

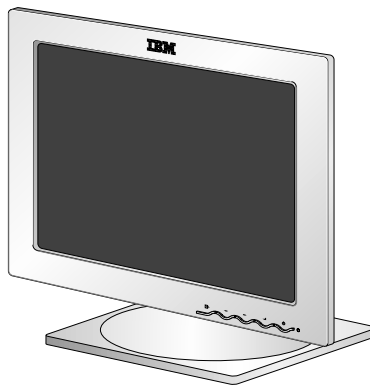


MODEL: 9493-AW1(6bit) 9493-AG1(6bit)

COLOR MONITOR SERVICE MANUAL

CAUTION

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



6Bit Module
Issue Date: APRIL 2000



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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: Color Active Matrix TFT LCD
Size	: 15.1inch (38.35cm)
Pixel Pitch	: 0.3mm x 0.3mm
Pixel Format	: 1024 x 768 pixels (XGA) RGB Stripe Arrangement
Color Depth	: 6-bit, 262,144 colors
Active Video Area	: 307.2mm x 230.4mm
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., 55° min.
Right	: 60° typ., 55° min.
Top	: 45° typ., 40° min.
Bottom	: 45° typ., 40° min.

2-2. Luminance : 200 cd/m² typ.

2-3. Angle at Half Luminance

Left	: 50° min.
Right	: 50° min.
Top	: 45° min.
Bottom	: 30° min.

2-4. Contrast Ratio : 200° typ.

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

- 1) Type : Composite
: Separate TTL
: Sync-On-Green (SOG)
- 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 ~ 70 kHz
Vertical	: 56 ~ 85 Hz

4. POWER SUPPLY

4-1. Power Adaptor

Input	: AC 90~264V, 50/60Hz 1.2A
Output	: DC 24V 1.5A 

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 3 W	AMBER
SUSPEND	ON/OFF	OFF	less than 3 W	FLASHING AMBER
OFF	OFF/OFF	OFF	less than 3 W	FLASHING AMBER
POWER OFF	-	-	less than 3 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. Altitude : 0~10,000ft (3,657m)

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 401.3 mm (15.80")
Depth	: 250 mm (9.84")
Height	: Max – 463.5 mm (18.25") Min – 338.5 mm (13.33")

7. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 7.1 kg (15.66 lbs)
Gross Weight	: 9.1 kg (20.07 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 IBM Inc. or you will void the original parts and labor guarantee.

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.

⚠ WARNING

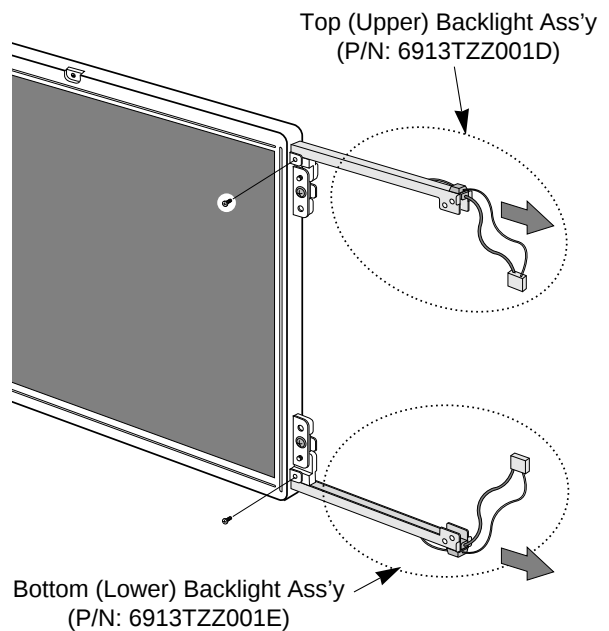
BE CAREFUL ELECTRIC SHOCK !

- 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.

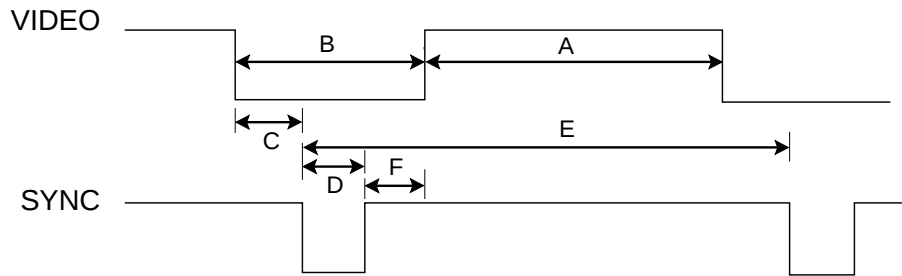
⚠ CAUTION

IF BRIGHTNESS OF THE LCD MODULE DARKEN, REPLACE THE BACKLIGHT ONE OR ALL.

- There is two backlight, must distinguish between the top (upper) and the bottom (lower), and be careful of treatment it.
- MTBF (Mean Time Between Failure) of a backlight is about 25,000 hours.



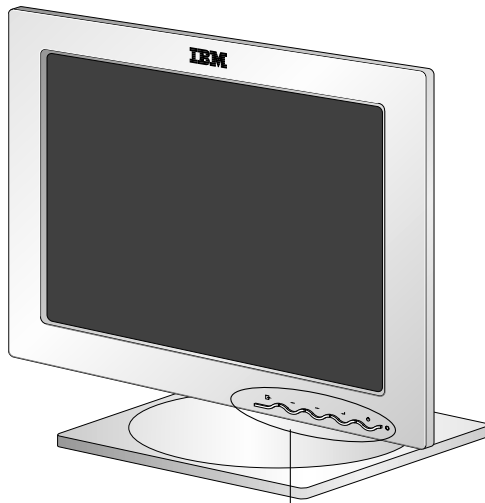
TIMING CHART



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	35.00 KHz	864	940	224	64	96	64	640 x 480
	V (Lines)	-		66.67 Hz	525	480	45	3	39	3	
5	H (Pixels)	-	31.5	37.50 KHz	840	640	200	64	120	16	640 x 480
	V (Lines)	-		75.0 Hz	500	480	20	3	16	1	
6	H (Pixels)	-	36.0	43.27 KHz	832	640	192	56	80	56	640 x 480
	V (Lines)	-		85.0 Hz	509	480	29	3	25	1	
7	H (Pixels)	+	36.0	35.156 KHz	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)	+	56.25	53.670 KHz	1048	800	248	64	152	32	800 x 600
	V (Lines)	+		85.06 Hz	631	600	31	3	27	1	
12	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	
13	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	
14	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	
15	H (Pixels)	+	78.75	60.023 KHz	1312	1204	288	96	176	16	1024 x 768
	V (Lines)	+		75.0 Hz	800	768	32	3	28	1	
16	H (Pixels)	+	95.50	68.670 KHz	1376	1024	352	96	208	48	1024 x 768
	V (Lines)	+		85.0 Hz	808	768	40	3	36	1	

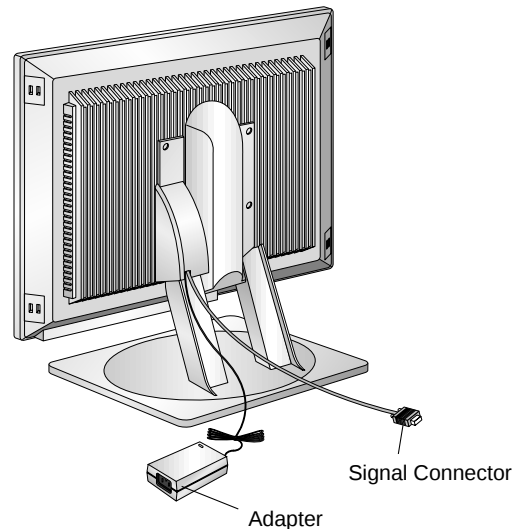
OPERATING INSTRUCTIONS

FRONT VIEW

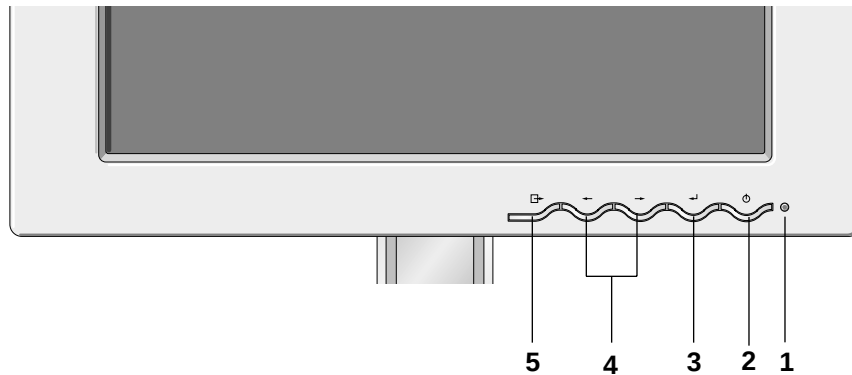


Front Control Panel

REAR VIEW



Front Control Panel



1. 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 orange.

2. Power ON/OFF Button

Switches the monitors on and off.

3. ENTER Button

- 1) Displays main OSD menu.
- 2) Enters highlighted menus and submenus.
- 3) Selects highlighted option.

4. Arrow Key

Moves the cursor to highlight icons or make adjustments.

- 1) Brings up Contrast control OSD.
- 2) Left and Right arrows pressed together bring up auto setup.

5. Exit Button

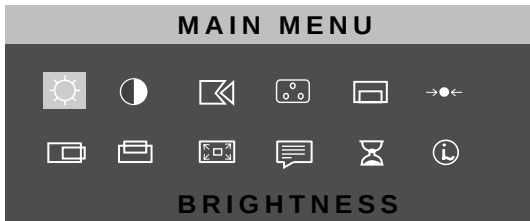
- 1) Exits from menus, sub menus.
- 2) Exits from OSD.

On-Screen-Display (OSD) Control

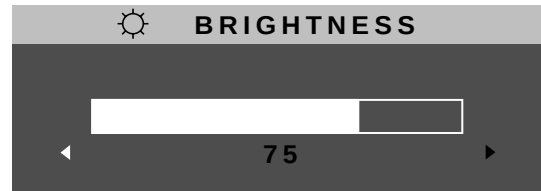
The settings adjustable with the user controls are viewed through the On -Screen Display (OSD). Press the enter button [↵] to display the main OSD menu.

Initial appearance of OSD

Main Menu;



Sub Menu;

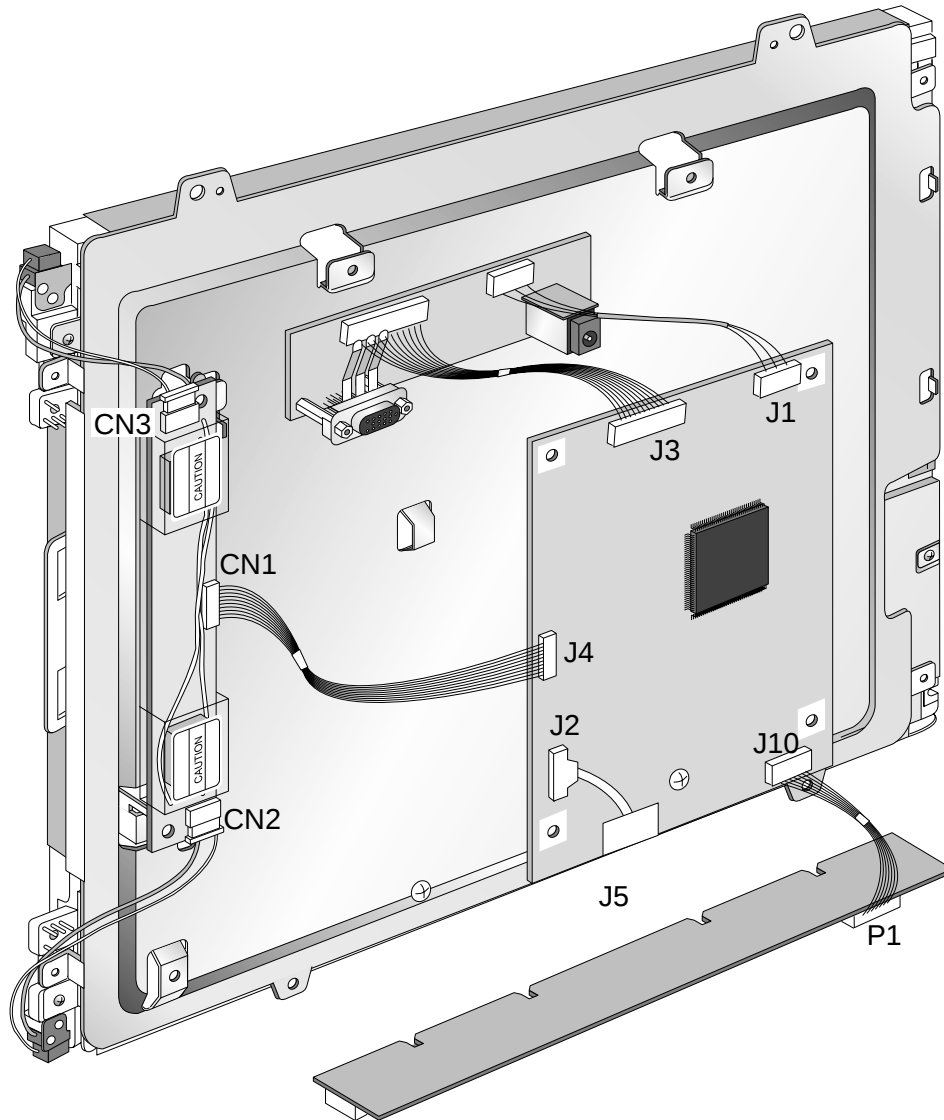


Listed below are icons, icon names.

Icon	Description
	Brightness: To adjust the screen brightness level.
	Contrast: To adjust the image contrast level.
	Image Set-Up: The IMAGE SET-UP function is used to adjust the level of noise in the video signal which causes horizontal lines or areas on the screen where the image appears to be unstable and jitters or shimmers. This can be done automatically or manually. If manual is selected, the user will go to the manual adjustment screen.
	Color: Select the Color Mode you find most comfortable and then fine tune the colors using the User Color Mode menu, if necessary.
	OSD Position: Changes the position of the OSD on the screen.
	Reset: Reset should return all available functions (apart from language which should not change unless adjusted via the LANGUAGE menu) to their factory presets.

Icon	Description
	H-Position: Moves the screen left and right.
	V-Position: Moves the screen left and right.
	Image Size: This function displays the image in its original size or enlarged size so as to fit in the full screen of the LCD panel.
	Language: The language chosen affects only the language of the OSD. Select one of the five language to use for the OSD. It has no effect on any software running on the computer.
	OSD Time: To select OSD display duration time. (5 - 60 seconds)
	Information: The model name, serial number, year of manufacture and current display mode should be included in the Information screen. To inform users of the current mode the monitor is using, and also shows the preset and user modes stored in the monitor. The current display mode be shown at the base of the preset mode and user mode displays. Use the left and right buttons to see the preset modes and user modes screens.

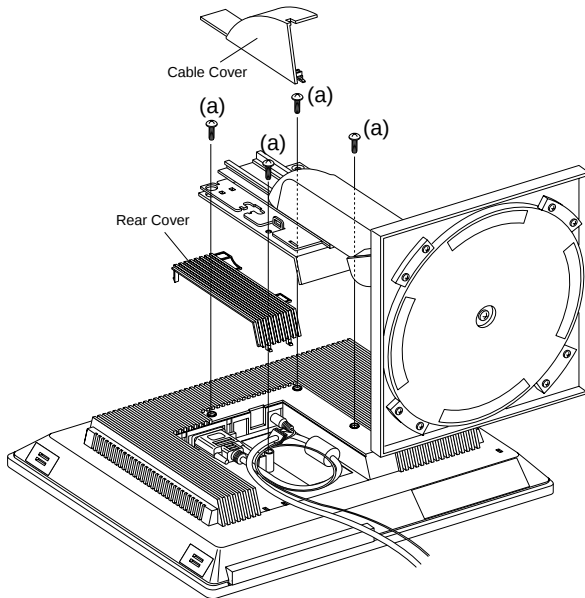
WIRING DIAGRAM



DISASSEMBLY

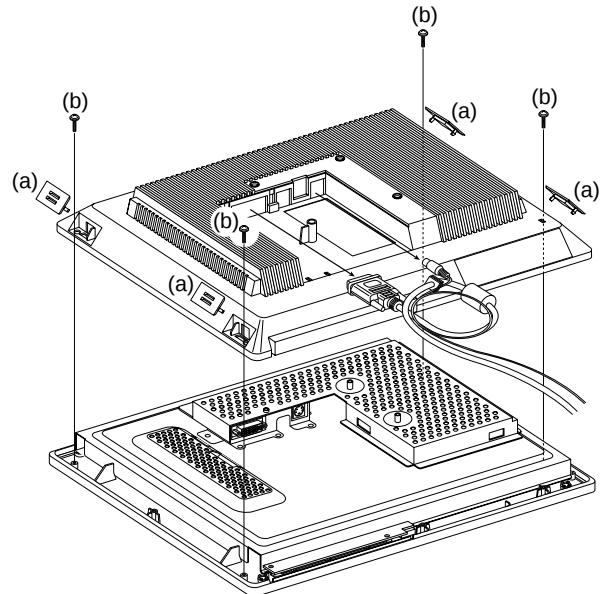
1. TILT/SWIVEL REMOVAL

- (1) Remove the Cable Cover.
- (2) Remove four screws (a).
- (3) Remove the Tilt/Swivel.
- (4) Remove the Rear Cover.



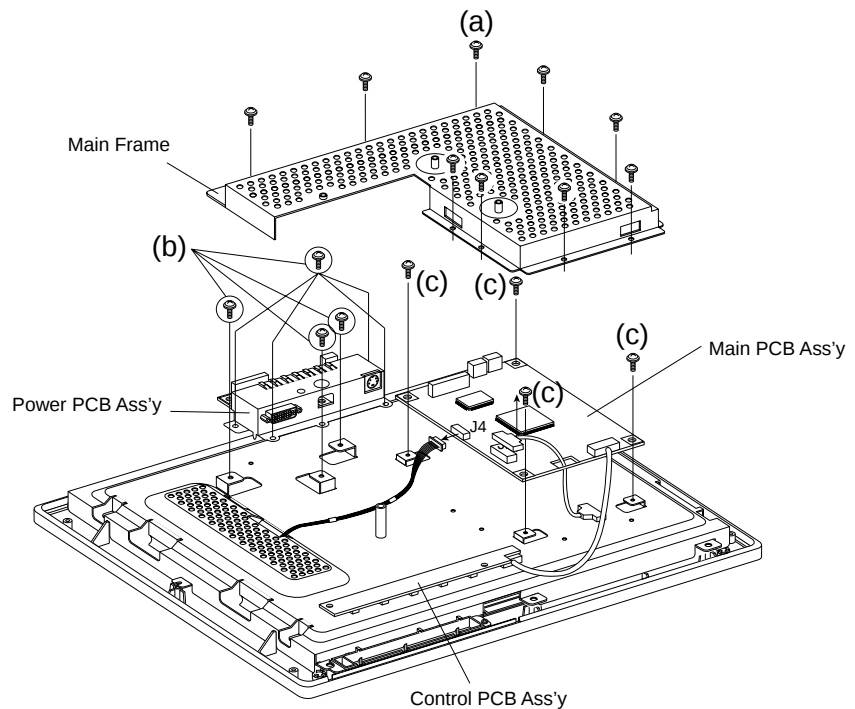
2. BACK COVER REMOVAL

- (1) Remove four Screw Covers (a).
- (2) Remove four screws (b).
- (3) Remove the Back Cover Ass'y.



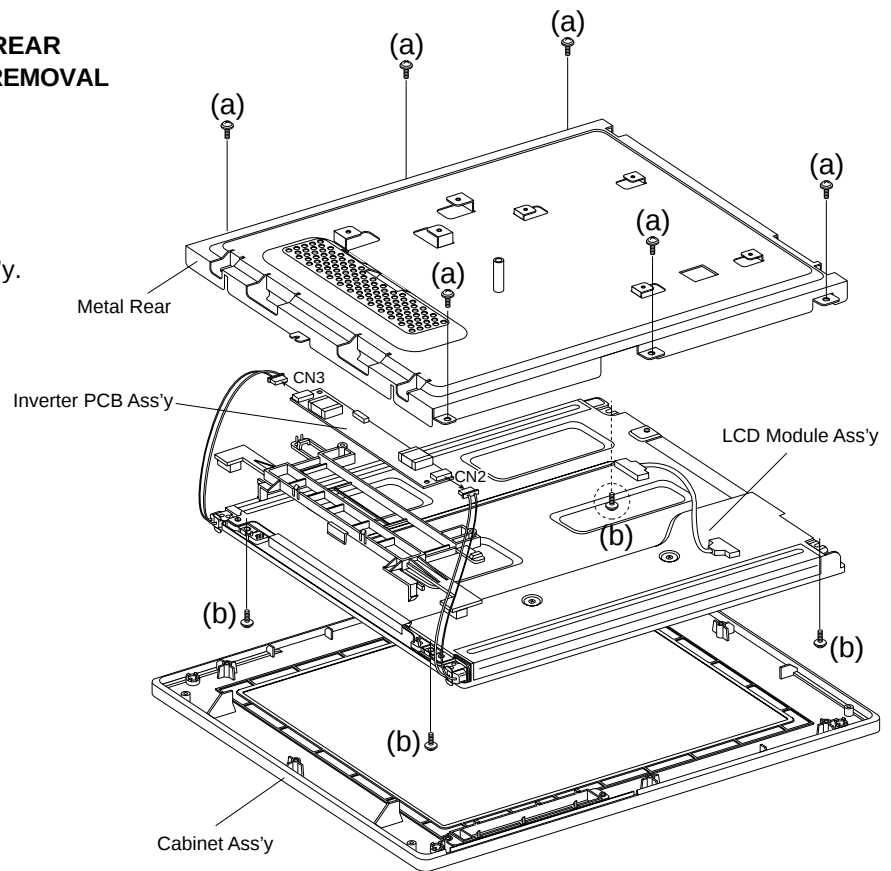
3. MAIN, CONTROL & POWER PCB ASSEMBLY REMOVAL

- (1) Remove nine screws (a).
- (2) Disconnect J4 and J10.
- (3) Remove the Metal Rear.
- (4) Disconnect J2.
- (5) Remove seven screws (b).
- (6) Remove the Power PCB Ass'y.
- (7) Remove four screws (c).
- (8) Remove the Main PCB Ass'y.
- (10) Remove the Control PCB Ass'y.



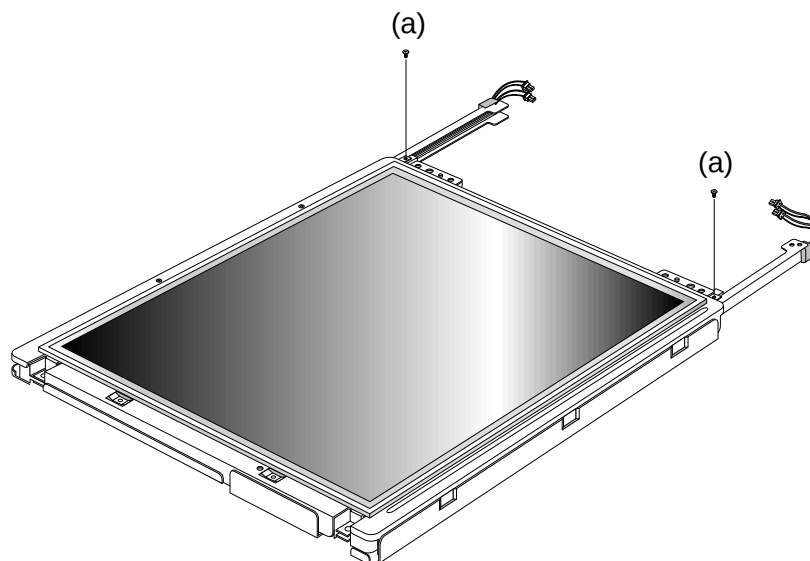
4. CABINET ASSEMBLY, METAL REAR & INVERTER PCB ASSEMBLY REMOVAL

- (1) Remove six screws (a).
- (2) Remove the Cabinet Ass'y.
- (3) Remove four screws (b).
- (4) Remove the Metal Rear.
- (5) Disconnect CN2 and CN3.
- (6) Remove the Inverter PCB Ass'y.

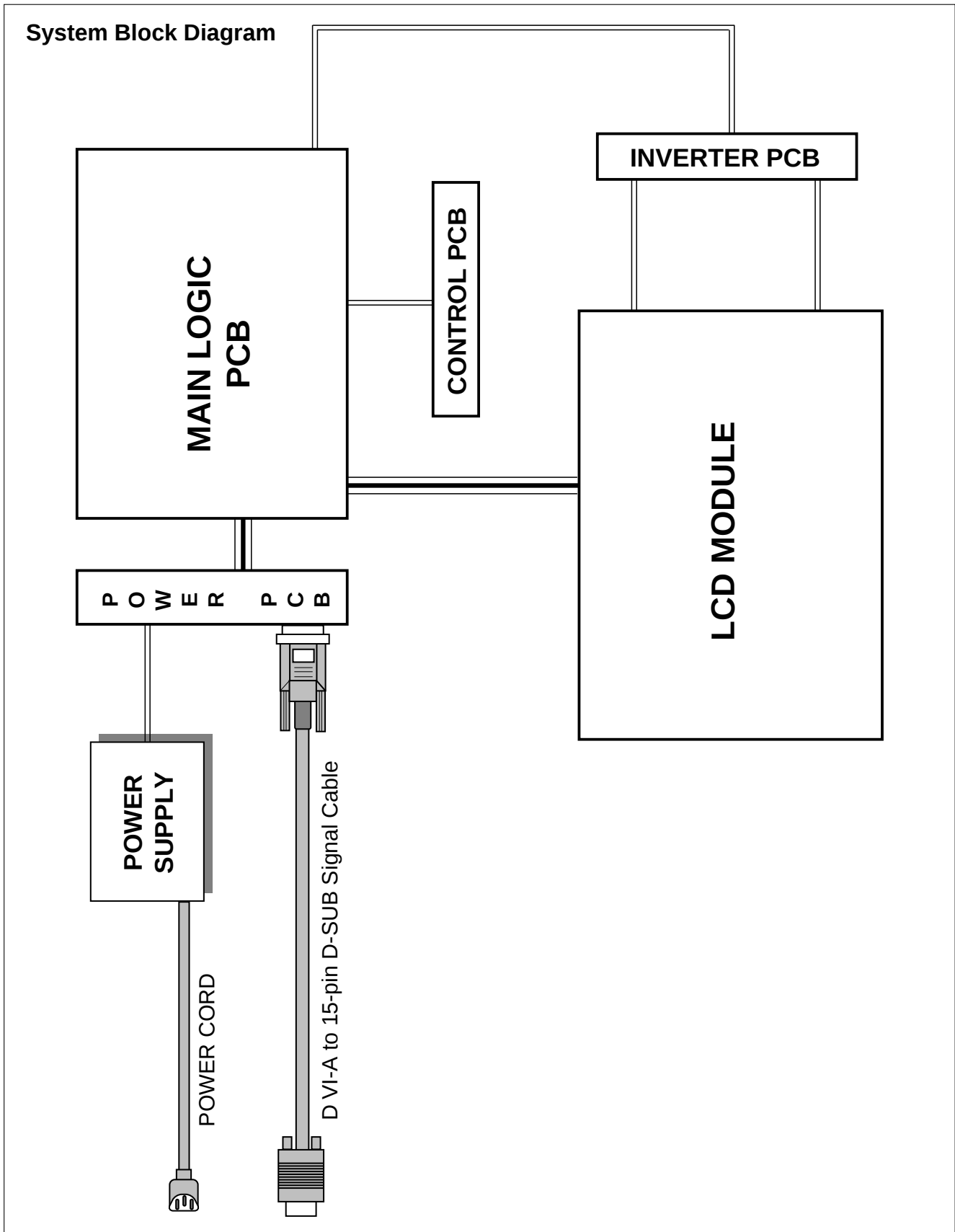


5. BACKLIGHT REMOVAL

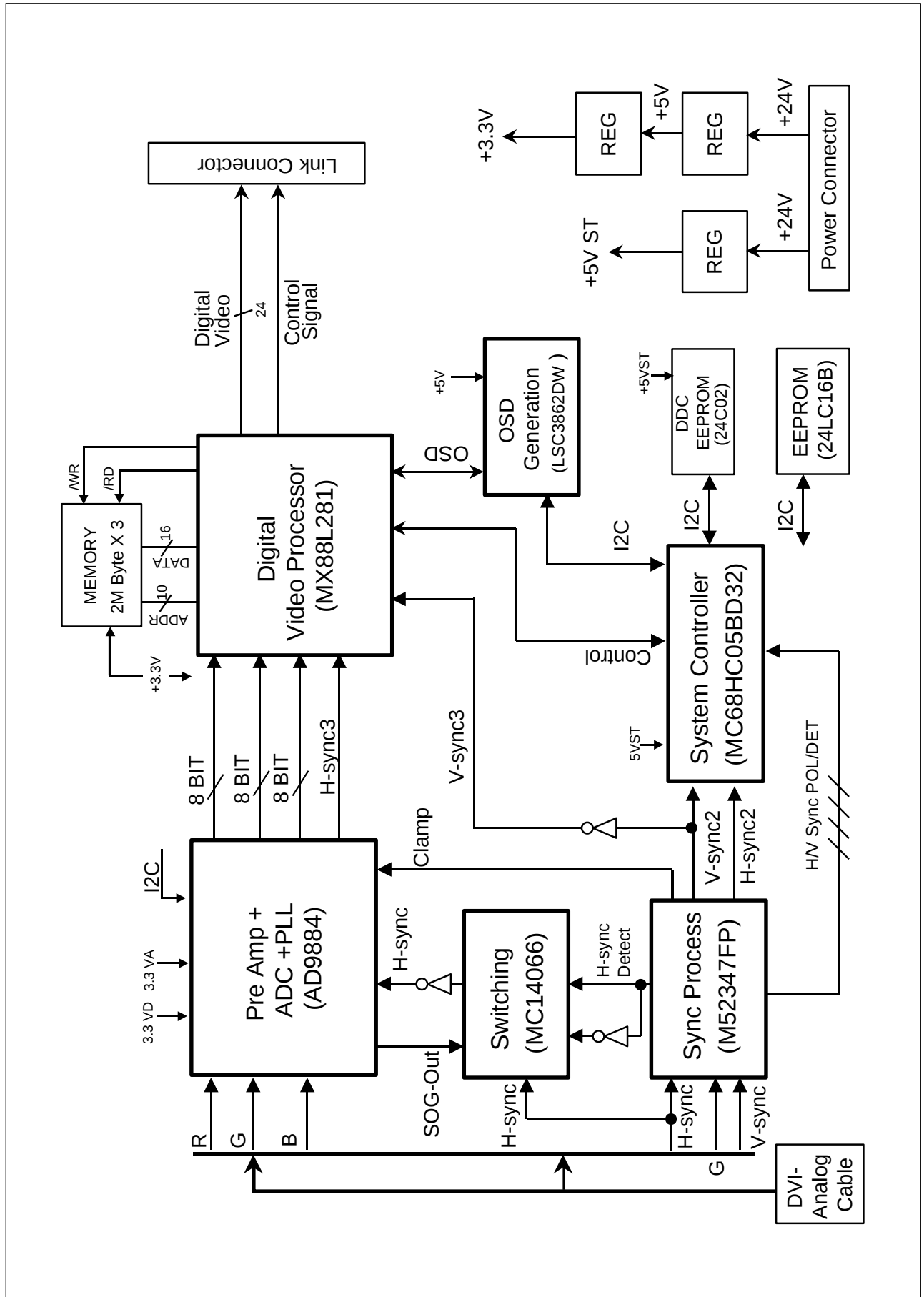
- (1) Remove two screws (a).
- (2) Remove the Backlight from the LCD Module.



BLOCK DIAGRAM



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Amp & PLL & A/D Converter Circuit

AD9884(U5) is one chip IC which it supports three function block of Video Amp, PLL and A/D converter.

Video signal (0.7Vp.p) clamped through C63, 64, 65 inputs to U5's R, G, and B pins. The signal level is 0.7Vac added 4Vdc. This signal is processed as a proper 8 bit digital signal for input of MX88L281 (U1) by U5's amplifying, phase locking, and A/D converting operation.

U5 generates clock and horizontal sync for MX88L281 (U1) with MC14066B(U11)'s output horizontal sync signal.

Sync Process (U14)'s clamp output makes U5 keep video signal's voltage from zero to AC signal's minimum level constantly regardless of various input video signals.

2. Macronix Circuit (Scaler chip)

The MX88L281 (U1) gets the video signal converted analog to digital from U18, and carries out four function of image processing that interpolates input signal less than 1024x768 resolution to that of 1024x768 resolution, displays one to one image without interpolation, mixes OSD(On Screen Display) signal by interfacing with OSD IC (U2), and controls three memories(U6, 7, 8) as frame converter.

U1 outputs signals of HSYNC-OUT, VSYNC-OUT, DEN, CLKA-ODD, and each 8 bit R, G, B to transmitter IC (U16).

3. Memory Circuit

2M byte SDRAM(U6, 7, 8) is used as a frame converter for supporting up to 85 Hz frame rate and controlled by MX88L281(U1).

The control signals are CKA, CLK, UDOM, LDOM, /WE, /CAS, /RAS, /CS, /BA.

4. Panel-Link Circuit

Panel link transmitter (U16) delivers digital signal to the receiver inside LCD module by method of abstraction.

The abstracted signals are pairs of TX0+-, TX1+-, TX2+-, TXC+- of which voltage swing is 0.5V each.

Its swing is similar to LVDS (Low Voltage Differential Signal).

Transmitter (U16) gets signals of HSYNC-OUT, VSYNC-OUT, DEN, CLKA-ODD from U4, and outputs LVDS through TX pin. When PD pin's input is low, transmitter goes to power down mode.

5. System Controller (Microprocessor) Circuit

1) Microprocessor (U4) distinguishes polarity and frequency by calculating horizontal and vertical sync input from signal source.

2) Microprocessor (U4) carries out power control by sending power-down trigger signal to each IC.

U1, U5, and U16 has PD(Power-down) pin which operates at active-low each.

3) Microprocessor (U4) communicates with EEPROM (U10), AD9884 (U5), MX88L281 (U1), and OSD IC (U2) through SCL and SDA or 8 bit bus line. It makes all devices with communication channel operated properly.

4) Microprocessor (U4) let User adjust screen by each OSD function.

6. DC/ DC Converter

This circuit supplies DC power for each device needing DC voltage of 3.3VD, 3.3VD1, 3.3VA, PVD_ADC, 5VA and 5VSTD.

LM2674(U13)and LM2596(U15) , the DC/DC controller IC converts input 24Vdc into each voltage to be needed with peripheral circuit composed of Choke Coil (L8, 9), condensing components (ZD5, ZD6) and Regulators (U22, 19, 20, 23, 24).

5VSTD is supplied for Microprocessor through regulators (U22).

MODPWR for LCD module power are supplied by switching FET(U12) and regulator(U16), controlled by Microprocessor's triggering signal (M-PWR ON).

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 9493_6bit 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) Preset 1, Preset 2 and Preset 3 are automatically adjusted and saved to the EEPROM.
- 8) Select PRESET EXIT command and Enter.

3. DDC Data Write Procedure

- 1) Use this procedure only when there is some probelm on EDID data.
- 2) Select EEPROM → EDID Write command and Enter.
- 3) This will write the EDID data to EEPROM.

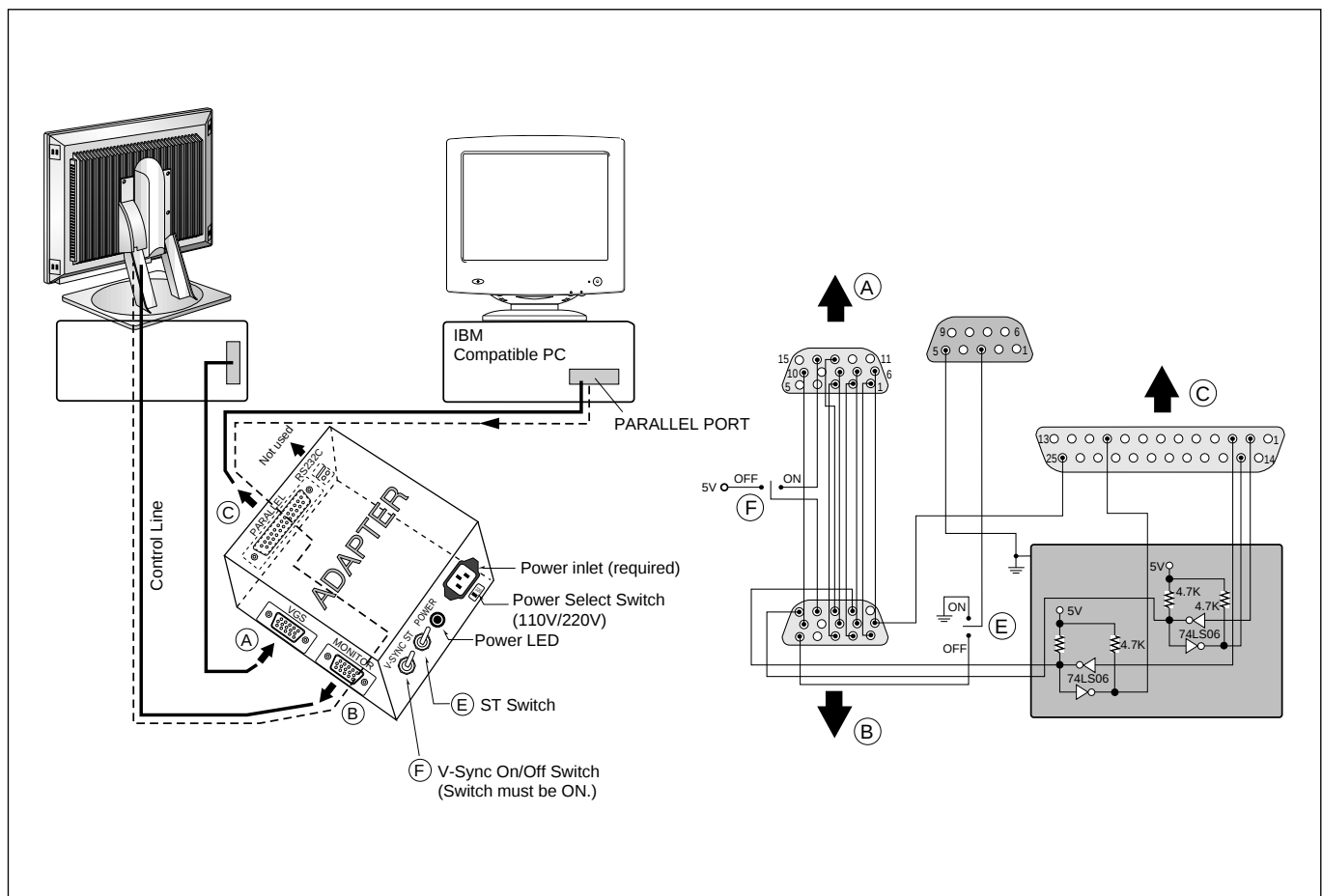
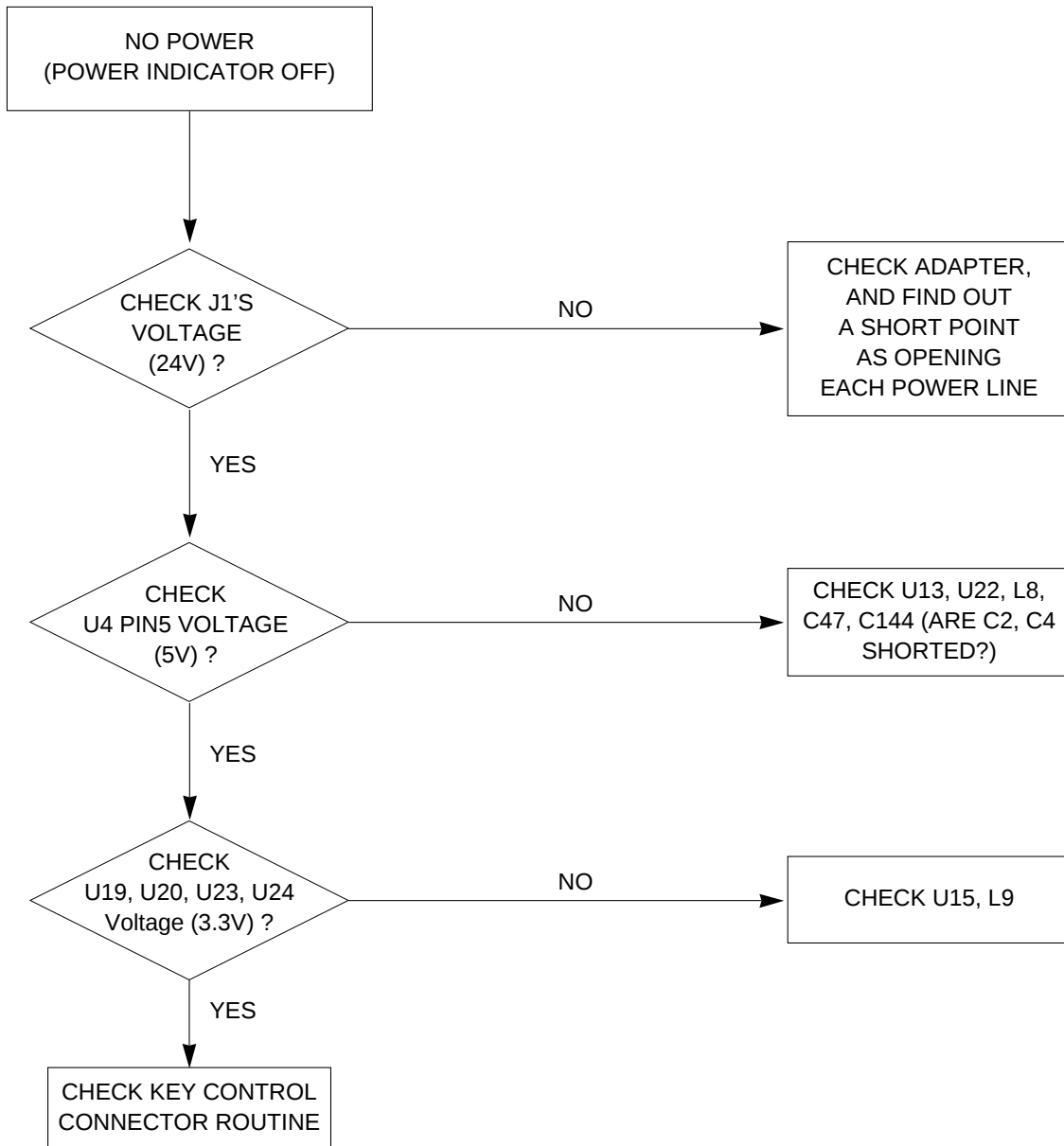


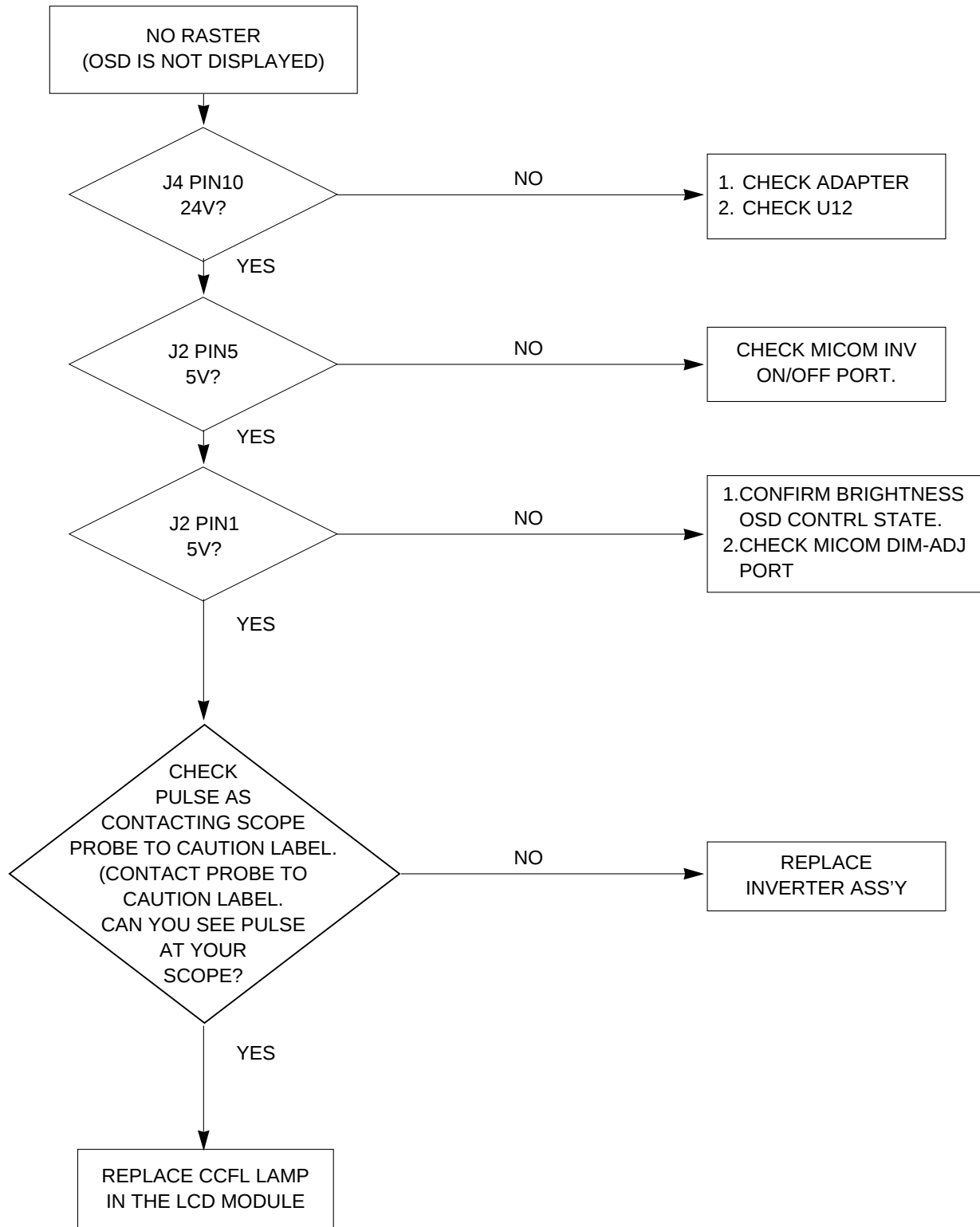
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

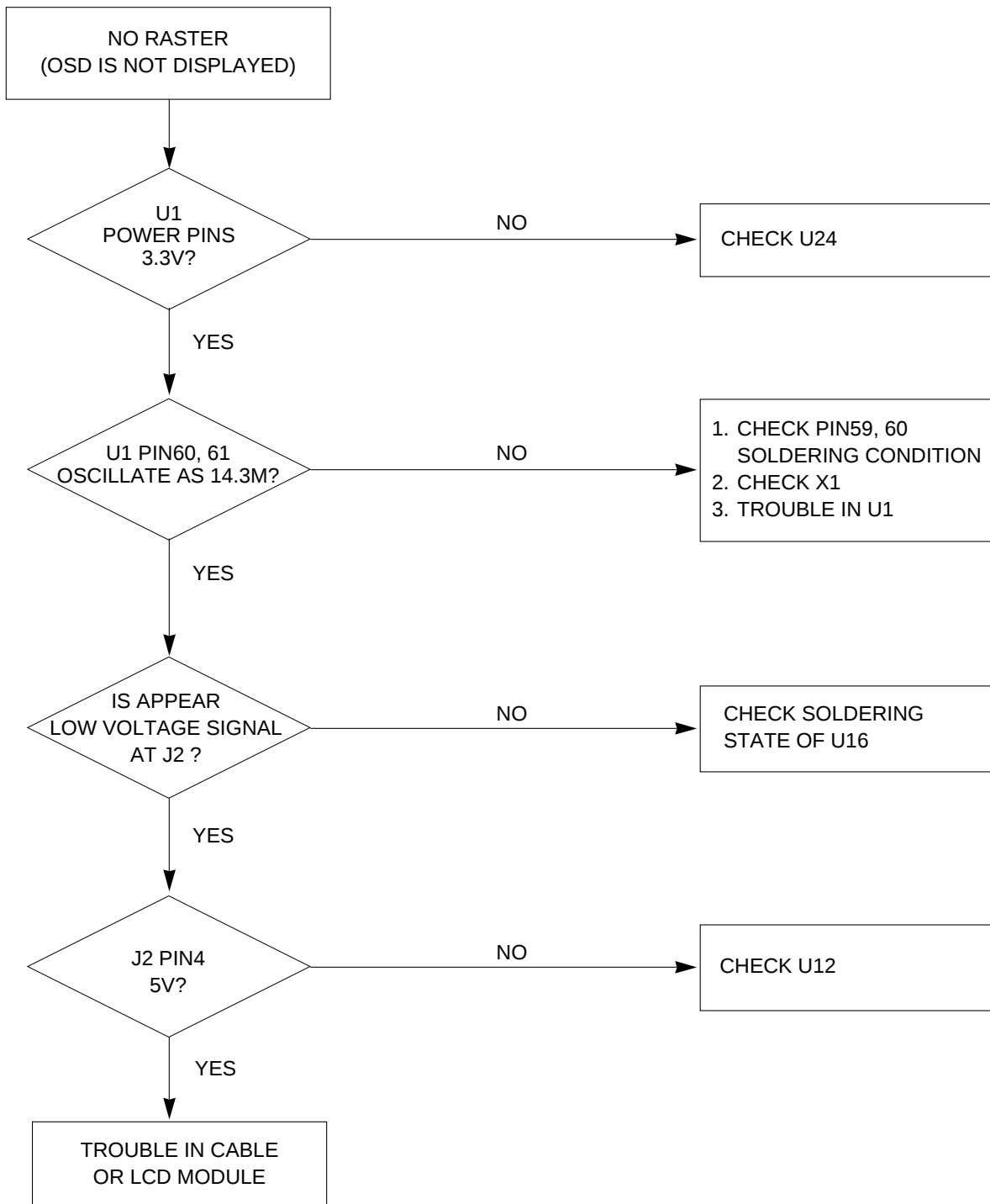
1. NO POWER



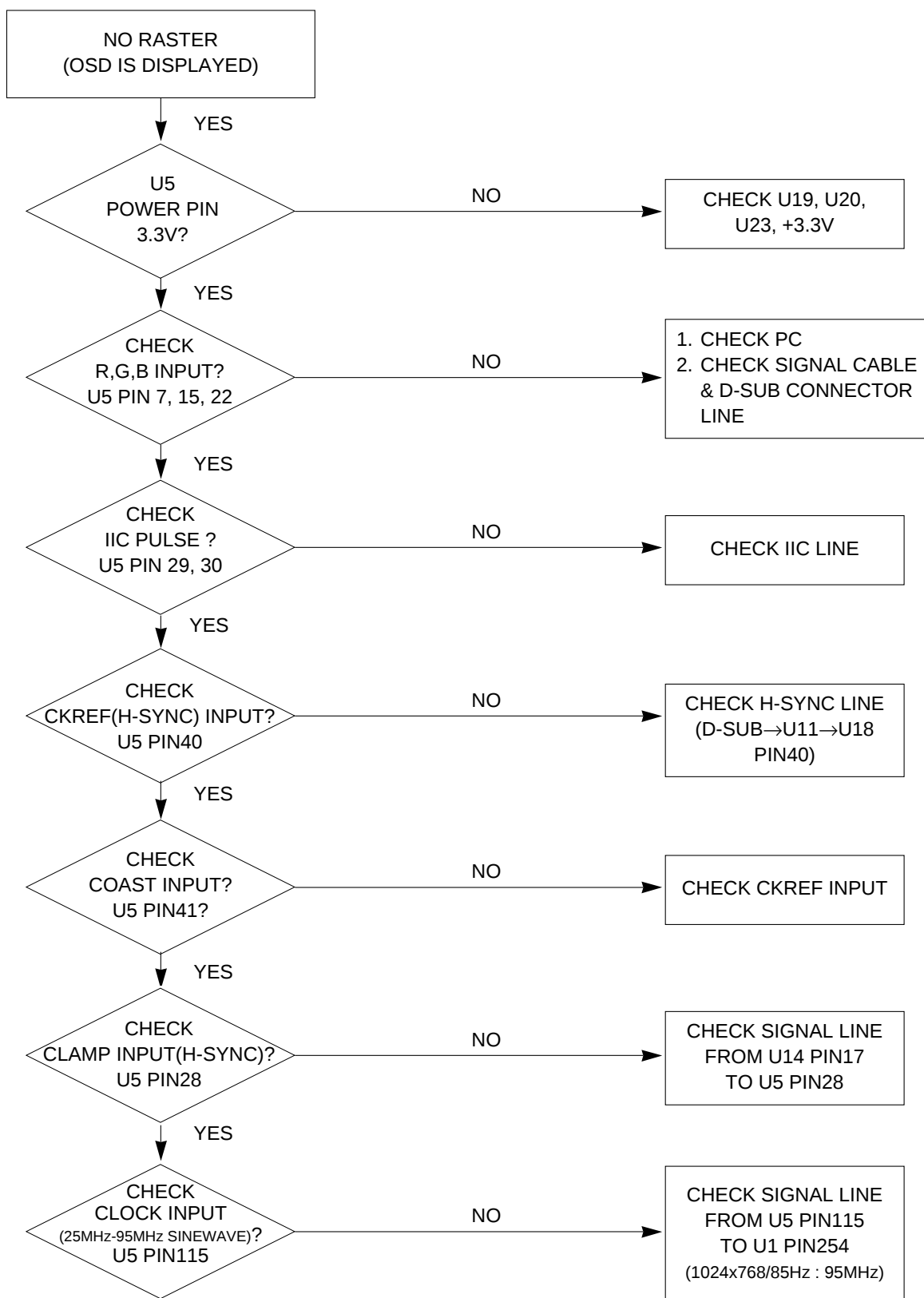
2. NO RASTER (OSD IS NOT DISPLAYED) – INVERTER



3. NO RASTER (OSD IS NOT DISPLAYED) – MX88L281

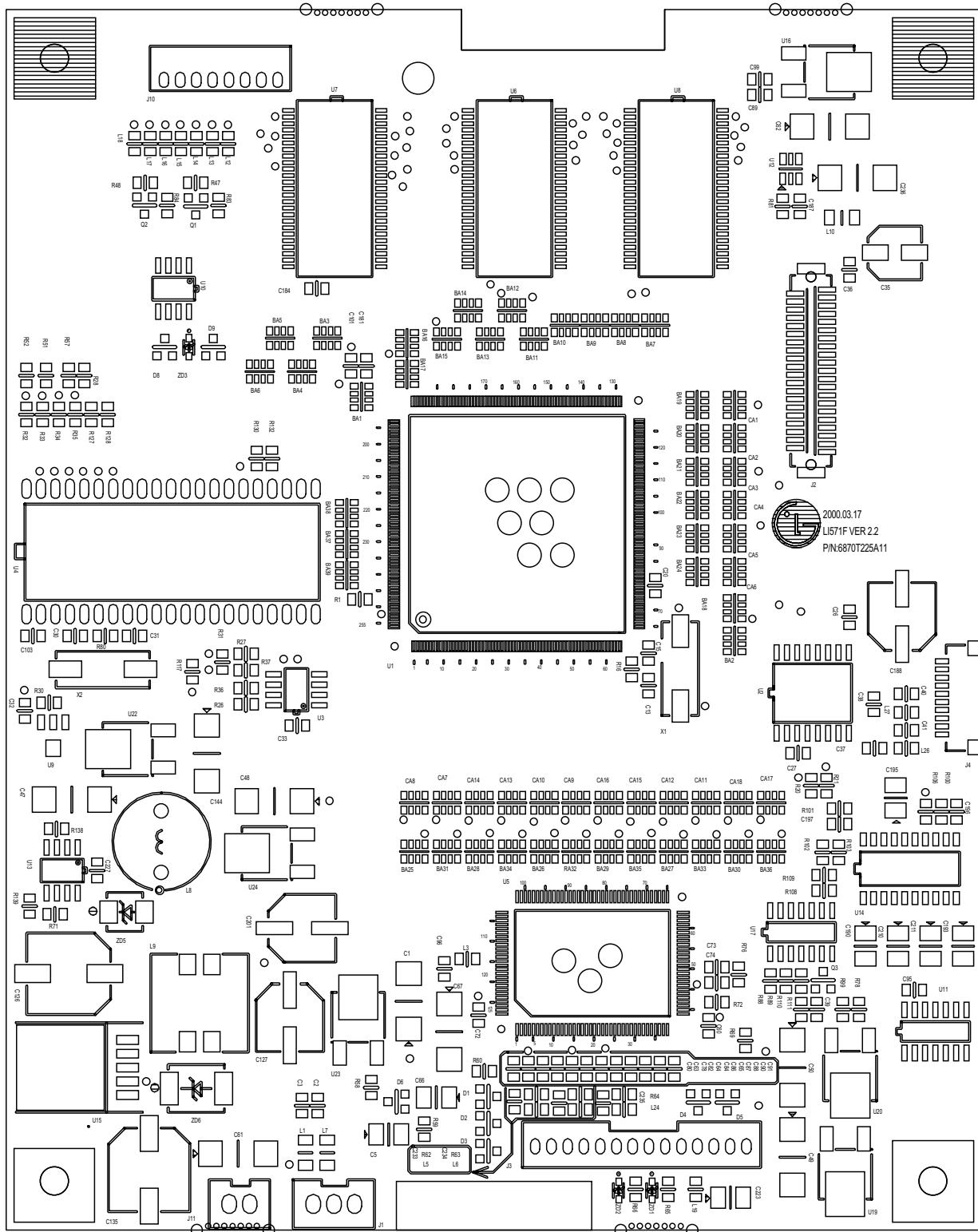


4. NO RASTER (OSD IS DISPLAYED) – AD9884

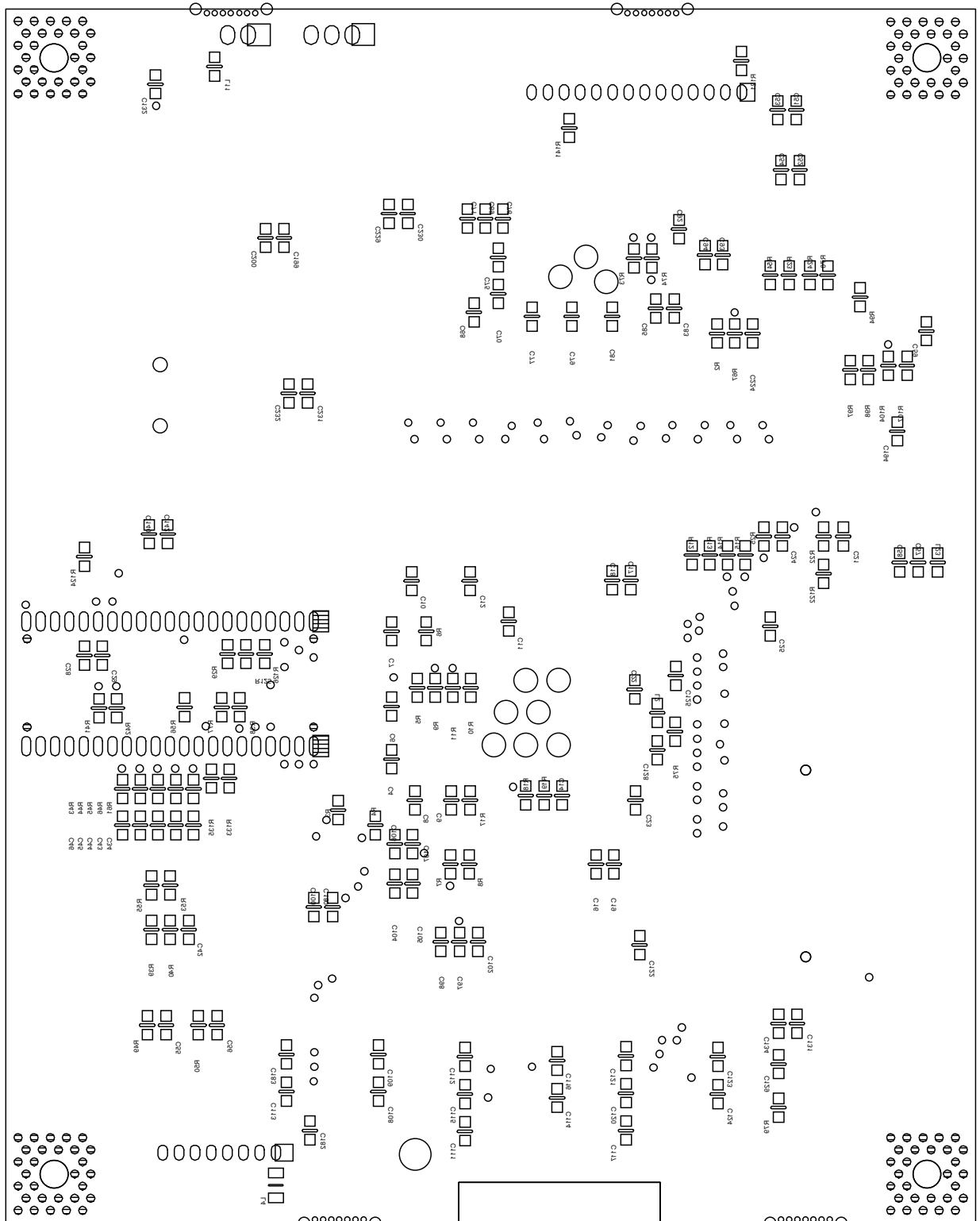


PRINTED CIRCUIT BOARD

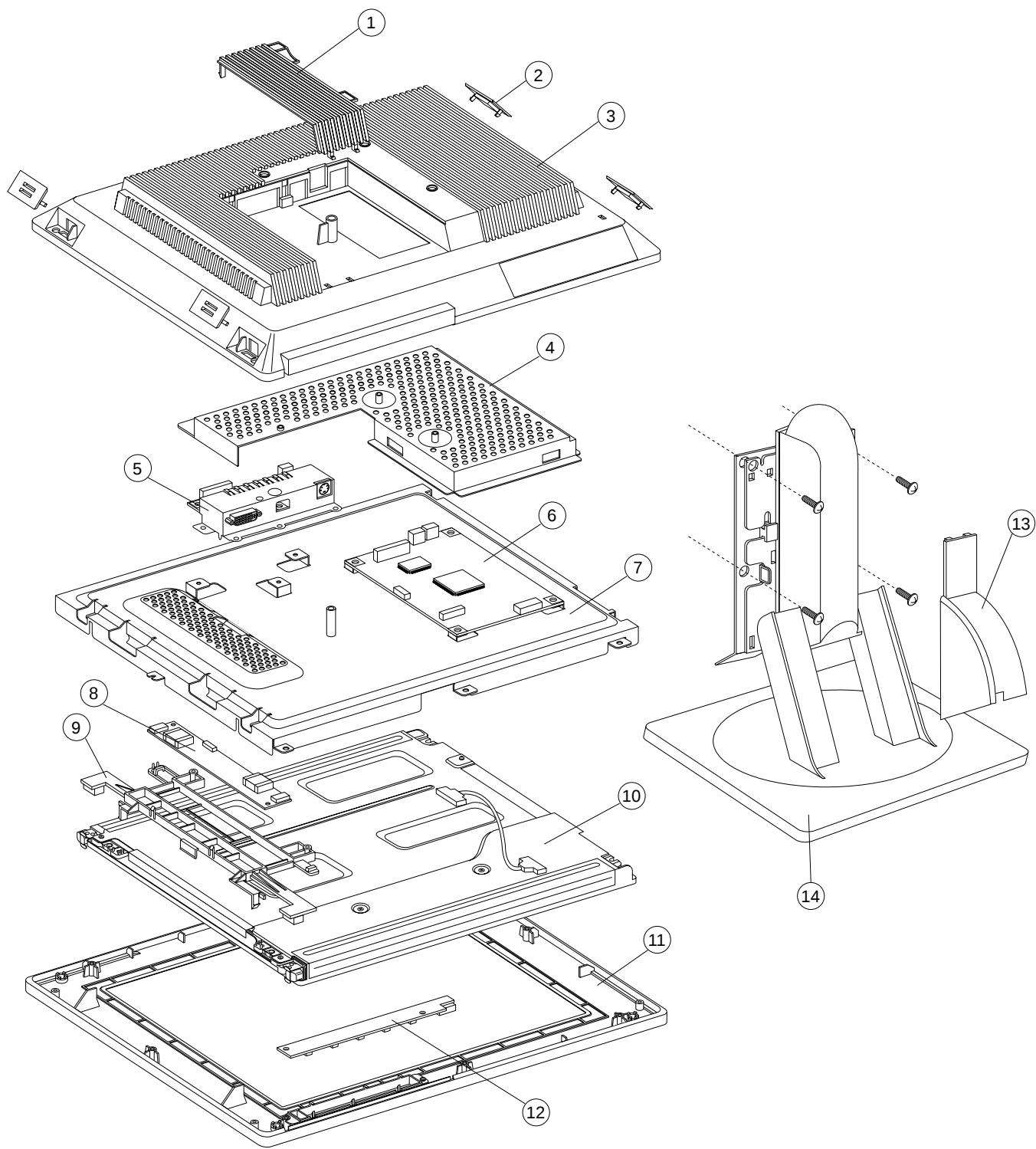
1. MAIN BOARD (Component Side)



2. MAIN BOARD (Solder Side)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Material
1	3550TKK100A	REAR COVER, STEALTH BLACK	1	
	3550TKK100B	REAR COVER, PEARL WHITE		
2	3550TKK099A	SCREW COVER, STEALTH BLACK	4	
	3550TKK099B	SCREW COVER, PEARL WHITE		
3	3809TKL009G	BACK COVER ASS'Y, STEALTH BLACK	1	
	3809TKL009H	BACK COVER ASS'Y, PEARL WHITE		
4	4951TKS048B	METAL, MAIN FRAME ASS'Y	1	
5	6871TST143A	POWER PCB ASS'Y	1	
6	6871TMT164A	MAIN PCB ASS'Y	1	
7	4951TKK029B	METAL, REAR ASS'Y	1	
8	6633TZA003A	INVERTER ASS'Y	1	
9	4810TKK120A	BRACKET, INVERTER SUPPORTER	1	
10	6304TLT151H	LCD MODULE	1	
11	3091TKL013A	CABINET ASS'Y, STEALTH BLACK	1	
	3091TKL013C	CABINET ASS'Y, PEARL WHITE		
12	6871TST140A	CONTROL PCB ASS'Y	1	
13	3550TKK101A	CABLE COVER, STEALTH BLACK	1	
	3550TKK101B	CABLE COVER, PEARL WHITE		
14	3043TKK050D	TILT SWIVEL ASS'Y, STEALTH BLACK	1	
	3043TKK050E	TILT SWIVEL ASS'Y, PEARL WHITE		

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: 9493-AW1				DATE: 2000. 4. 15.	
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
MAIN BOARD					
CAPACITORS					
		C1	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C2	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C3	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C4	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C5	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C6	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C7	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C8	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C9	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C10	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C11	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C12	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C13	0CH6150K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 15PF 50V J NP0 2012 R/TP	
		C14	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C15	0CH6150K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 15PF 50V J NP0 2012 R/TP	
		C16	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C17	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C18	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C19	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C20	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C21	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C22	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C23	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C24	0CH6220K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 22PF 50V J NP0 2012 R/TP	
		C25	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C26	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C27	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C28	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C29	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C30	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C31	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C32	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C33	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C34	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C36	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C37	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C38	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C39	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C40	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C41	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C42	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C43	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C44	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C45	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C46	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C47	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C48	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C49	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C50	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C51	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C52	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C53	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C54	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C55	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C56	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C57	0CH6221K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 220PF 50V J NP0 2012 R/TP	
		C58	0CH6221K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 220PF 50V J NP0 2012 R/TP	
		C59	0CH3683K946	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 68000PF 50V Z F 2012 R/TP	
		C60	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C61	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C62	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C63	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C64	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C65	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C66	0CH7475F621	CAPACITOR, CHIP[TANTALUM], 4.7UF 16V M 3528 TP(-)	
		C67	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C68	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C69	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C70	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C71	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C72	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C73	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C74	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C75	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C76	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C77	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C78	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C79	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C80	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C81	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C82	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C83	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C84	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C85	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C86	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C87	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C88	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C89	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C90	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C91	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C92	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C93	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C94	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C95	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C96	0CH6220K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 22PF 50V J NP0 2012 R/TP	
		C97	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C98	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C99	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C100	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C101	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C102	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C103	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C104	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C105	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C106	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C107	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C108	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C109	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C111	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C112	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C113	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C114	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C115	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C116	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C117	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C120	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C121	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C122	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C123	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C124	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C125	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		C126	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C127	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C128	0CH6330K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 33PF 50V J NP0 2012 R/TP	
		C129	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C131	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C132	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C134	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C135	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C140	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C142	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C144	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		C180	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C181	0CH6100K116	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 10PF 50V D NP0 2012 R/TP	
		C182	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C183	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C184	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C187	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C188	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C190	0CH7475F621	CAPACITOR, CHIP[TANTALUM], 4.7UF 16V M 3528 TP(-)	
		C193	0CH7475F621	CAPACITOR, CHIP[TANTALUM], 4.7UF 16V M 3528 TP(-)	
		C194	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C195	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C196	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C197	0CH6101K416	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 100PF 50V J NP0 2012 R/TP	
		C199	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C200	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C201	0CH8107J611	CAPACITOR, CHIP[AL. ELECTROLYTIC], 100UF 35V M 85STD(CYL) R/TP	
		C210	0CH7475F621	CAPACITOR, CHIP[TANTALUM], 4.7UF 16V M 3528 TP(-)	
		C211	0CH7475F621	CAPACITOR, CHIP[TANTALUM], 4.7UF 16V M 3528 TP(-)	
		C223	0CH7106F621	CAPACITOR, CHIP[TANTALUM], 10UF 16V M 3528MM TP(-)	
		C224	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C227	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C229	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C230	0CH3103K516	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 10000PF 50V K B 2012 R/TP	
		C231	0CH3104K566	CAPACITOR, CHIP[CERAMIC LD-LESS HD], 0.1UF 50V K X 2012 R/TP	
		C232	0CH6102K406	CAPACITOR, CHIP[CERAMIC LD-LESS TC], 1000PF 50V J SL 2012 R/TP	
		C236	0CH7476F661	CAPACITOR, CHIP[TANTALUM], 47UF 16V M 7343 TP(-)	
		CA1	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA2	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA3	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA4	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA5	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA6	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA7	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA8	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA9	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA10	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA11	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA12	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA13	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA14	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA15	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA16	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA17	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
		CA18	0CHZTTA001A	CAPACITOR, CHIP, 10F 50V F 3216 4ARRAY REEL TDK	
DIODES					
		D1	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D2	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D3	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D4	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D5	0DS226009AA	DIODE, SWITCHING, KDS226 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D6	0DS181009AA	DIODE, SWITCHING, KDS181 TP KEC SOT-23 80V 300MA 2A 4NS 0.5UA	
		D8	0DS301109AA	DIODE, SWITCHING, MMBD301LT1 TP MOTOROLA SOT23 30V 13NA 200NA	
		D9	0DS301109AA	DIODE, SWITCHING, MMBD301LT1 TP MOTOROLA SOT23 30V 13NA 200NA	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		ZD1	0DZ560009DA	DIODE, ZENER, UDZ S 5.6B TP ROHM-K SOD323 200MW 5.6V 5MA .PF	
		ZD2	0DZ560009DA	DIODE, ZENER, UDZ S 5.6B TP ROHM-K SOD323 200MW 5.6V 5MA .PF	
		ZD3	0DZ560009DA	DIODE, ZENER, UDZ S 5.6B TP ROHM-K SOD323 200MW 5.6V 5MA .PF	
		ZD5	0DR190309AA	DIODE, RECTIFIER, MBRS190T3 TP MOTOROLA 403A-03 90V 1A 50A 10NS	
		ZD6	0DR340009AA	DIODE, RECTIFIER, MBRS340 TP FAIRCHILD NON 40V 3A 80A .SEC 2MA	
ICs					
		U1	0IMR882810B	IC, MACRONIX, MX88L281FC 256PQFP BK XGA LCD INTEGRATION CHIP	
		U2	0IMO386200A	IC, MOTOROLA, LSC3862DW 16PIN,SOIC TP OSD IC(LMOSD2) IBM FONT	
		U3	0IMP240800A	IC, MICRO CHIP TECHNOLOGY, 24LC08BT/SN 8P SOIC TP EEPROM	
		U4	0IZZTSZ077A	IC[HYBRID], OTP 42PIN BK L1571F	
		U5	0IAD988400A	IC, ANALOG DEVICE, AD9884 100P MQFP BK A/D CONVERTER	
		U6	0ICX636165A	IC, ETRON, EM636165TS-8 1MEGA X 16 SDRAM 125MHZ	
		U7	0ICX636165A	IC, ETRON, EM636165TS-8 1MEGA X 16 SDRAM 125MHZ	
		U8	0ICX636165A	IC, ETRON, EM636165TS-8 1MEGA X 16 SDRAM 125MHZ	
		U9	0IKE704200J	IC, KEC, KIA7042AF SOT-89 TP 4.2V VOLTAGE DETECTOR	
		U10	0IMP240200A	IC, MICRO CHIP TECHNOLOGY, 24LC02BT/SN 3.3K/ TP EEPROM	
		U11	0IMO140662A	IC, MOTOROLA, MC14066BDR2 14P,SOIC TP BILATERAL SWITCH	
		U12	0TF632509AA	FET, FDC6325L TP FAIRCHILD 8V 2.4A SMT6	
		U13	0INS267450A	IC, NATIONAL SEMICONDUCTOR, LM2674M-5.0 8SOP TP 0.5A 5V S/DOWN	
		U14	0IMI523470A	IC, MITSUBISHI, M52347FP 20P, SOP TP SYNC SIGNAL PROCESSOR	
		U15	0INS259650A	IC, NATIONAL SEMICONDUCTOR, LM2596-5V 5LEAD,TO263(S) TP 3A 5V S/D	
		U16	0IRH033200A	IC, ROH, BA033FP-E2 MOLD-3 TP REGULATOR	
		U17	0IMO741420B	IC, MOTOROLA, MC74HCT14ADR2 14P,SOIC TP LEVEL CONVERTER	
		U19	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
		U20	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
		U22	0ISS780500H	IC, SAMSUNG ELECTRONICS, KA78M05-R 3P,D-PAK TP 5V 0.5A REGULATO	
		U23	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
		U24	0IRH033200A	IC, ROHM, BA033FP-E2 MOLD-3 TP REGULATOR	
COILs & COREs					
		L1	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L2	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L3	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L4	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L5	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L6	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L7	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L8	6140TBZ016B	COIL, CHOKE, DR10*7(YL-9N) 220UH 0.32MM 75T LI571D	
		L9	6140TBZ007A	COIL, CHOKE, DR10*7(K-30) 100UH 0.4MM 34.5T SMD CHOKE(LCD)	
		L10	6210TCE001G	CORE (CIRC), BEAD, HH-1M3216-501 CERATEC 3216MM R/TP	
		L11	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L12	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L13	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L14	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L15	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L16	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L17	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L18	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L19	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L23	6210TCE001P	CORE (CIRC), BEAD, HB-1S2012-121JT CERATECH 2012MM R/TP	
		L24	6210TCE001E	CORE (CIRC), BEAD, HB-1M2012-800JT CERATEC 2012MM R/TP	
		L26	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		L27	6210TCT002B	CORE (CIRC), BEAD, ACB2012M-300-T TDK , CHIP BEAD,LCD	
		BA1	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA2	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA3	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA4	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA5	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA6	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA7	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA8	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA9	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA10	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		BA11	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA12	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA13	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA14	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA15	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA16	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA17	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA18	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA19	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA20	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA21	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA22	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA23	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA24	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA25	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA26	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA27	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA28	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA29	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA30	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA31	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA32	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA33	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA34	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA35	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA36	6210TCE002B	CORE (CIRC), BEAD, HB-4M3216-121JT CERATECH 3216MM R/TP	
		BA37	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA38	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
		BA39	6210TCE002C	CORE (CIRC), BEAD, HB-4M3216-201JT CERATECH 3216MM R/TP	
TRANSISTORS					
		Q1	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
		Q2	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
		Q3	0TR162309CA	TRANSISTOR, KSC1623 TP SAMSUNG SOT23 NPN EPI. SILICON TR	
RESISTORS					
		R1	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R2	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R3	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R4	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R5	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R6	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R7	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		R8	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R9	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R11	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R12	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R13	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R14	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R15	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R16	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R17	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R18	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R19	0RH0222D622	RESISTOR, CHIP, 22 1/10W 5 D.R/TP	
		R20	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R21	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R22	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R23	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R24	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	
		R25	0RH0472D622	RESISTOR, CHIP, 47 1/10W 5 D.R/TP	
		R26	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R27	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R28	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R29	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		R30	0RH3302D622	RESISTOR, CHIP, 33K 1/10W 5 D.R/TP	
		R31	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R32	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R33	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R34	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R35	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R36	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R37	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R38	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R39	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R40	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R41	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R42	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R43	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R44	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R45	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R46	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R47	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R48	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R49	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R50	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R51	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R52	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R53	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R54	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R55	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R56	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R57	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R58	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R59	0RH3302D622	RESISTOR, CHIP, 33K 1/10W 5 D.R/TP	
		R60	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R61	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R62	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R63	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R64	0RH0752D622	RESISTOR, CHIP, 75 1/10W 5 D.R/TP	
		R65	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R66	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R67	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R69	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R70	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R71	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R72	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R73	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R74	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R75	0RH0332D622	RESISTOR, CHIP, 33 1/10W 5 D.R/TP	
		R76	0RH1501D622	RESISTOR, CHIP, 1.5K 1/10W 5 D.R/TP	
		R77	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R78	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R79	0RH2202D622	RESISTOR, CHIP, 22K 1/10W 5 D.R/TP	
		R80	0RH1004D622	RESISTOR, CHIP, 1.0M 1/10W 5 D.R/TP	
		R81	0RH1500D622	RESISTOR, CHIP, 150 1/10W 5 D.R/TP	
		R88	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R89	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R94	0RH5602D622	RESISTOR, CHIP, 56K 1/10W 5 D.R/TP	
		R97	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R98	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R99	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R100	0RH4302D622	RESISTOR, CHIP, 43K 1/10W 5 D.R/TP	
		R101	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R102	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R103	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R104	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R106	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R107	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R108	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R109	0RH2201D622	RESISTOR, CHIP, 2.2K 1/10W P-TYPE TAPPING	

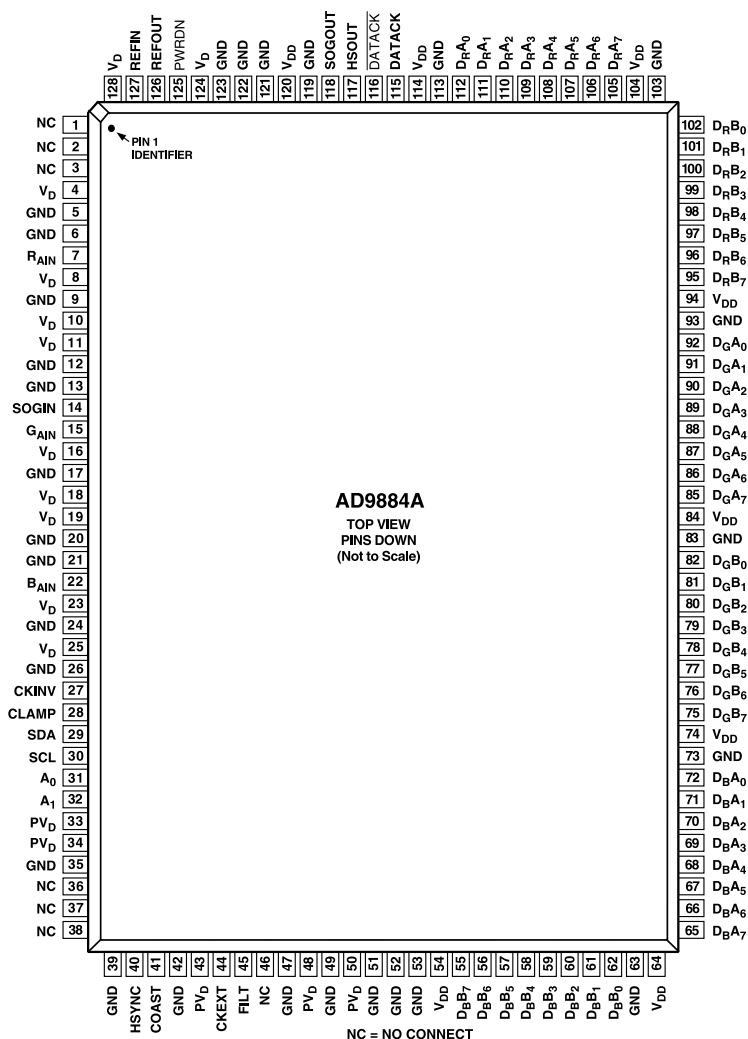
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	REMARK
		R110	0RH4702D622	RESISTOR, CHIP, 47K 1/10W 5 D.R/TP	
		R111	0RH2702D622	RESISTOR, CHIP, 27K 1/10W 5 D.R/TP	
		R117	0RH6800D622	RESISTOR, CHIP, 680 OHM 1 / 10 W 5% D R/TP	
		R121	0RH4700D622	RESISTOR, CHIP, 470 1/10W 5 D.R/TP	
		R122	0RH1002D622	RESISTOR, CHIP, 10K 1/10W 5 D.R/TP	
		R124	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R125	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R126	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R127	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R128	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R130	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R132	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R133	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R135	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
		R138	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R139	0RH4701D622	RESISTOR, CHIP, 4.7K 1/10W 5 D.R/TP	
		R141	0RH1000D622	RESISTOR, CHIP, 100 1/10W 5 D.R/TP	
OTHERs					
		X1	6202TST001A	CRYSTAL, SX-1 SUNNY ,SMS, 14.31818MHZ ,30PPM, 18PF, TP	
		X2	6202TST001E	CRYSTAL, SX-1 SUNNY CHIP 24MHZ 30PPM 20PF BK	
CONTROL BOARD					
		J5	6612TBH001A	JACK,DIN, TCS7547-01-401 HOSIDEN R/A 4P LI571D	
		LED1	0DL571300AA	LED, "SPR571MVW3 TP ROHM GREEN/RED ""10,10MCD""	
		SW1	140-058E	SWITCH, TACT, SKHV10910B LGEC NON 12V 20A HORIZONTAL 160G	
		SW2	140-058E	SWITCH, TACT, SKHV10910B LGEC NON 12V 20A HORIZONTAL 160G	
		SW3	140-058E	SWITCH, TACT, SKHV10910B LGEC NON 12V 20A HORIZONTAL 160G	
		SW4	140-058E	SWITCH, TACT, SKHV10910B LGEC NON 12V 20A HORIZONTAL 160G	
		SW5	140-058E	SWITCH, TACT, SKHV10910B LGEC NON 12V 20A HORIZONTAL 160G	
MISCELLANEOUS					
△		LCD	6304TLT151H	LCD(LIQUID CRYSTAL DISPLAY), "LGE TFT LCD LM151X2-F2MN 15.1"	
△		INVETER	6633TZA003A	INVERTER ASSY, "SAMSUNG LG1501 FOR 15.1"" LCD MNT(LG501)"	
△		ADAPTER	6634TBZ009A	ADAPTER,AC-DC, PSCV360107A SAMSUNG 100-240V 24V 1.5A FOR IBM	
		S/CABLE	6866TDV001A	SIGNAL CABLE, UL 2990-9C DT 3000MM PEARL WH LI571D(DVIA-VGA) DM	
		S/CABLE	6866TDV001B	SIGNAL CABLE, UL 2990-9C DT 3000MM STEALTH BLACK (DVIA-VGA)	

PIN CONFIGURATION

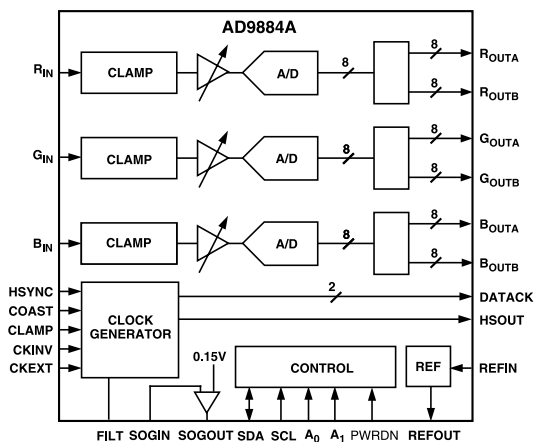
AD9884A

100MSPS/140MSPS Analog Flat Panel Interface

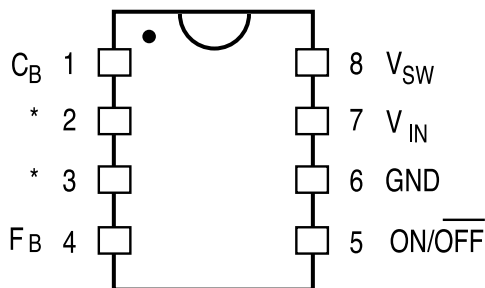
Pin Configurations



Functional Block Diagram

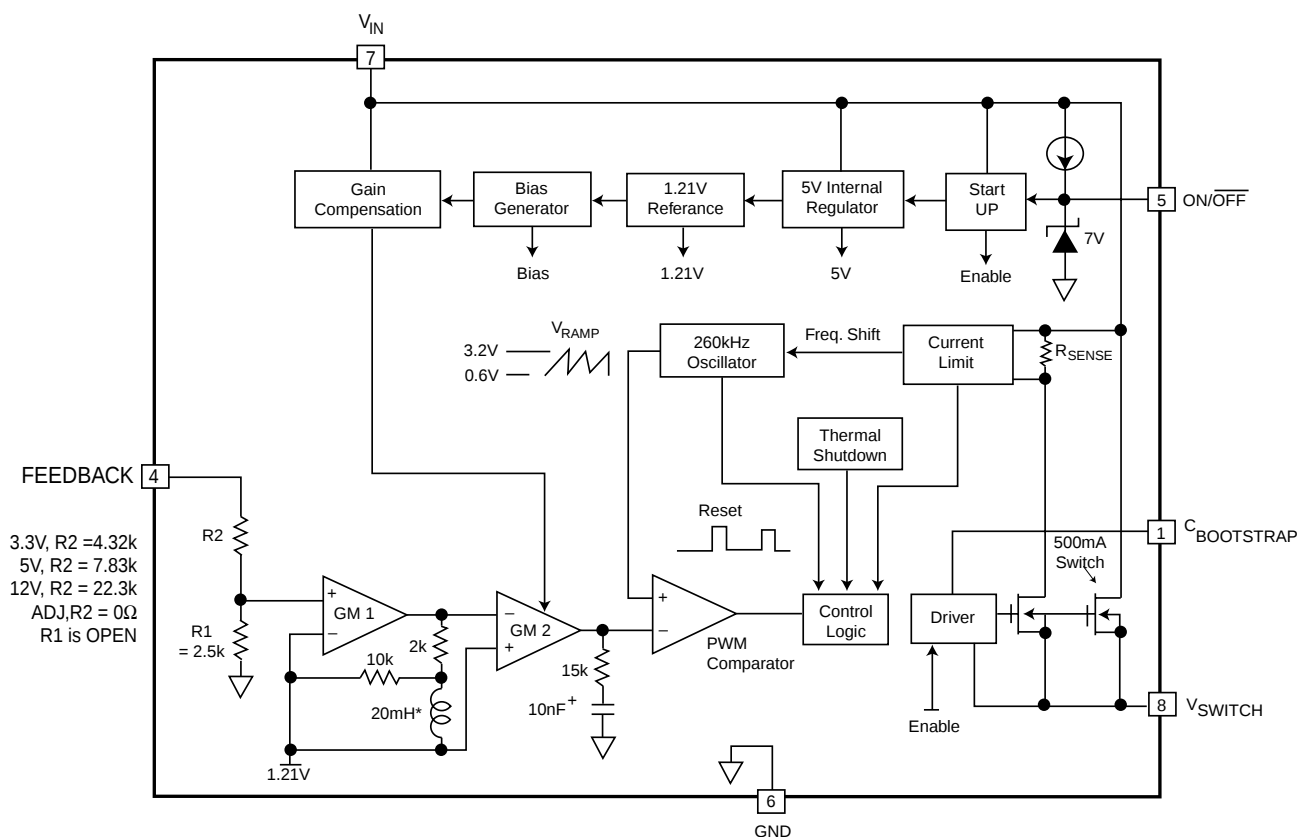


Pin Configuration



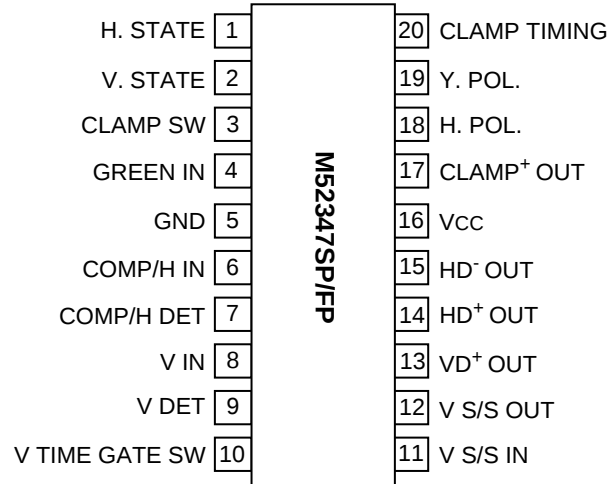
Top View

Block Diagram

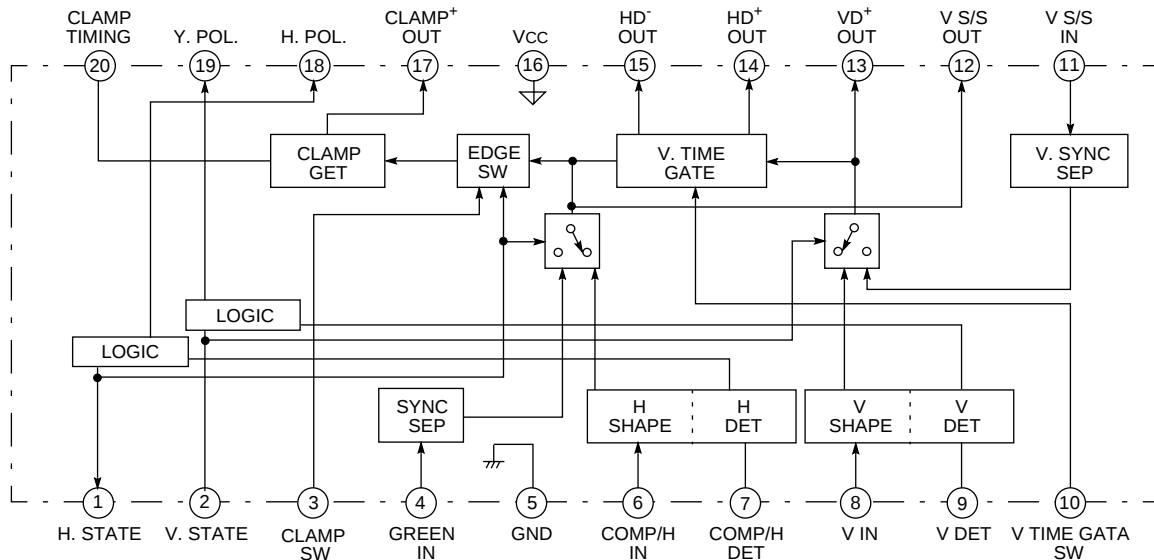


M52347 SYNC SIGNAL PROCESSOR

Pin Configuration



Block Diagram

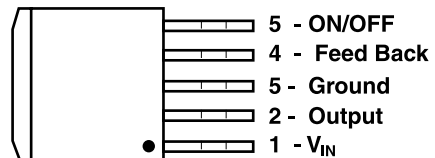


LM2596 Simple Switcher® Power Converter 150kHz 3A Step-Down Voltage Regulator

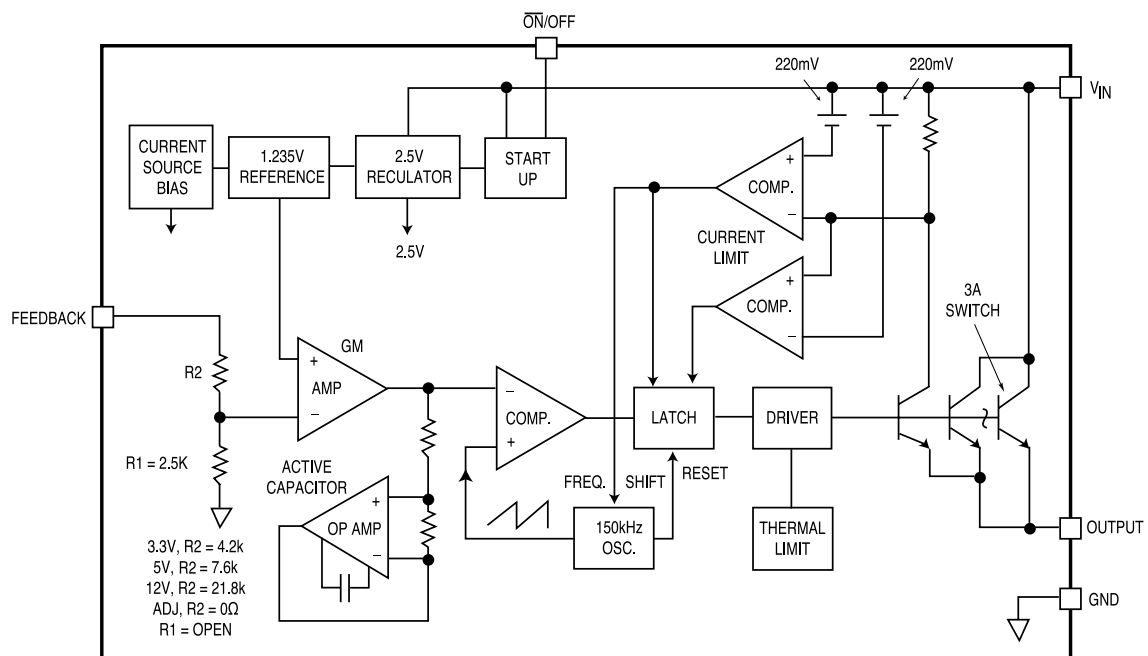
Side View

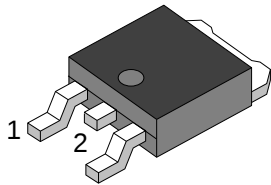
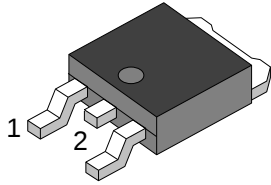
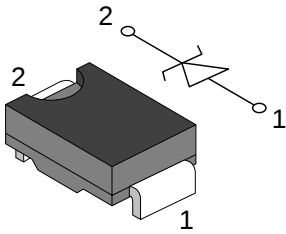
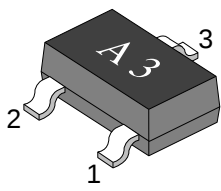
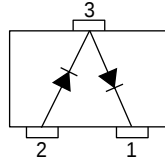
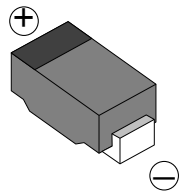
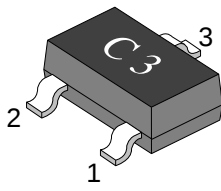
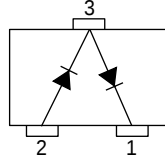
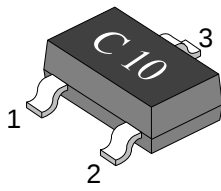


Top View

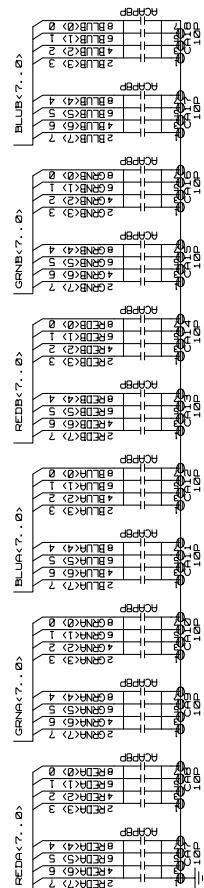


BLOCK DIAGRAM

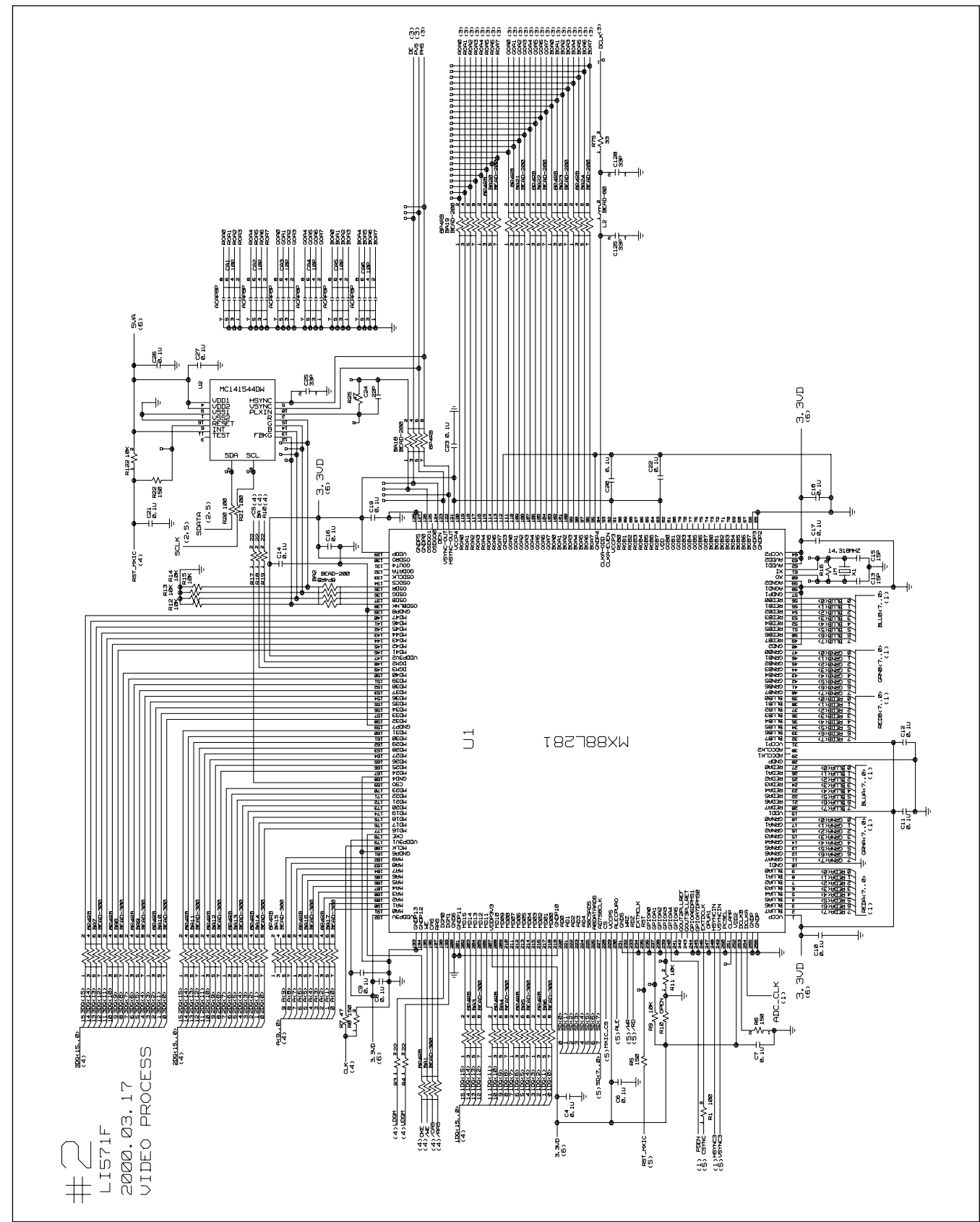


TYPE	PARTS	TYPE	PARTS
 1. INPUT 2. GND 3. OUTPUT  1. Vcc 2. GND 3. OUT	Regulator KA78M05R KA78M12R		Schottky Diode MBRS130T3 MBRS190T3
	BA033FP	 1. CATHODE 1 2. CATHODE 2 3. ANODE	Diode KDS181 
	Tantalum Capacitor 0CH7106F621 10uF/16V 0CH7227F661 220uF/6.3V 0CH7476F661 47uF/10V	 1. CATHODE 1 2. ANODE 2 3. ANODE 1 / CATHODE 2	Diode KDS226 
		 1. BASE 2. EMITTER 3. COLLECTOR	Transistor KSC1623

1. AD9884 (PRE-AMP/PLL/ADC)

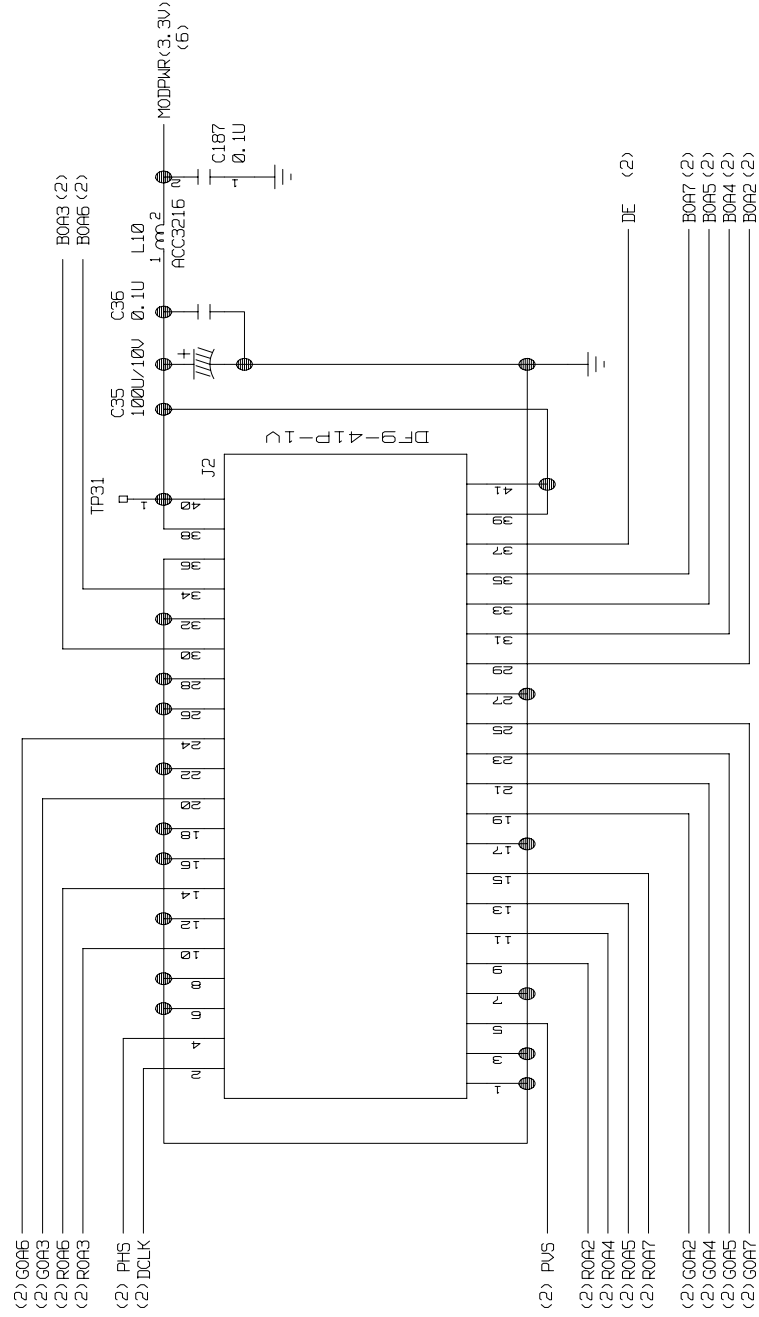


2. VIDEO PROCESS

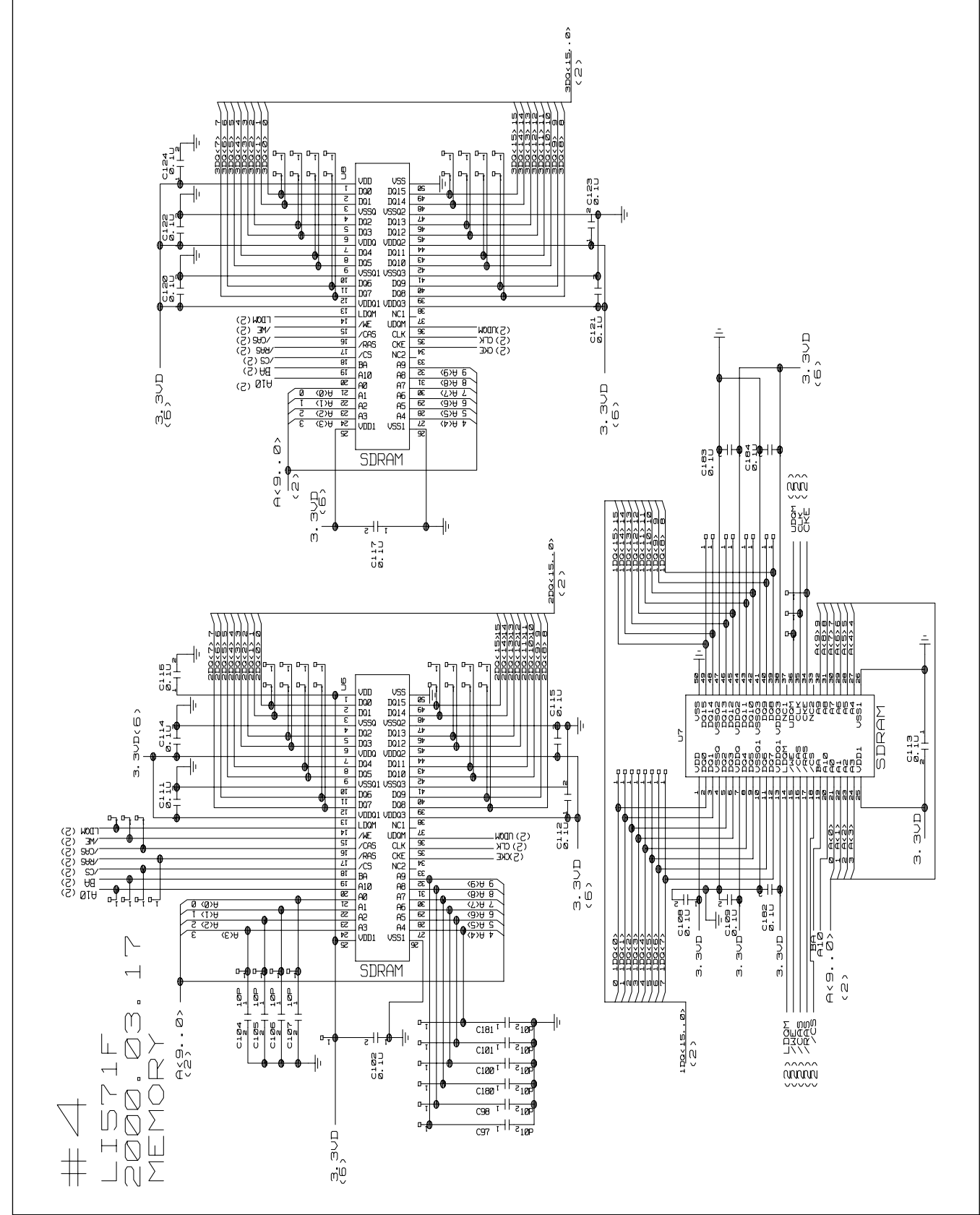


3. OUTPUT CONNECTOR

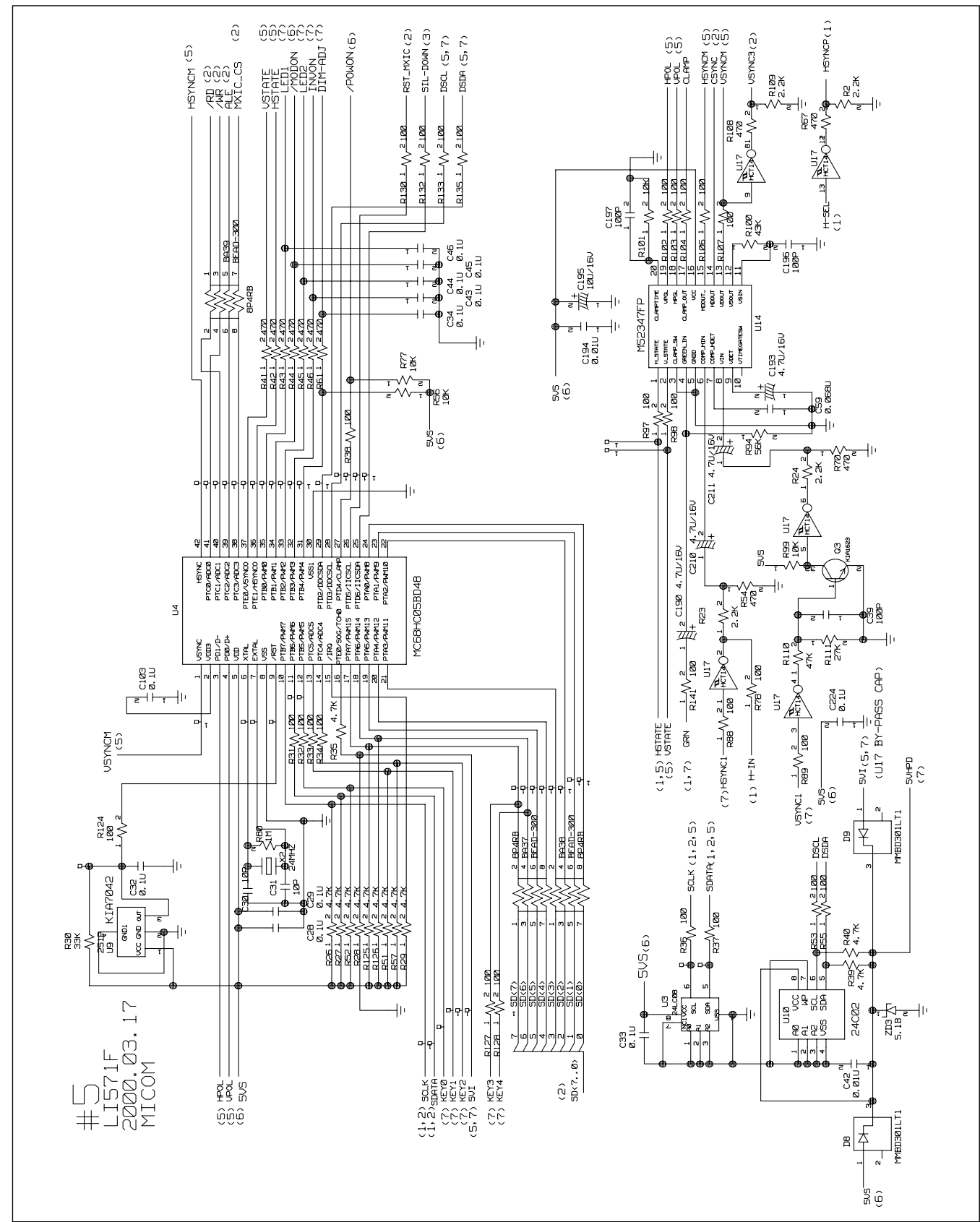
#3 LI571F
2000.03.17
OUTPUT CONNECTOR



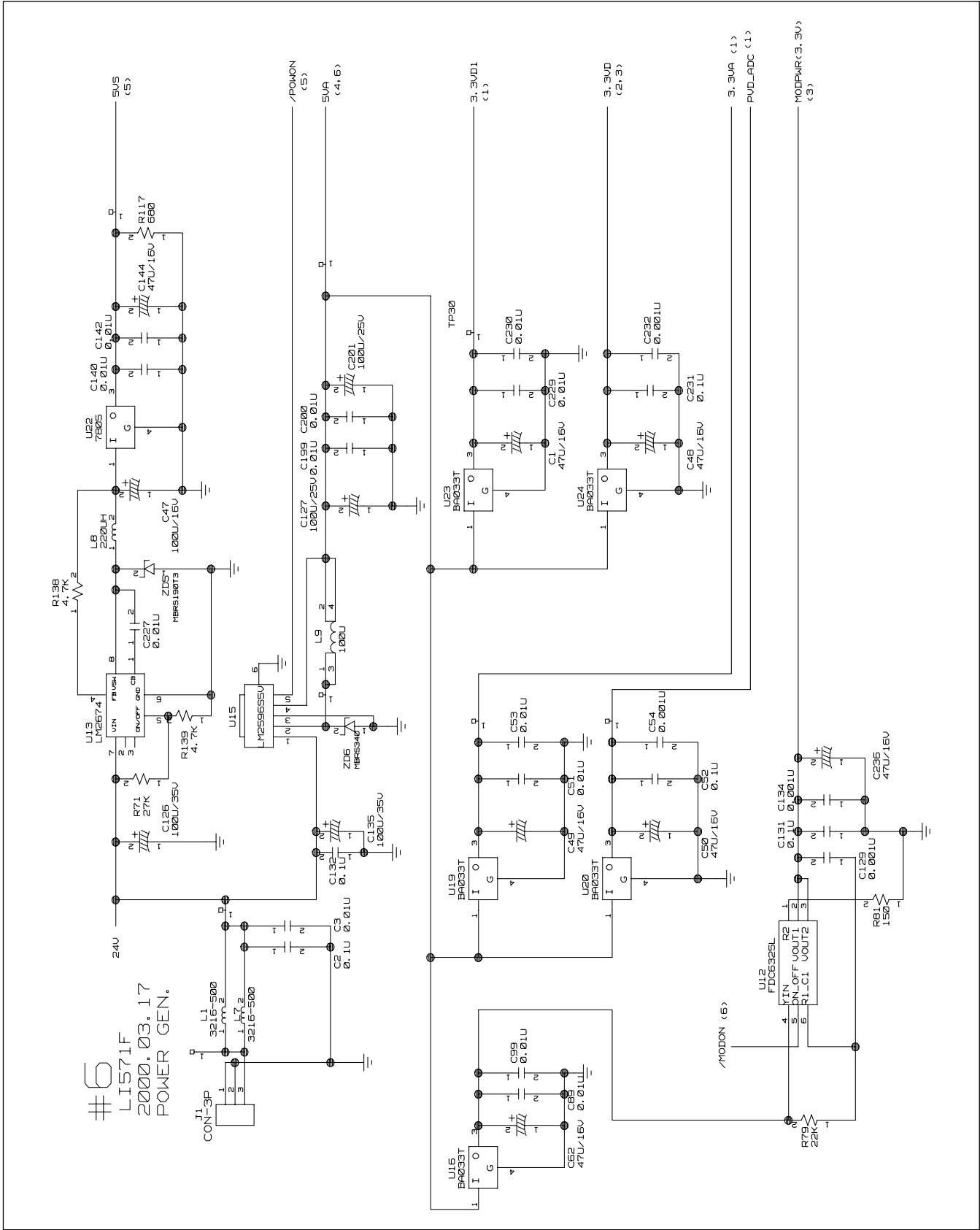
4. MEMORY



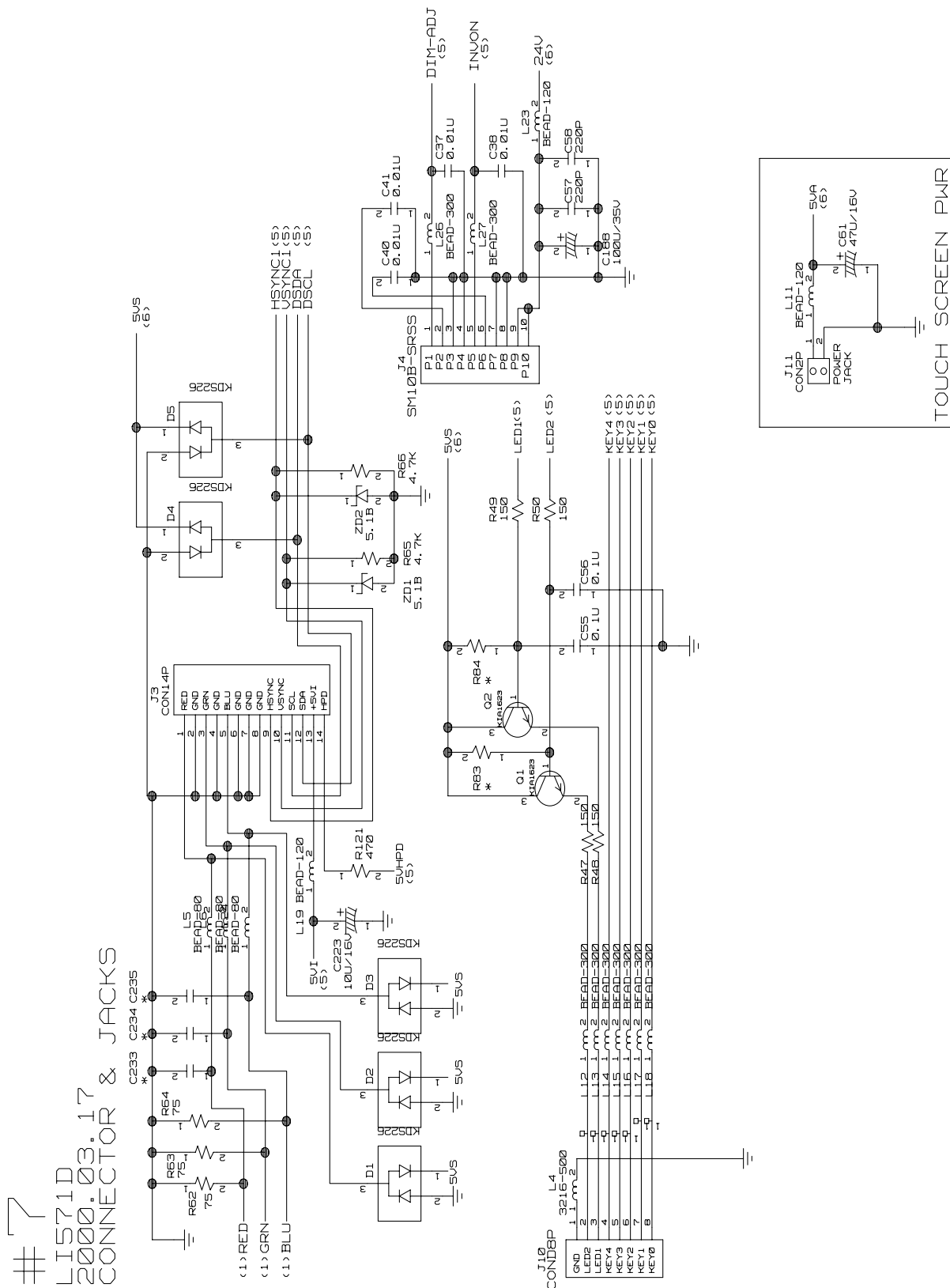
5. MICOM



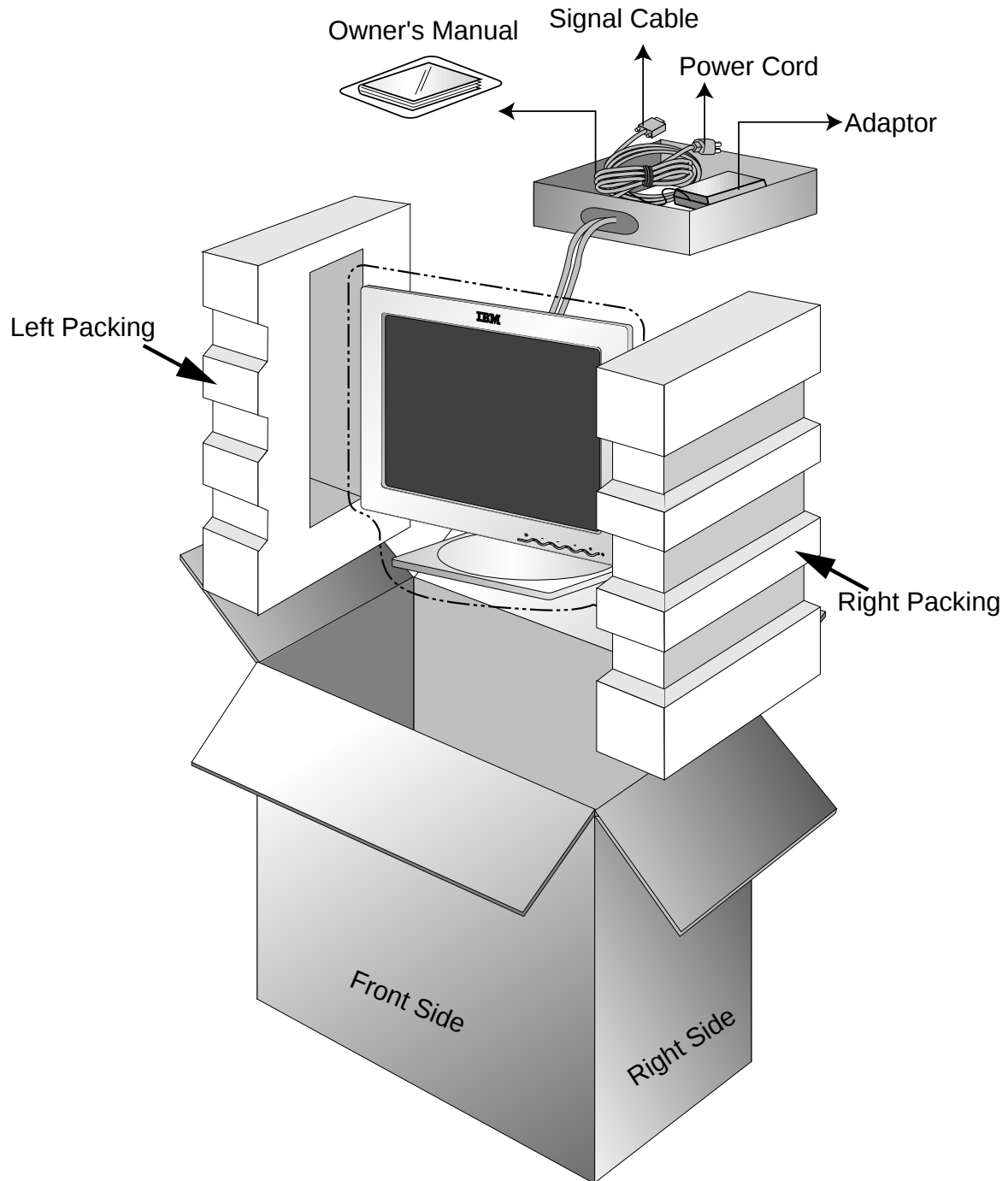
6. POWER GEN.



7. CONNECTOR & JACKS



PACKING AND ACCESSORIES





Apr. 2000

Printed in Korea

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