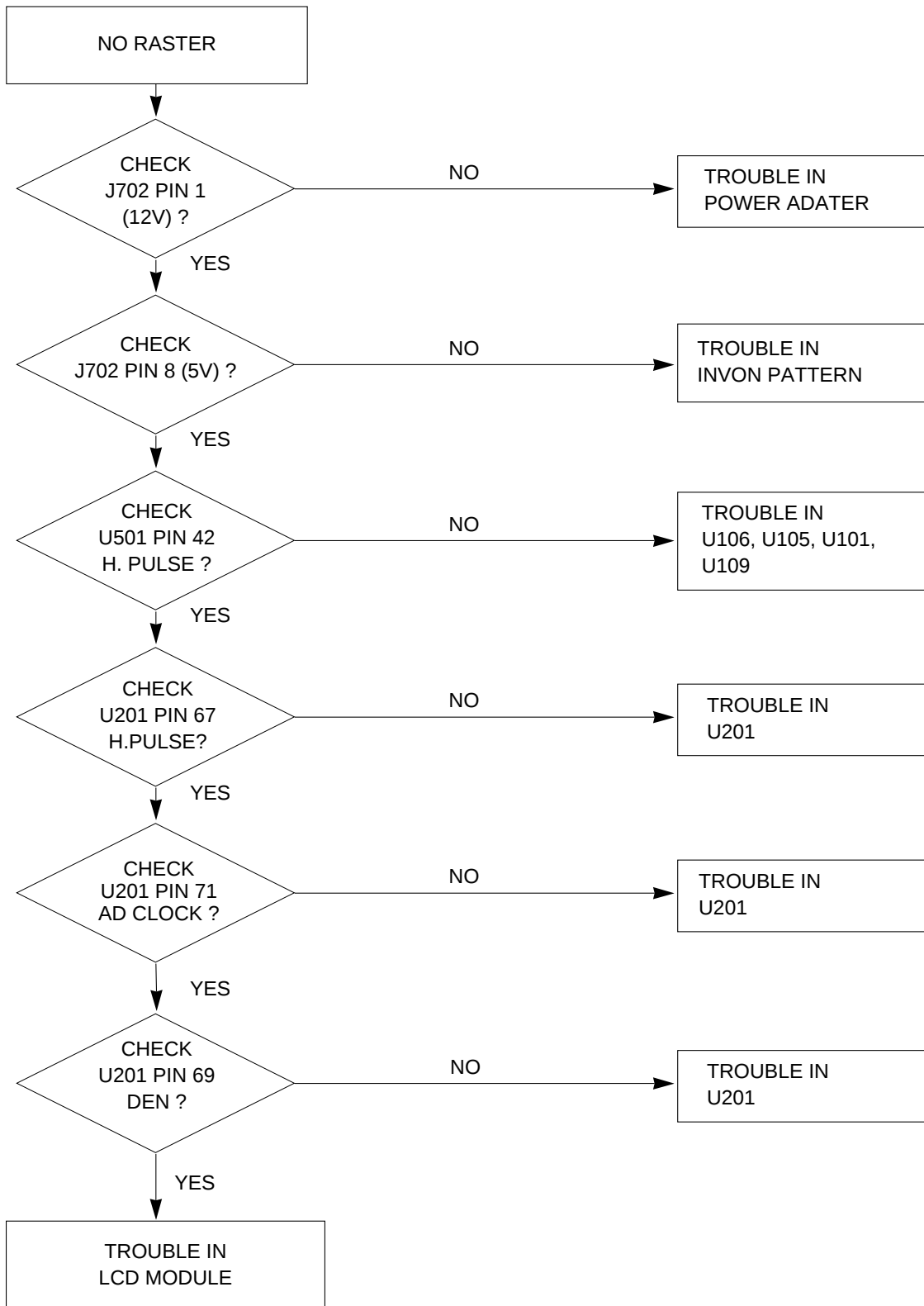
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

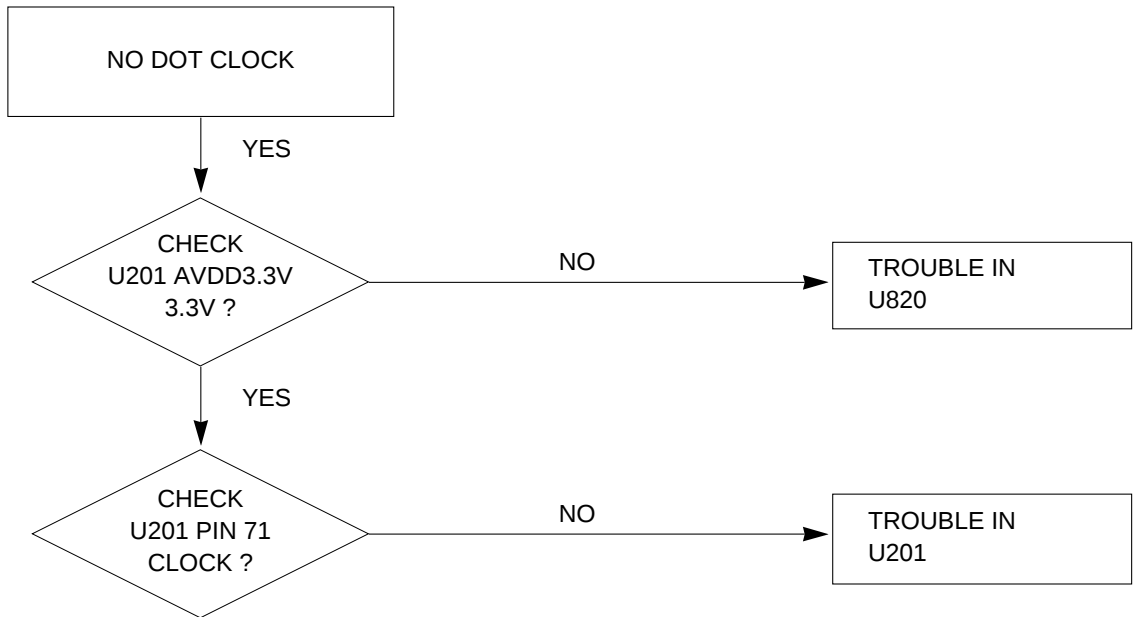
1. NO POWER



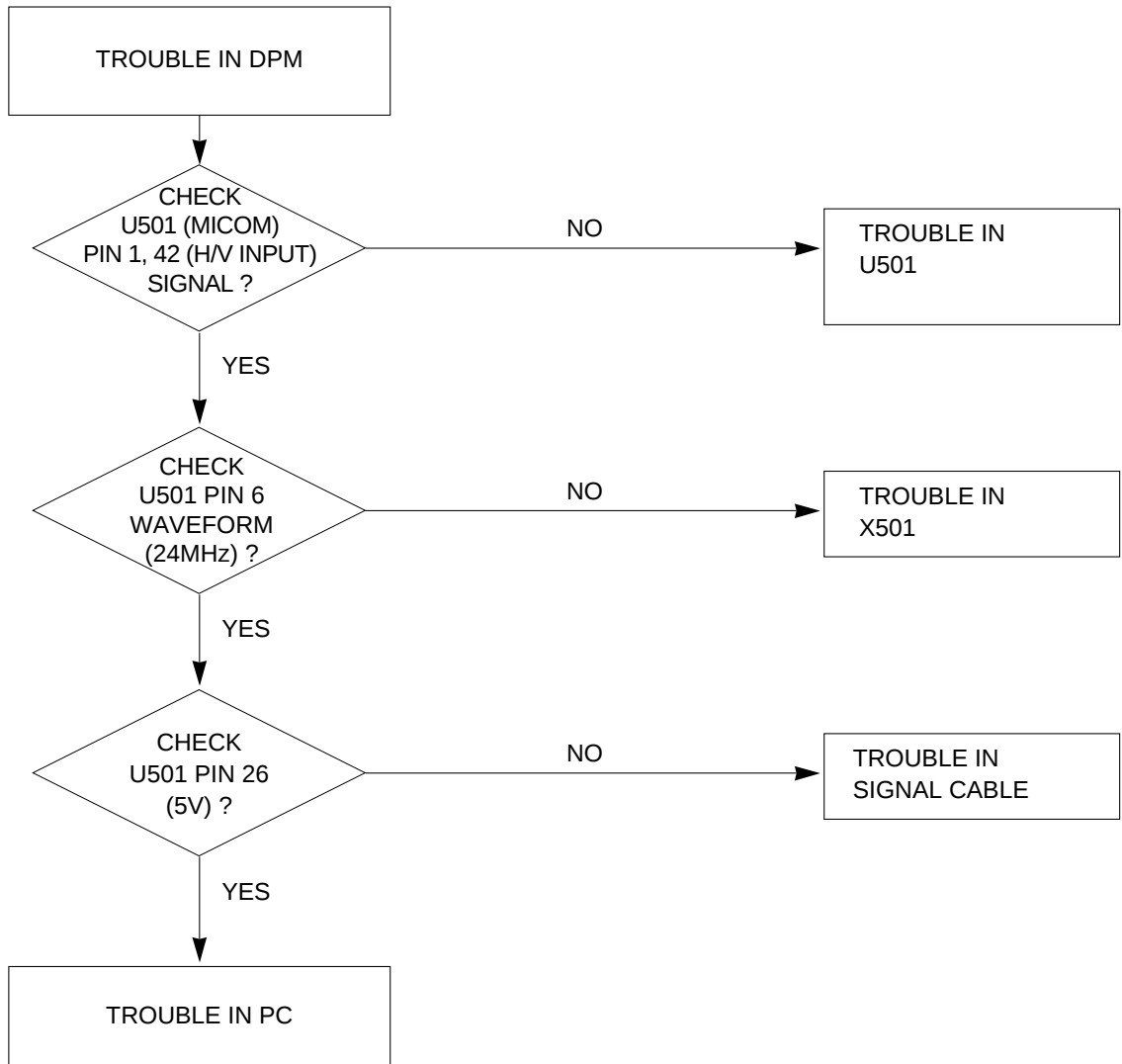
2. NO RASTER

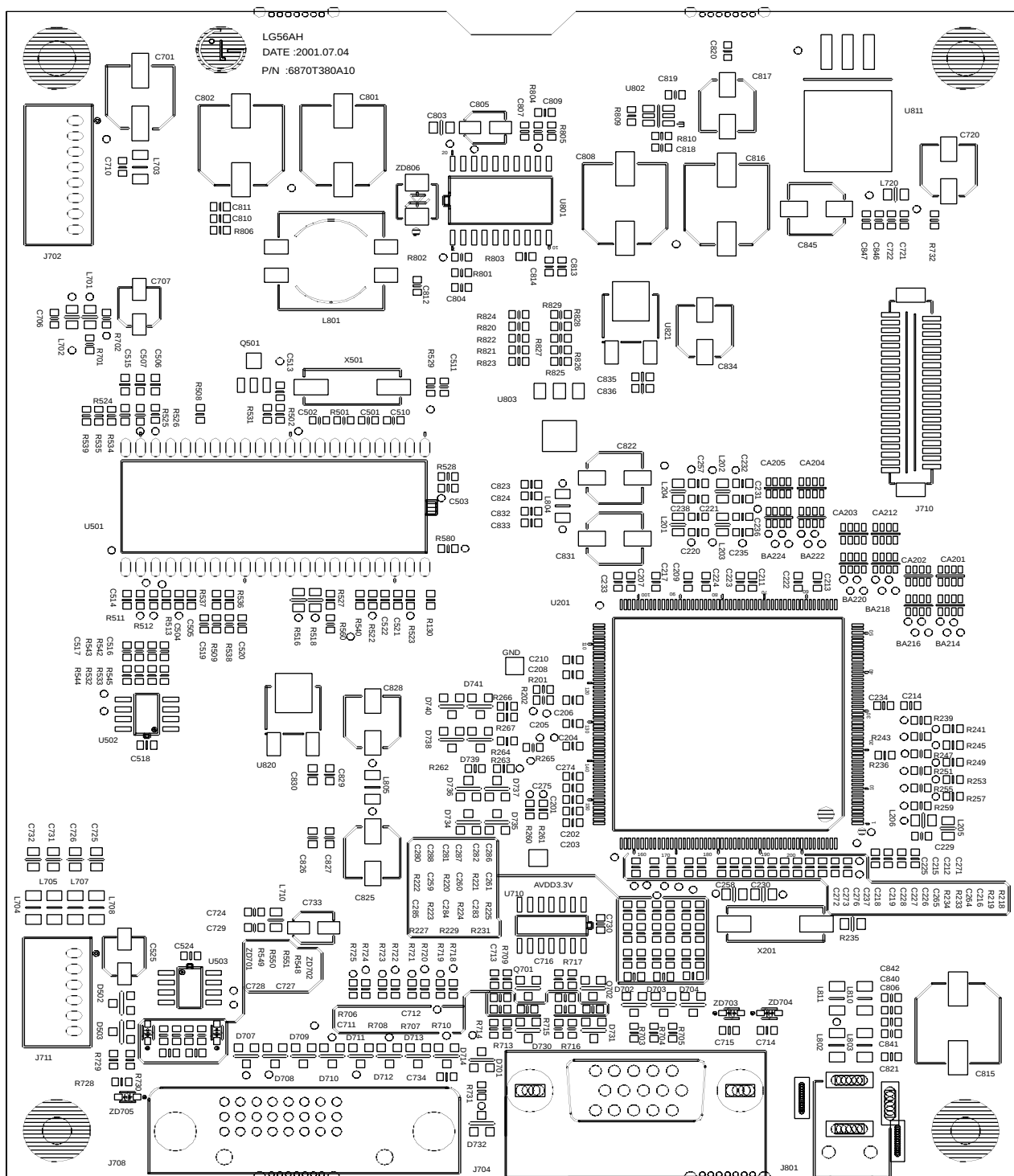


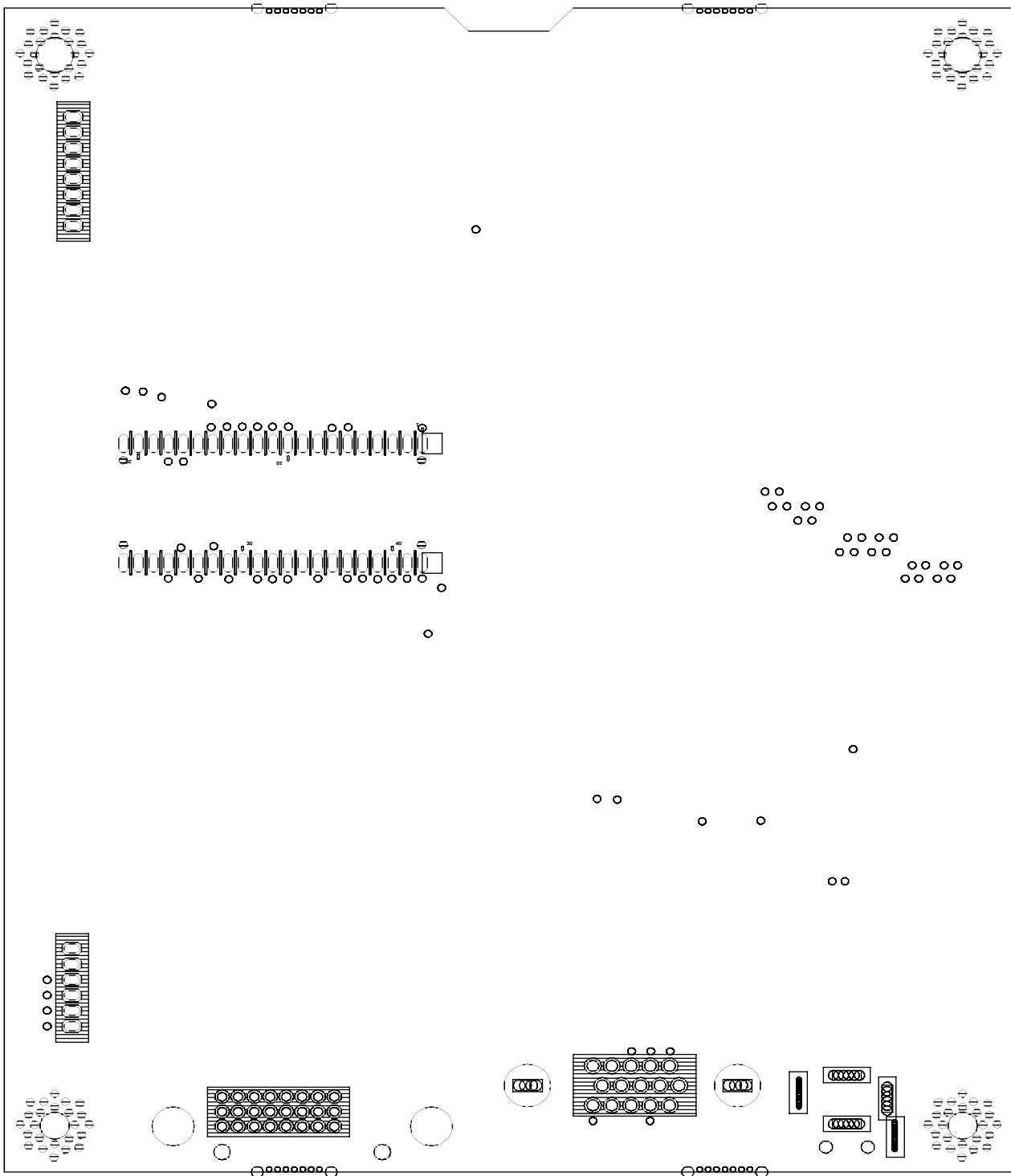
3. NO CLOCK (CLOCK GENERATOR)



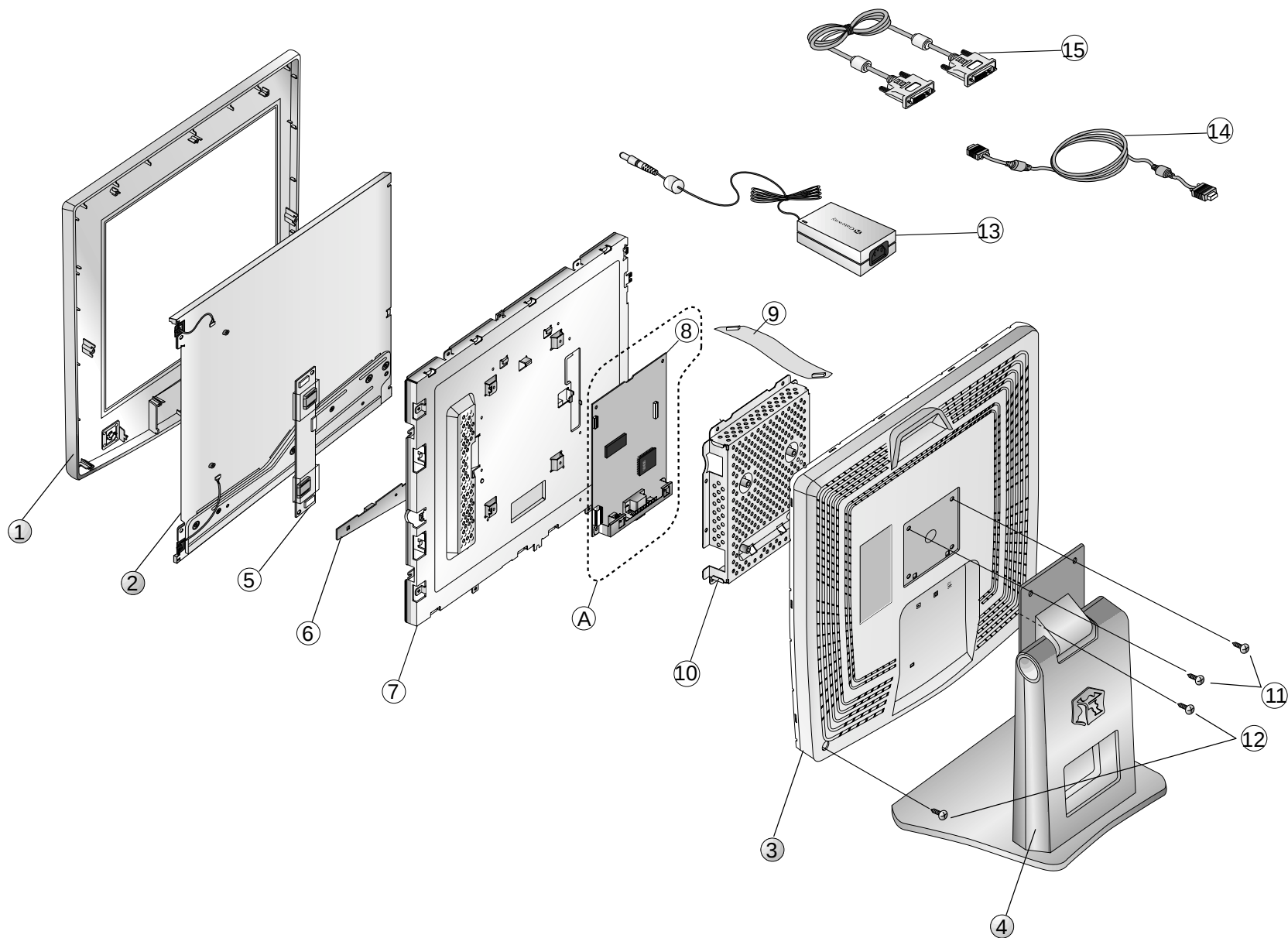
4. TROUBLE IN DPM







EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKL024A	CABINET ASSY LG56AH G/WAY >PC+ABS< 12446B
2	6304FLP001A	LCD(LIQUID CRYSTAL DISPLAY), LM151X05-B3 LG PHILPS TFT COLOR 15.1
3	3809TKL017A	BACK COVER ASSY, LG56AH >PC+ABS< 12446B
4	3043TKK078A	TILT SWIVEL ASSY, LG56AH >PC+ABS< 12446B
5	6633TZA003H	INVERTER ASSEMBLY, SAMSUNG LG1510 LG56AH
6	6871TST245A	PWB(PCB) ASSEMBLY,SUB, LG56AH XAGC G/WAY CONTROL TOTAL
7	4951TKS074A	METAL ASSEMBLY, FRAME LG56AH
8	6871TMT254A	PWB(PCB) ASSEMBLY,MAIN, LG56AH XAGC G/WAY MAIN TOTAL
9	6631T11011E	CONNECTOR ASSEMBLY, 41P H-H 178MM FPC F219-014B CAREER LG56AH
10	4950TKK262A	METAL REAR LB680A
11	332-105F	SCREW, PVS+4*10(MSWR/FZMW)
12	332-068T	SCREW, PPB+3*10 (MSWR/FZMW1)
13	6634TBZ016B	ADPTER, AC-DC, ADP-36UB DELTA 12V 3.0A FOR G/WAY
14	6866TD9001L	CABLE,D-SUB, UL 2990-9C(7.5) DT 1870MM COOL GRAY 3C LB680A DM
15	6866TDV004F	CABLE,DVI, UL20276 DT 2000MM PEARL WH LG562F DM
A	3313T15074A	MAIN TOTAL ASSEMBLY, LG56AH G/WAY MAIN TOTAL ASSY

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

* NOTE : **S** SAFETY Mark 
AL ALTERNATIVE PARTS

MODEL: FPD1510				DATE: 2001. 7. 10.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITORS				
		C201	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C202	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C203	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C204	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C205	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C206	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C207	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C208	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C209	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C210	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C211	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C212	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C213	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C214	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C215	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C216	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C217	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C218	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C219	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C220	OCC330CK41A	33PF 1608 50V 5% R/TP NP0
		C221	OCC330CK41A	33PF 1608 50V 5% R/TP NP0
		C222	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C223	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C224	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C225	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C226	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C227	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C228	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C229	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C230	OCH6120K416	12PF 50V J NP0 2012 R/TP
		C231	OCC680CK41A	68PF 1608 50V 5% R/TP NP0
		C232	OCC680CK41A	68PF 1608 50V 5% R/TP NP0
		C233	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C234	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C235	OCC680CK41A	68PF 1608 50V 5% R/TP NP0
		C236	OCC680CK41A	68PF 1608 50V 5% R/TP NP0
		C237	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C258	OCH6120K416	12PF 50V J NP0 2012 R/TP
		C259	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C260	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C261	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C271	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C272	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C273	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C274	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C275	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C276	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C280	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C281	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C282	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C501	OCC330CK41A	33PF 1608 50V 5% R/TP NP0
		C502	OCC330CK41A	33PF 1608 50V 5% R/TP NP0

MODEL: FPD1510				DATE: 2001. 7. 10.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C503	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C504	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C505	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C506	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C507	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C510	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C511	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C513	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C514	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C515	OCC470CK41A	47PF 1608 50V 5% R/TP NP0
		C516	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C517	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C518	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C519	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C520	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C521	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C522	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C524	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C525	0CH8106J611	10UF 35V M 85STD(CYL) R/TP
		C701	0CH8107H611	100UF 25V M 85STD(CYL) R/TP
		C706	OCC221CK41A	220PF 1608 50V 5% R/TP NP0
		C707	0CH8106J611	10UF 35V M 85STD(CYL) R/TP
		C710	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C712	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C713	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C714	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C715	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C716	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C720	0CH8476F611	47UF 16V M 85STD(CYL) R/TP
		C721	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C722	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C724	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C727	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C728	OCC101CK41A	100PF 1608 50V 5% R/TP NP0
		C729	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C730	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C733	0CH8106J611	10UF 35V M 85STD(CYL) R/TP
		C734	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C801	0CH8477F611	470UF 16V M 85STD(CYL) R/TP
		C802	0CH8477F611	470UF 16V M 85STD(CYL) R/TP
		C803	0CH3474H946	0.47UF 25V Z F(Y5V) 2012 R/TP
		C804	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y5P)
		C805	0CH8105K611	1UF 50V M 85STD(CYL) R/TP
		C806	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C807	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y5P)
		C808	0CH8477F611	470UF 16V M 85STD(CYL) R/TP
		C809	0CK223CK51A	0.022UF 1608 50V 10% R/TP B(Y5P)
		C810	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C811	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C812	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C813	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C814	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C815	0CH8477F611	470UF 16V M 85STD(CYL) R/TP
		C816	0CH8477F611	470UF 16V M 85STD(CYL) R/TP

MODEL: FPD1510				DATE: 2001. 7. 10.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C817	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C818	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C819	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C820	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C821	OCK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C822	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C823	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C824	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C825	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C826	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C827	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C828	0CZZTAT002B	SVP SANYO 10V 47UF M REEL OS-CON
		C829	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C830	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C831	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C832	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C833	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C834	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C835	OCC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C836	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C840	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C841	OCK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C842	OCK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C845	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD) SMD
		C846	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
		C847	OCK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P)
DIODES				
		D502	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23 30V
		D503	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23 30V
		D701	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D702	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D703	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D704	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D707	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D708	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D709	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D710	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D711	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D712	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D713	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D714	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D730	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D731	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D732	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D734	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D735	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D736	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D737	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D738	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D739	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D740	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		D741	0DS226009AA	KDS226 TP KEC SOT-23 80V 300MA
		ZD701	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 200MW
		ZD702	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 200MW
		ZD703	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 200MW
		ZD704	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 200MW
		ZD705	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 200MW
		ZD806	0DR190309AA	MBRS190T3 TP MOTOROLA 403A-03

MODEL: FPD1510					DATE: 2001. 7. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION					
ICs									
		U201	0IPRPGN002A	GM5010 GENESIS 208P,PQFP TRAY					
		U501	0IZZTSZ134A	42PIN SDIP BK OPT MICOM ASSY					
		U502	0ICS240813B	CAT24WC08J-TE13 8P,SOIC R/TP 8K					
		U503	0ISS524202A	S524C20D21-SCT0 8SOP-225 R/TP EE					
		U710	0ITI7141400T	SN74AC14DR 14,SOP R/TP HEX INVER					
		U801	0ISG497351A	L4973D5.1 SO20 TP 3.5A S/DOWN S/					
		U802	0TF632509AA	FDC6325L TP FAIRCHILD 8V 2.4A SM					
		U803	0IPMGFA003B	RC1117S-2.5 FAIRCHILD SOT-223 R/					
		U811	0IPMGJSJ001A	EZ1086CM-3.3 SEMTECH TO-263 R/TP					
		U820	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULATOR					
		U821	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULATOR					
COILs & COREs									
		L201	6210TCE001P	HB-1S2012-121JT CERATECH 2012MM					
		L202	6210TCE001P	HB-1S2012-121JT CERATECH 2012MM					
		L203	6210TCE001P	HB-1S2012-121JT CERATECH 2012MM					
		L204	6210TCE001P	HB-1S2012-121JT CERATECH 2012MM					
		L205	6210TCE0011	V/C CERATEC R/TP HB-1H2012-221JT					
		L206	6210TCE0011	V/C CERATEC R/TP HB-1H2012-221JT					
		L701	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,L					
		L702	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,L					
		L703	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/T					
		L704	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L705	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L707	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L708	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L710	6210TCE001D	HB-1M2012-601JT CERATEC 2012MM R					
		L720	6210TCE001P	HB-1S2012-121JT CERATECH 2012MM					
		L801	6140TBZ007A	DR10*7(K-30) 100UH 0.4MM 34.5T S					
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/T					
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/T					
		L804	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L805	6210TCE001C	HB-1T3216-500JT CERATEC 3216MM C					
		L810	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/T					
		L811	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/T					
TRANSISTOR									
		Q501	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOLTAGE					
		Q701	0TR390409AE	KST3904-MTF TP SAMSUNG SOT23 GEN					
		Q702	0TR390409AE	KST3904-MTF TP SAMSUNG SOT23 GEN					
RESISTORs									
		R130	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP					
		R201	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP					
		R202	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP					
		R218	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R219	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R220	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R221	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R222	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R223	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R224	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R225	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP					
		R227	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP					
		R229	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP					
		R231	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP					
		R233	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP					
		R234	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP					

MODEL: FPD1510				DATE: 2001. 7. 10.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		SW5	140-058D	SKHV10911A LGEC NON 12 20 HORIZE
		SW6	140-058D	SKHV10911A LGEC NON 12 20 HORIZE
		SW7	140-058E	SKHV10910B LGEC NON 12V 20A HORI
		ZD1	0DZ560009CE	MTZJ5.6B TP ROHM-K DO34 500MW 5
		ZD2	0DZ560009CE	MTZJ5.6B TP ROHM-K DO34 500MW 5
		LED1	0DL305029BA	LTL-305DJ-0C2 TP LITEON GREEN/YE

MISCELLANEOUS

⚠	P/CORD	174-206F	SP305+IS14,SVT 18*3C I-SHENG UL/
⚠	LCD	6304FLP001A	LM151X05-B3 LG PHILIPS TFT COLOR
⚠	INVERTER	6632Z-1507C	NMC 1507 15.1 12V (CHOI JEONG G
⚠	AC-DC/ADAPTER	6634TBZ016B	ADP-36UB DELTA 12V 3.0A FOR G/W
⚠	D-SUB/CABLE	6866TD9001L	UL 2990-9C(7.5) DT 1870MM COOL G
⚠	DVI/CABLE	6866TDV004F	UL20276 DT 2000MM PEARL WH LG562

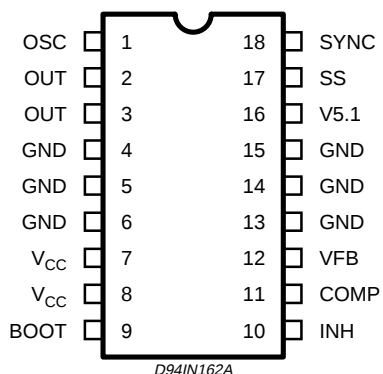
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PIN CONFIGURATION

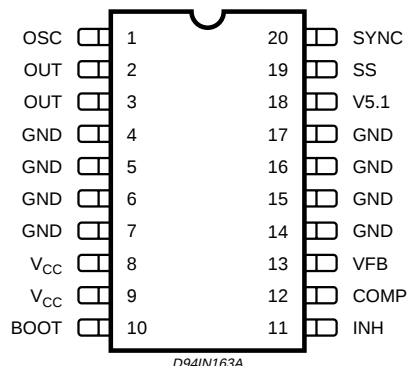
L4973V3-L4973V5
L4973D3-L4973D5

3.5A STEP DOWN SWITCHING REGULATOR

Pin Configuration

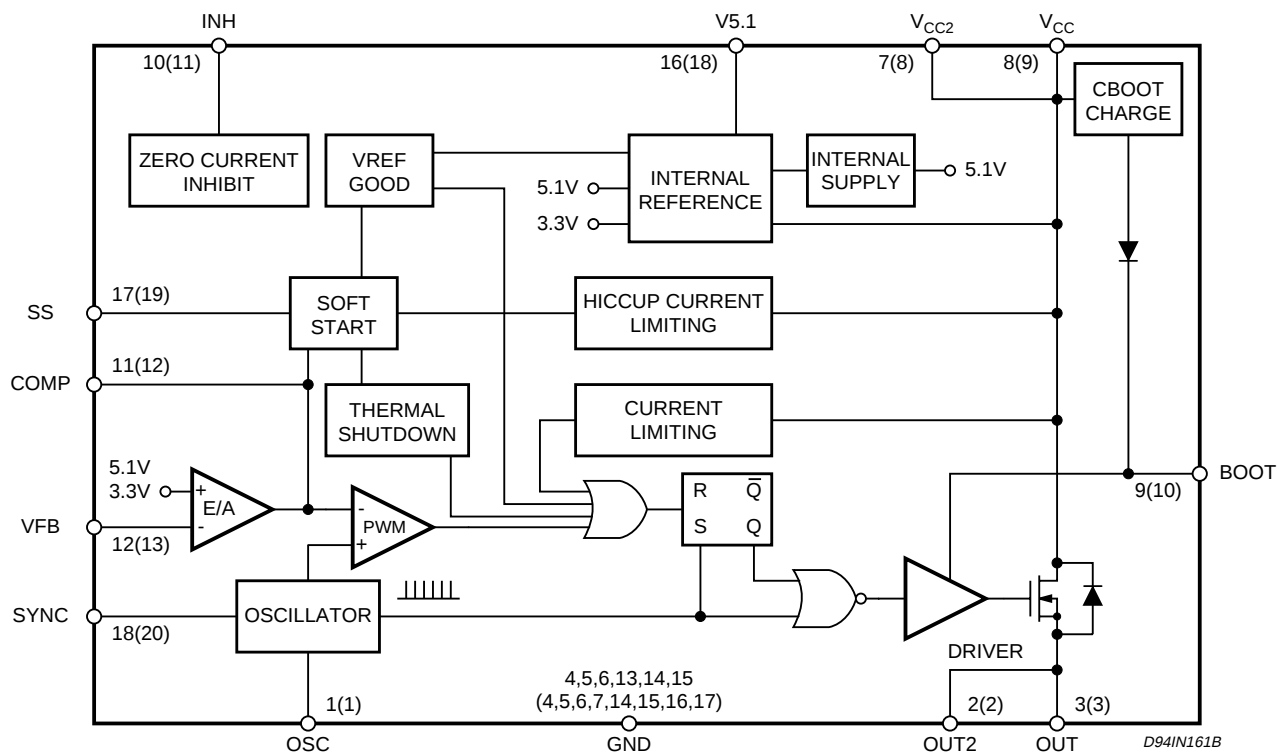


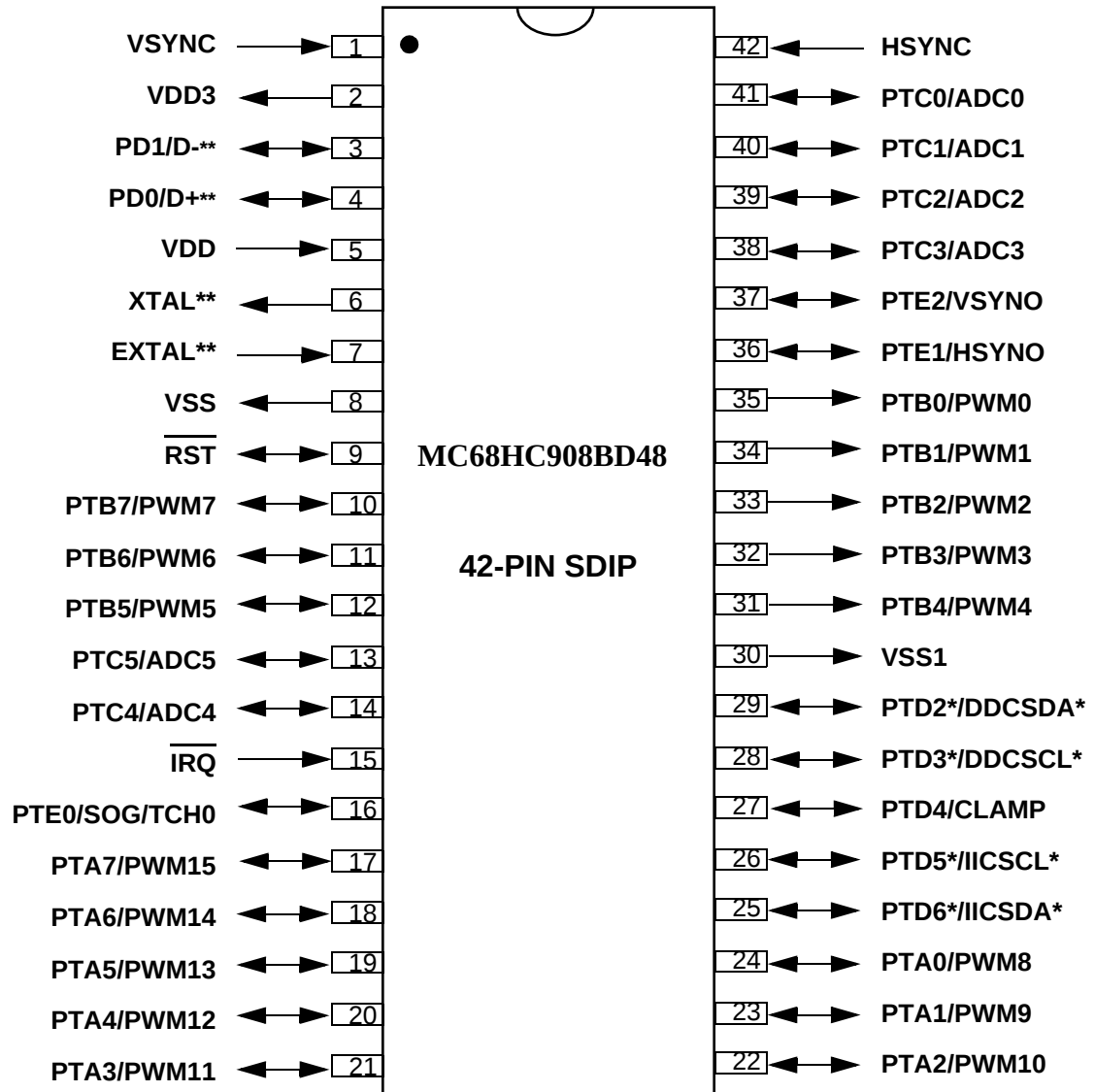
DIP18



SO20

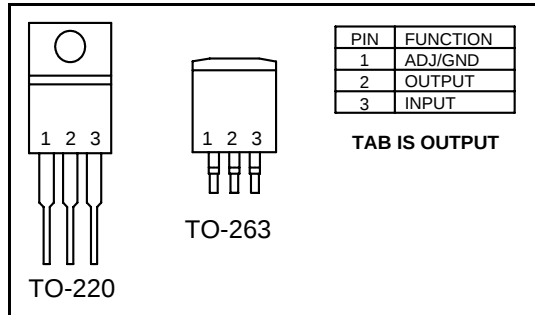
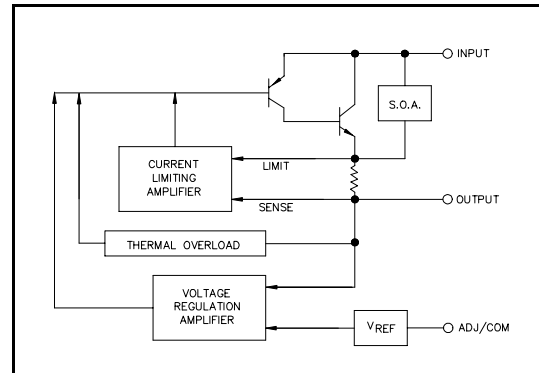
Block Diagram





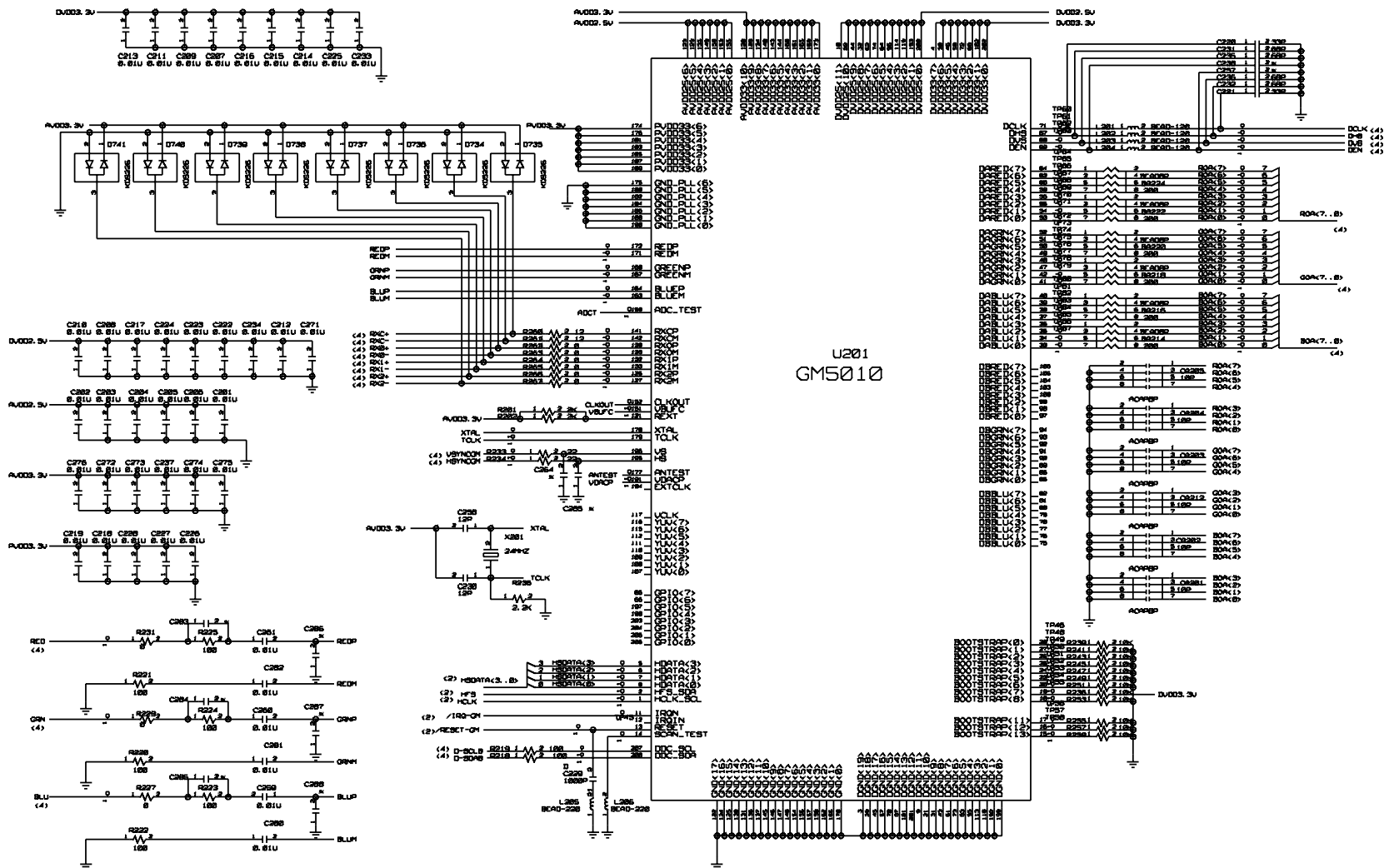
*: +5V open-drain
 **: +3.3V port
 else: +5V port

EZ1086

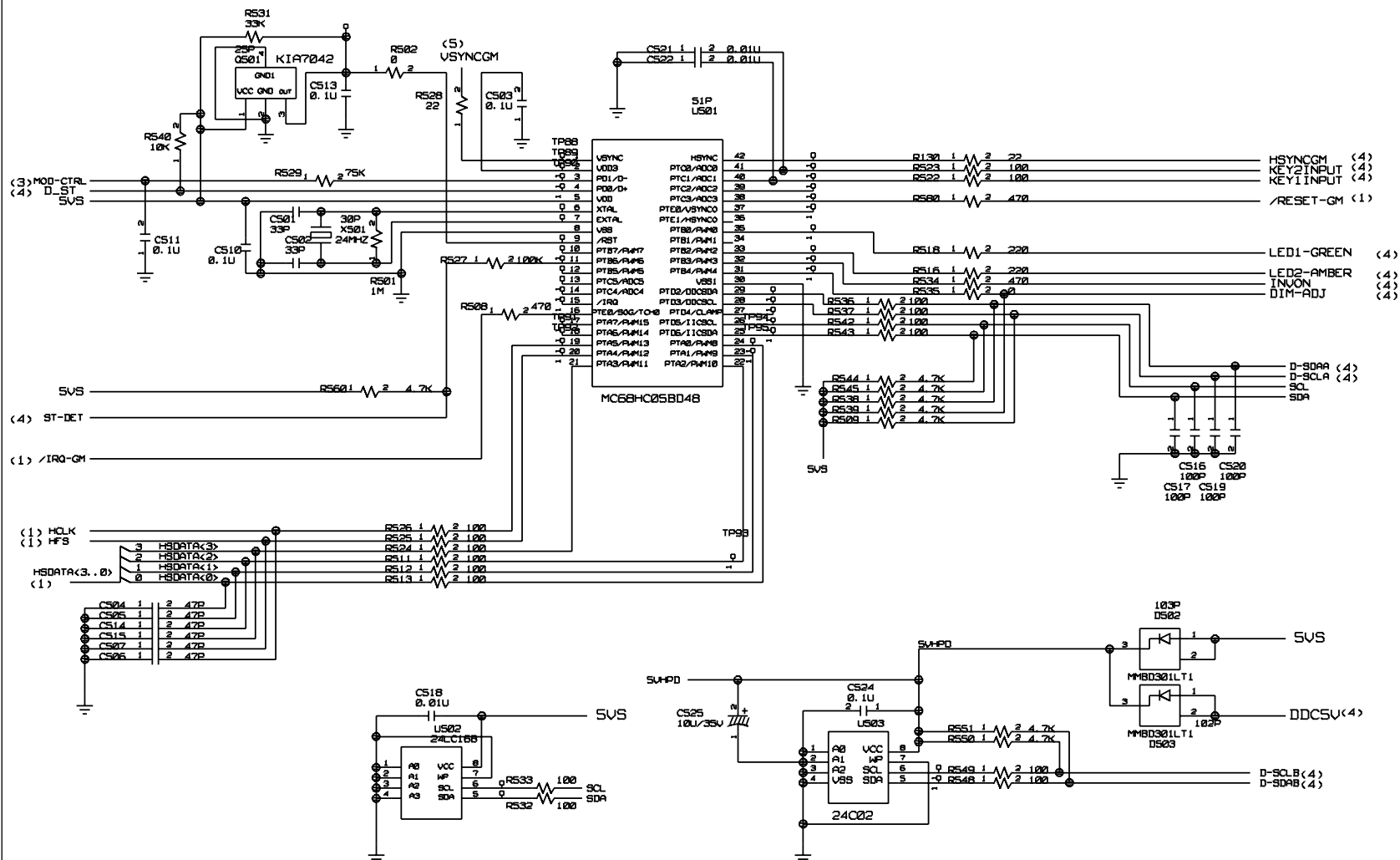
1.5AMP POSITIVE VOLATAGE REGULATOR**Pin Configuration****BLOCK DIAGRAM**

TYPE	PARTS	TYPE	PARTS
	ICs		Transistor
1. Vcc 2. GND 3. OUT	BA033FP	1: Vcc 2: GND 3: OUT	KIA7042F

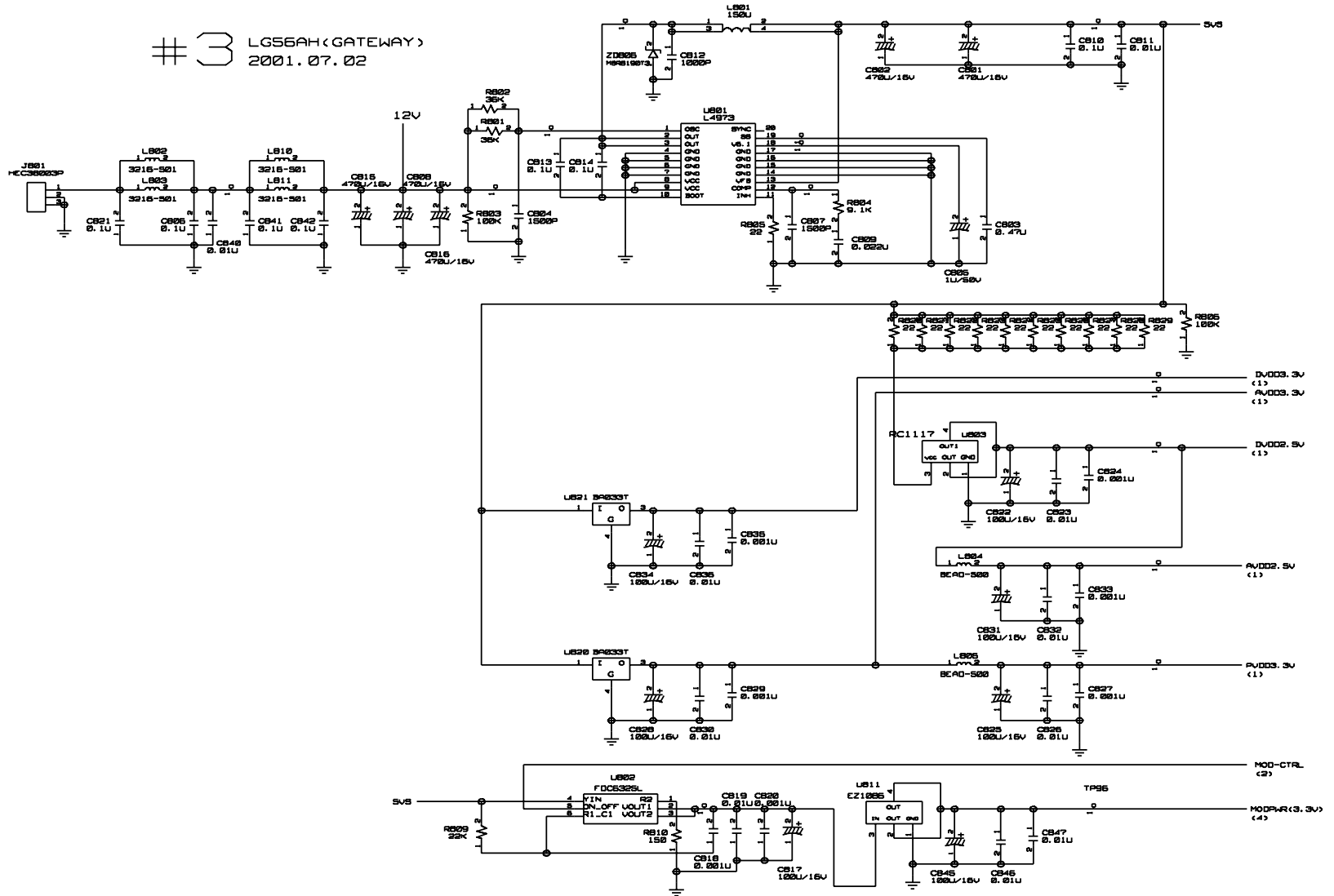
1 LG56AH(GATEWAY)
2001.07.02



2. MICROM



#3 LG56AH(GATEWAY)
2001.07.02



4. D-SUB & DVI-D

4 LG56AH(GATEWAY)
2001.07.02

