Notebook PC Service Manual

Model : 340S2

UNIWILL COMPUTER CORP.

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Chapter 1
General System Description

UNIWILL TECHNOLOGY CORP.

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1.1 System features

1.1.1 General features

a. Support cost efficient CPU,
   - Celeron-128K 500~700 MHz in PPGA type
   - Pentium III 500~850 MHz in FC-PGA type
b. Superior portability with all in one design
c. Support high quality audio include 2 internal high power speaker
d. Fully Support ACPI 1.0, meet PC98/PC99 requirement
e. Built-in 56K modem for Data/Fax/Voice modem or Internet (optional)
f. Support high performance hardware 2D/3D graphic engine
g. Support high capacity memory up to 512 MB
h. Support one most flexibility of 32-bit Cardbus slot and PCMCIA card

1.1.2 Hardware specification

A. CPU:

Celeron-128K 500MHz to 700MHz

- System bus frequency at 66 MHz
- Dynamic execution microarchitecture
- MMX technology capability
- Optimized for 32 bits AP and OS
- Power Management capability
- Integrated 32KB instruction and data L1 cache
- Integrated 128 KB instruction and data L2 cache

Pentium III 500MHz and 850MHz

- System bus frequency at 100MHz
- On-die 256KB L2 advanced transfer cache with ECC
- Dual independent bus architecture
- SIMD extensions for enhanced video, sound and 3D performance

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- Dynamic execution micro architecture
- Power management capability
- Optimized for 32bits AP and OS
- Integrated 16KB instruction and 16KB data L1 cache
- 256bit cache data bus
- 8-way cache associatively
- ECC for system bus data

B. Core Logic

SIS 630

- Support 66/100 MHz FSB
- Power management capability
- Integrated AGP bus 2D/3D video processor
- Direct DVD MPEG-2 and AC-3 playback
- Accelerator for Direct 3D API
- Frame buffer share system memory up to 32MB
- Support PC100 VCM SDRAM
- Full support of ACPI and OS directed power management
- Integrated IDE controller support 2 channel ultra DMA transfers up to 66 MB/sec
- Integrated USB root hub
- Integrated audio controller with 64-voices Direct Sound channel support
- Integrated HSP modem
- Forwards PCI I/O and memory cycles into LPC bus

C. PCMCIA Controller

O2 Micro OZ6812

- ACPI-PCI bus power management interface specification Rev.1.0 compliant
- Compliant with PCI specification V2.1S, 1995 PC Card Standard and JEIDA 4.1
- Supports PCMCIA ATA specification
- Supports 5V/3.3V PC Cards and 3.3V Cardbus Cards
- Supports single PC card or Cardbus slot with hot insertion and removal
- Supports multiple FIFOs for PCI/CB data transfer
- Supports Direct memory access for PC/PCI and PC/Way on PC Card socket
- Win98IRQ and PC-97/98 compliant
- Integrated PC98 Subsystem Vendor ID support with auto lock bit

D. Embedded Controller / Keyboard Controller

NS PC87570

- Hot key for brightness, volume control
- ACPI controller
- SMB bus for smart battery
- Support Win-95 defined 3 new keys and down load-able key-matrix

E. Super I/O Controller

NS PC87393

- LPC System Interface with synchronous cycles, up to 33 MHz bus clock
- PC99 and ACPI Compliant

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- Floppy Disk Controller (FDC)
- Support SPP, EPP and ECP Parallel port
- Software compatible with the 16550A and the 16450 serial port
- HP-IR, ASK-IR, Fast-IR support

F. Clock Generator

Realtek W83194R-630

- Multiple CPU clocks for SDRAM architecture
- Provide power down mode in slowing down CPU clock
- Spectrum modulation reduce EMI
- Provide programmable clocks

G. DSTN Encoder

NS CS9211

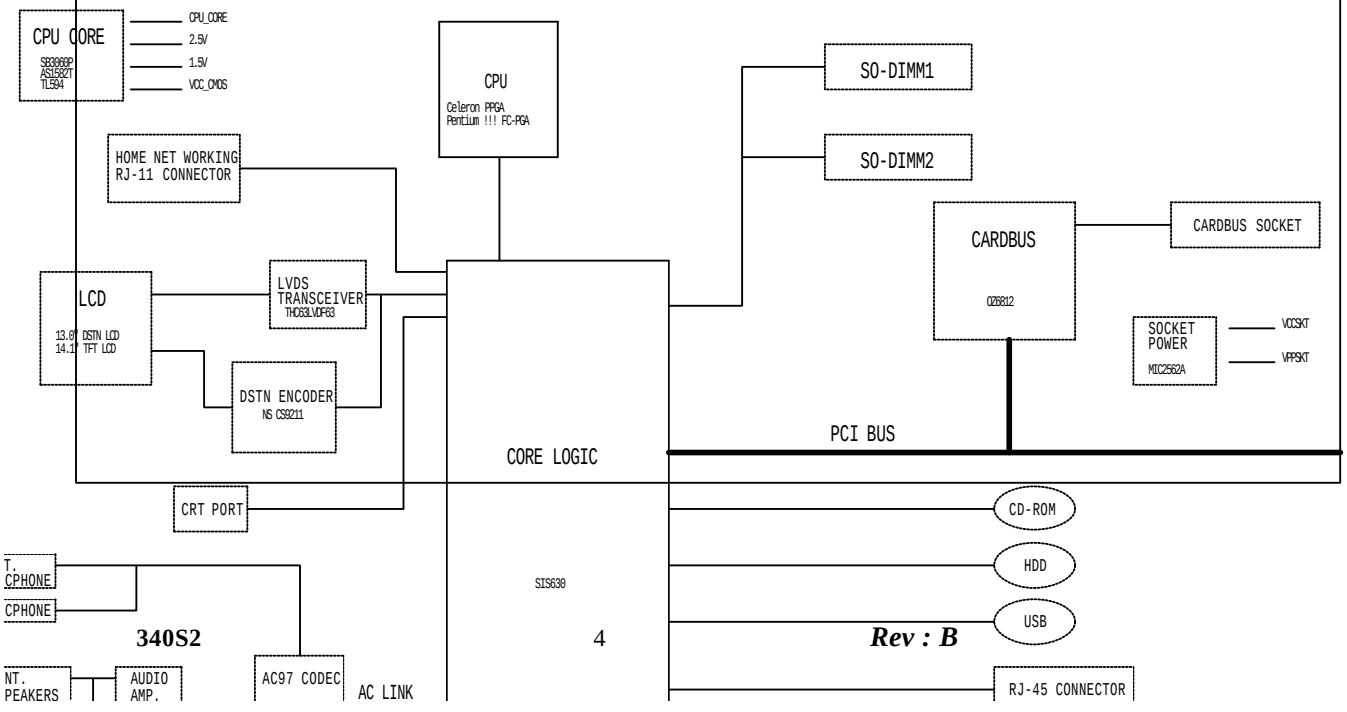
- Support 18 bits color digital pixel input
- Support SVGA DSTN and VESA FPDI SPEC.
- Programmable dither up to 64 levels
- Built in memory controller support both SDRAM and EDO RAM

1.2 System Specification

1.2.1 System Board

The major components of the computer include the system board, XGA color LCD display, FDD module,CD-ROM module (24X rotational speed max) / DVD module, keyboard, built-in glide pad with 2 click buttons, Lithium-ION battery pack, and AC adapter.

The system board incorporates CPU module, system memory, system and VGA BIOS, audio controller, CPU/ PCI bus controller, PCI / ISA bus controller. The **System Block Diagram** shows how these components are integrated as shown in the next page.



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1.2.2 LCD Display

14.1" TFT
13.3" TFT
12.1" TFT
13.0" HPA
12.1" HPA

1.2.3 Power Plans

Power Source Descriptions

+5V : 5V power source
+3V : 3.3V power source
+12V : 12V power source
CPU_Core : CPU Core power source.
For Celeron, the voltage is 2.0V.
For Pentium III, it is 1.8V.
+1.5V : CPU AGTL+ termination power source
VCC_CMOS : CPU CMOS pull up voltage.
For Celeron, the voltage is 2.5V.
For Pentium III, it is 1.5V.
+2.5V : 2.5V power source
+1.8V : 1.8V power source for SIS630
KBVCC : KBC 3.3V power source
KBVCCA : KBC AD/DA 3.3V reference voltage
VCCRTC : Real time clock power source
+5V_AUX : LAN 5V always power source
+3V_AUX : LAN 3.3V always power source
+3V_RX_TR : LAN 3.3V analog power source
+3V_TX_TR : LAN 3.3V analog power source
LCDVCC : LCD display 3.3V power source
VIN : Inverter 12~20V power source
ADAP+ : 20V Power supply from AC adapter
AMPVDD : 5V analog power for audio

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1.2.4 Power Source Status

	5V	3.3V	12V	CPU _core	VCC_ CMOS	2.5V	1.5V	1.8V
FULL-ON	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
SLEEP	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**	**ON**
STD	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
SOFT-OFF	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**

1.2.5 DC/DC Board

The DC/DC (system power) can support +3.3V, +5V, +12V for the main system.

The DC/DC (CPU power) can support +1.3V~2.05V, +1.8V, +2.5V for the CPU.

1.2.6 AC-DC Adapter

Input Voltage : 100 ~ 240 ±10% AC
Input Frequency : 50 ~ 60 Hz ±3Hz
Input AC current : 1.5 @ 90 VAC
Efficiency : Better than 80%
Inrush Current : 50A @ 115VAC, 100A @ 230VAC
Holdup Time : 5mS (minimum)
Output Voltage/Current : 20V / 3.0A
Output Load Regulation : ±5%

1.2.7 Inverter

Input Voltage : 9-22 VDC
Output Voltage : 620 Vrms @ 50-60KHz
Start Up Voltage : 1400 Vrms (min.)
Brightness Adjust Range (tube current) : 2.5mA rms – 5mA rms
Protection : Open circuit protect, current limit protect

1.2.8 Battery Pack

A. Lithium – Ion Battery packs

- Battery type : Li-Ion
- Battery cells : 8 cells

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- Battery Spec : 14.8V, 3200 mAH
- Battery power : 53 watts (total)
- Battery protection : over charge protect, over discharge protect, over temperature protect, short protect, over current protect

B. Ni-MH battery packs

- Battery type : Ni MH
- Battery cells : 10 cells
- Battery specs : 12V, 4500 mAh
- Battery power : 54 watts (total)
- Battery protection : over charge protect, over discharge protect, over temperature protect, short protect, over current protect

1.2.9 Memory Module

144 pins SO-DIMM, 3.3V, SDRAM

memory type = 1Mx16, 4Mx16, 16Mx16, 2Mx8, 8Mx8, 16Mx8

memory size = 16M, 32M, 64M, 128M,

memory clock = 66 MHz / 100MHz

Memory Configuration Table

DIMM 1	DIMM 2	Total
16M	0	16M
32M	0	32M
64M	0	64M
128M	0	128M
16M	16M	32M
16M	32M	48M
32M	32M	64M
16M	64M	80M
32M	64M	96M
64M	64M	128M
64M	128M	192M
128M	128M	256M

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1.2.10 Interrupt Request Channel

Setting	Hardware using the setting
00	System timer
01	Standard 101/102-Key Microsoft Natural Keyboard
02	Programmable Interrupt Controller
03	IrDA V3.0 Fast Infrared Port
04	Communications Port (Com1)
06	Standard Floppy Disk Controller
07	ECP Printer Port (LPT1)
08	System CMOS/ Real Time Clock (RTC)
09	ACPI IRQ Holder for PCI IRQ Steering
09	SiS 900 PCI Fast Ethernet Adapter
10	ACPI IRQ Holder for PCI IRQ Steering
10	HAMR 5600 Voice Modem
10	O2Micro OZ6812 CardBus Controller
10	SIS 7018 Audio Driver
11	ACPI IRQ Holder for PCI IRQ Steering
11	SIS 7001 PCI to USB Open Host Controller
11	SIS 7001 PCI to USB Open Host Controller
11	SCI IRQ used by ACPI bus
12	Microsoft PS/2 Port Mouse
13	Numeric data processor
14	SIS 5513 Dual PCI IDE Controller
14	Primary IDE Controller (dual FIFO)
15	Intel 82371AB/EB PCI Bus Master IDE Controller
15	Secondary IDE Controller (dual FIFO)

1.2.11 DMA Channel

Setting	Hardware using the setting
01	IrDA V3.0 Fast Infrared Port
02	Standard Floppy Disk Controller
03	ECP Printer Port (LPT1)
04	Direct memory access controller

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1.2.12 System LED Indicator

- Num-lock (on/off)
- Cap-lock (on/off)
- Scroll-Lock (on/off)
- FDD (on/off)
- HDD (on/off)
- CDROM (on/off)
- Power (on/off)
  When the system is powered on, the Power LED will be lighted on.
  When 'Battery Low Warning' occurs, the Power LED will flash at a rate of 1 time every 16 second.
  When 'Battery Very Low Warning' occurs, the Power LED will flash at a rate of 1 time every 4 seconds if there is no 'Suspend to Disk' partition in the hard disk.
- Charge (flash/off): Will be flashing when the battery pack is being charged.

1.2.13 Hot Key:

Key combination	Function
Fn + F1	Standby Mode
Fn + F3	Mute battery warning beep
Fn + F4	Toggle LCD / CRT display
Fn + F5	Volume increase
Fn + F6	Volume decrease
Fn + F7	Brightness up
Fn + F8	Brightness down
Fn + F9	Contrast up (for DSTN LCD)
Fn + F10	Contrast down(for DSTN LCD)

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Chapter 2
Connectors and Switches

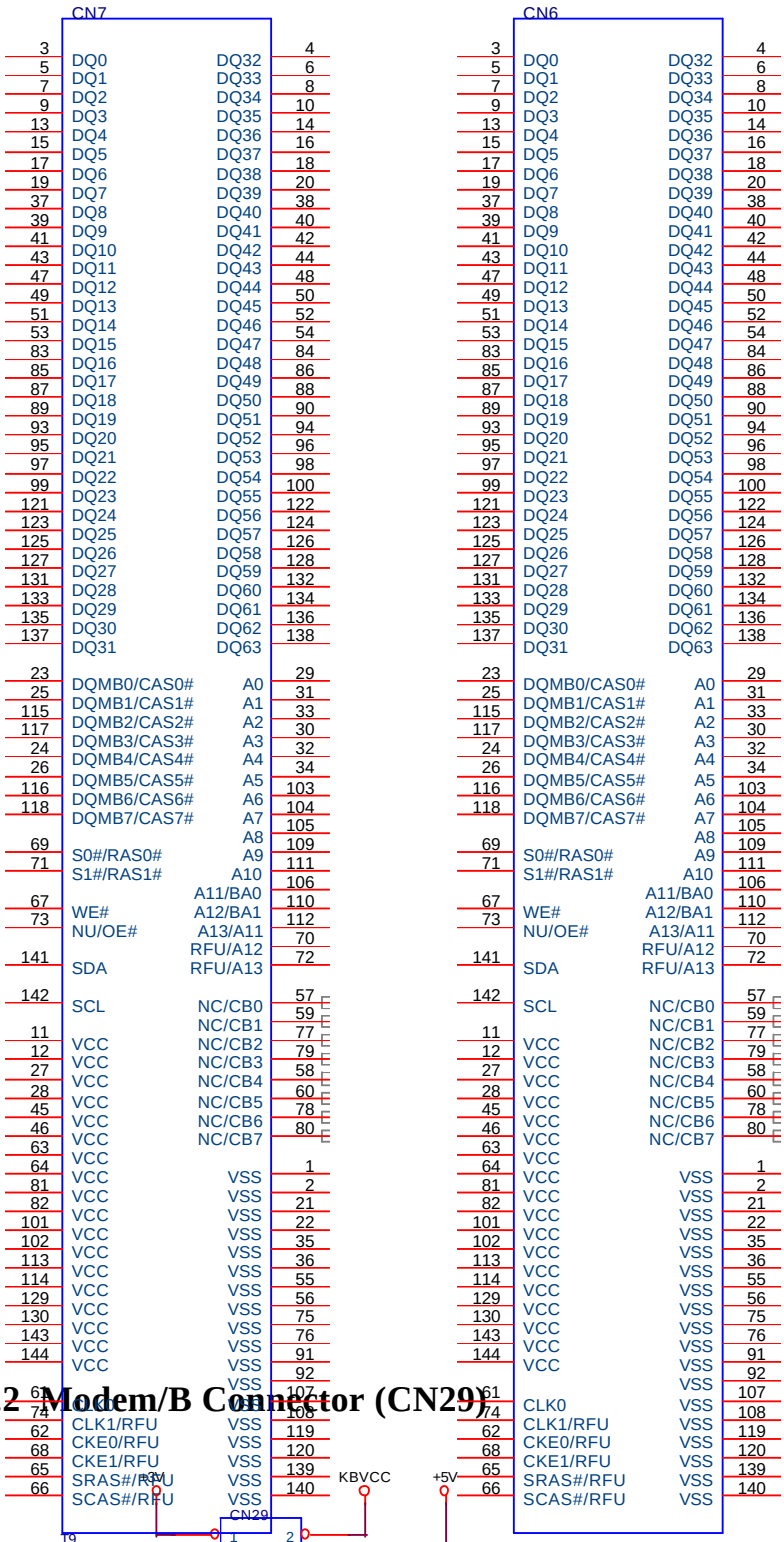
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2.1 Connector Definitions

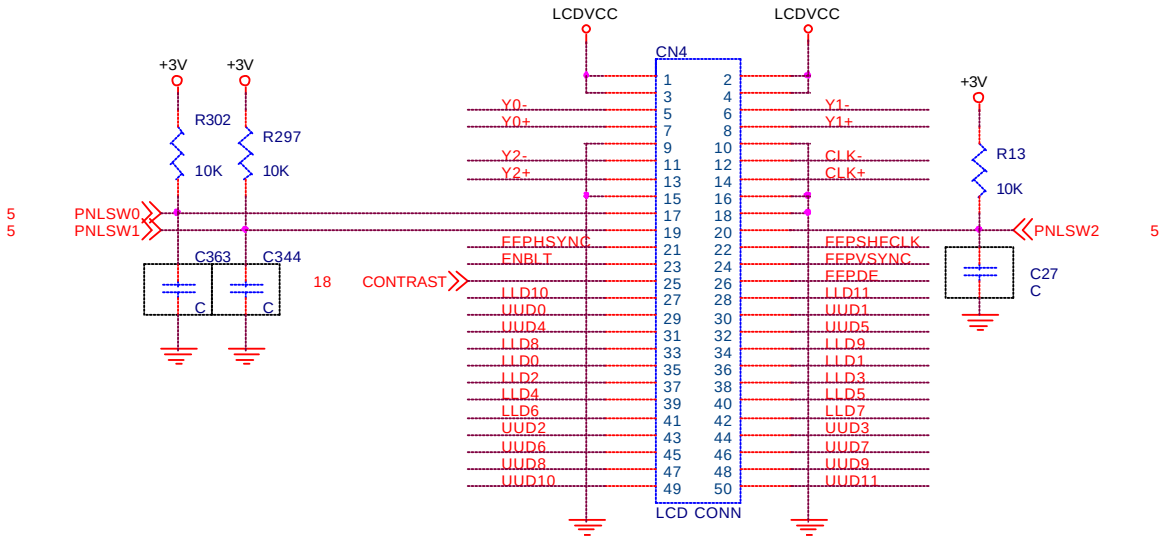
2.1.1 Memory DIMM144 Connector (CN7 and CN6)



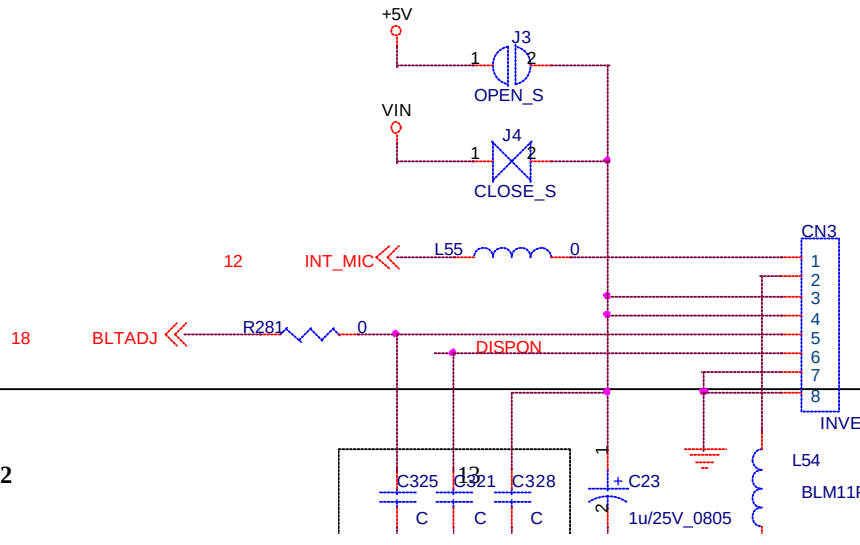
2.1.2 Modem/B Connector (CN29)

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2.1.3 LCD Connector (CN4)



2.1.4 Inverter Connector (CN3)



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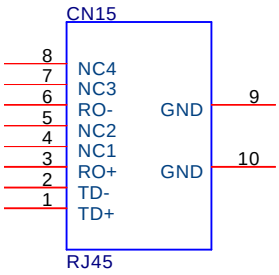
2.1.5 CRT Connector (CN20)

Pin	Description	Pin	Description
1	RED	9	+5V
2	GREEN	10	GND
3	BLUE	11	NC-
4	NC	12	DDCCLK
5	GND	13	HSYNC
6	DACGND	14	VSYNC
7	DACGND	15	DDCDATA
8	DACGND		

2.1.6 USB Connector (CN21)

Pin	Description
1	+5V
2	USBP0-
3	USBP0+
4	GND

2.1.7 RJ45 (CN15)

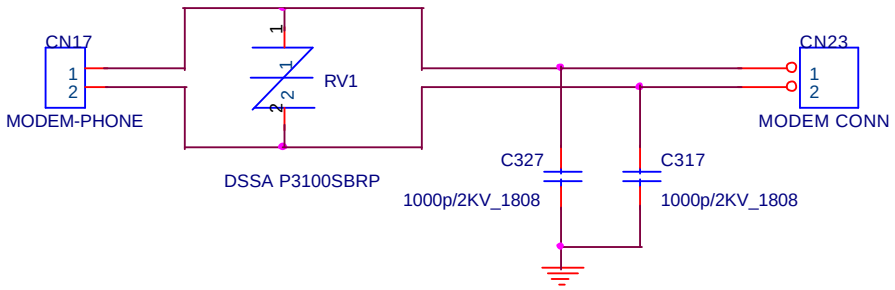


2.1.8 RJ11 (CN16)

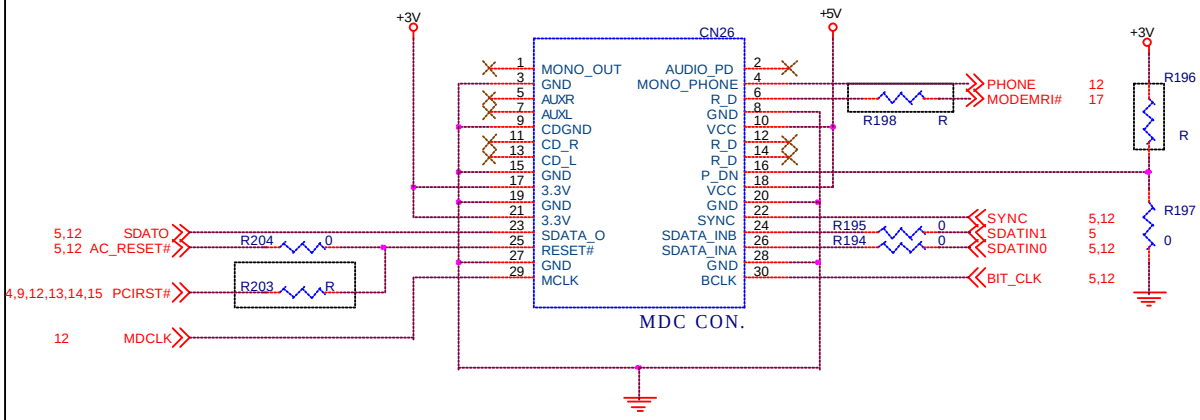
Pin	Description
1	HRTXRXN
2	HRTXRXP

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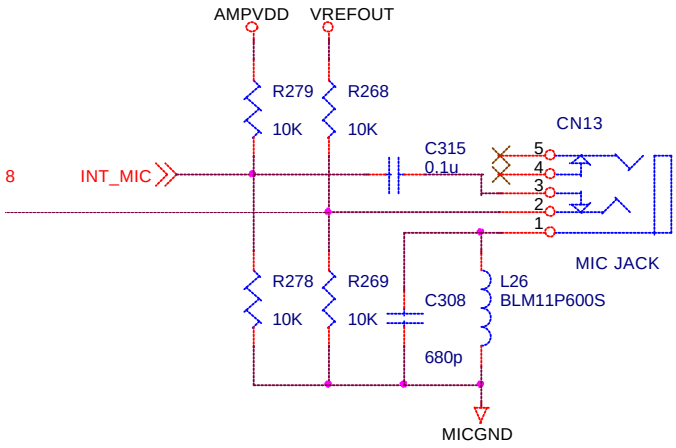
2.1.9 Modem Phone (CN17) and Modem Connector (CN23)



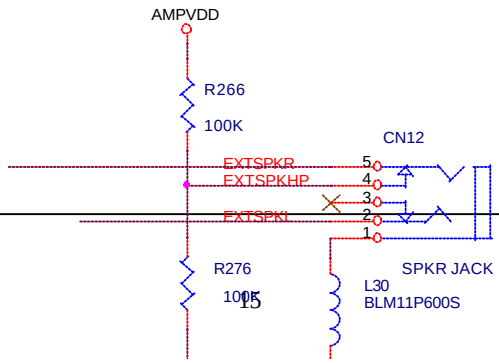
2.1.10 MDC Connector (CN26)



2.1.11 MIC Jack (CN13)

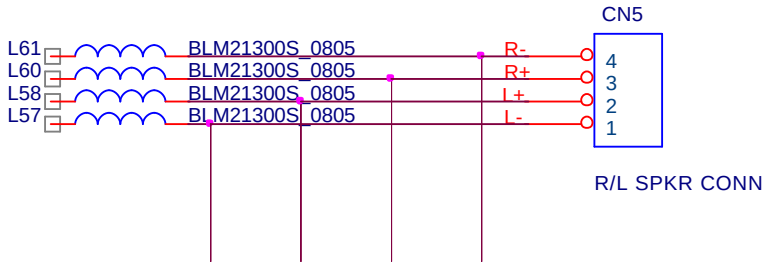


2.1.12 Speaker Jack (CN12)

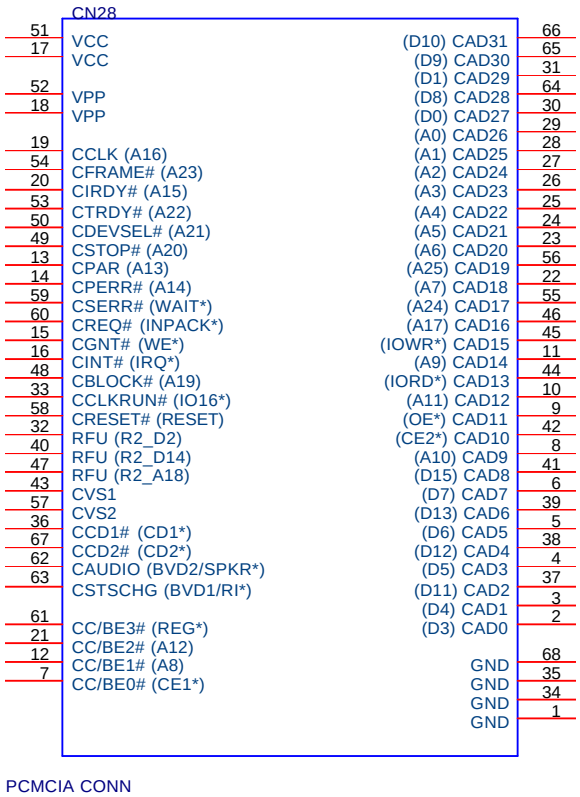


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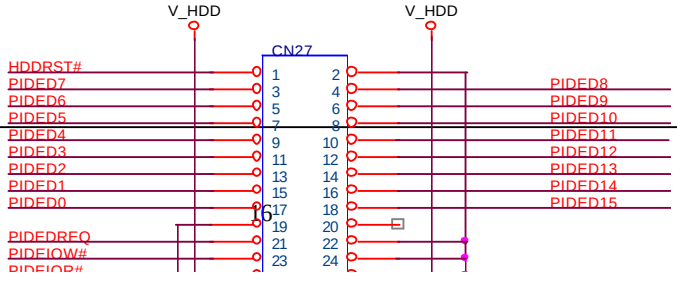
2.1.13 R/L Speaker Connector (CN5)



2.1.14 PCMCIA Connector (CN28)

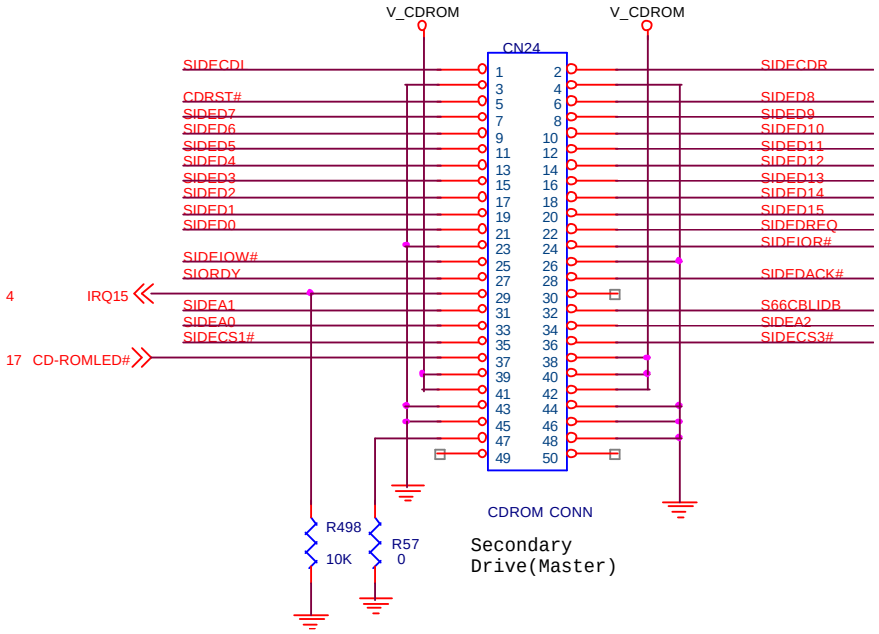


2.1.15 HDD Connector (CN27)

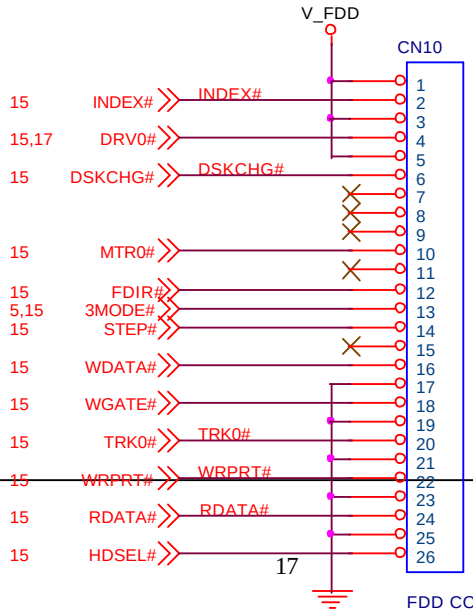


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2.1.16 CDROM Connector



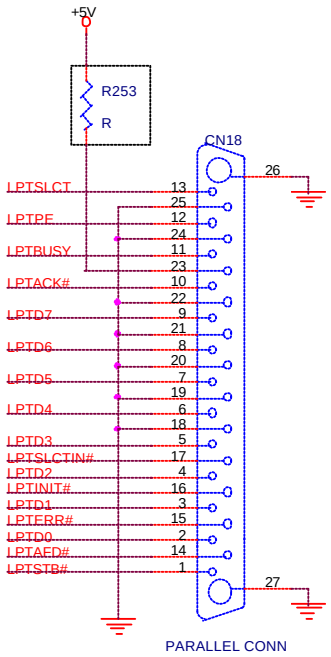
2.1.17 FDD Connector (CN10)



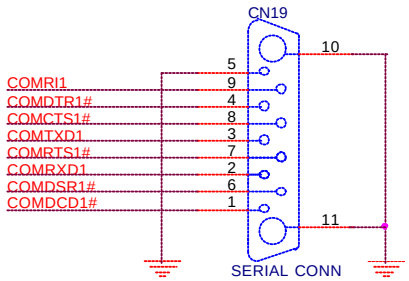
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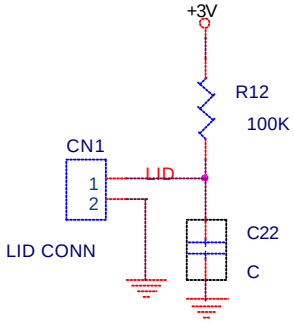
2.1.18 Parallel Connector (CN18)



2.1.19 Serial Connector (CN19)

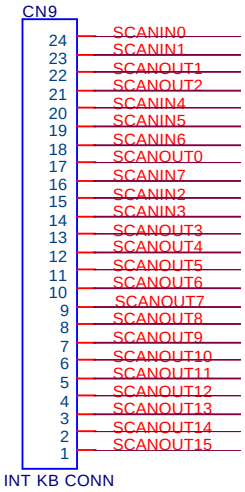


2.1.20 LID Connector (CN1)

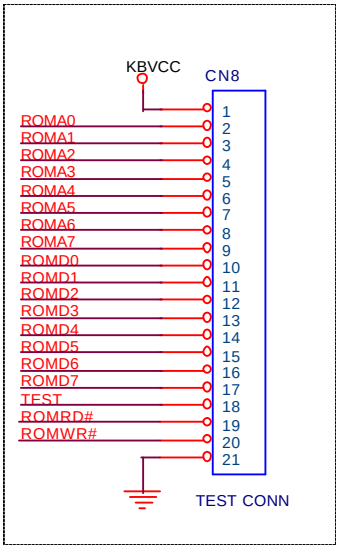


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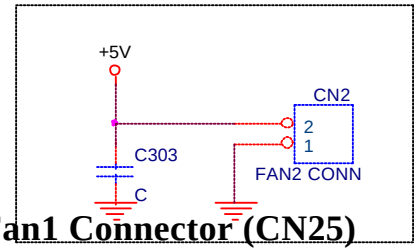
2.1.21 Internal KB Connector (CN9)



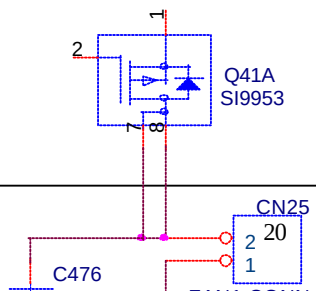
2.1.22 Test Connector (CN8)



2.1.23 Fan2 Connector (CN2)

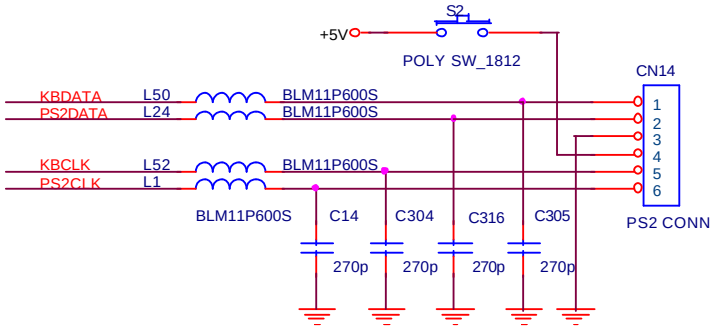


2.1.24 Fan1 Connector (CN25)

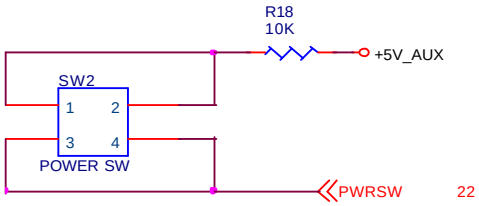


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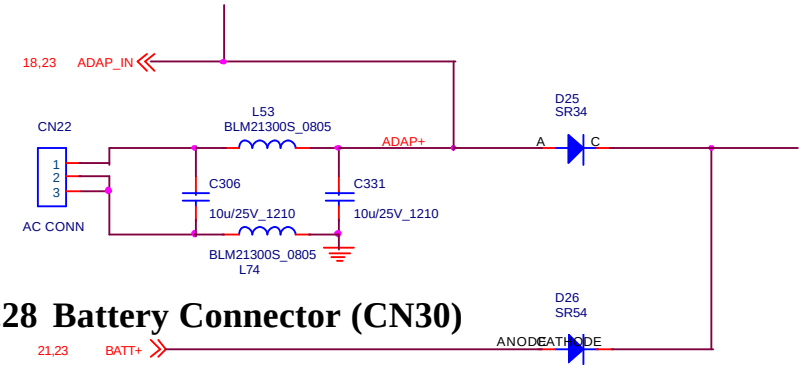
2.1.25 PS2 Connector (CN14)



2.1.26 Power Switch (SW2)



2.1.27 AC Connector (CN22)



2.1.28 Battery Connector (CN30)

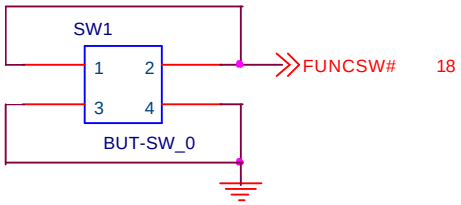
Pin No.	Pin Name
1	BATT+
2	SMBCLK
3	SMBDATA
4	TEMP
5	+5V_AUX
6	GND
7	NC
8	NC

2.1.29 Touch Pad Connector (CN11)

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Pin No.	Pin Name
1	PSCLK3
2	PSDAT3
3	GND
4	NC
5	+5V
6	NC

2.1.30 But_SW_0 (SW1)



2.2 Mechanical Buttons and Switch Definition

2.2.1 Power on/off button

1. If the system is in S0, S1 or S2 state, pressing the power button will transit the system to S4 (Suspend to Disk), S5 (Soft-off) state depending on the "Power button function" setting in the BIOS Setup menu.

2. If the system is in S4 or S5 state, pressing the power button will awaken the system into S0 state.

3. If the power button is pressed for more than four seconds, a power button over-ride event is generated and the system will be put into S5 (Soft-off) state.

2.2.2 Cover (Lid) Switch

When LCD cover is closed, this Lid switch is triggered and an SMI/SCI is generated to put the system into 'Suspend to RAM' or 'Suspend to Disk' mode depending on the "Cover Switch" setting in the BIOS Setup menu.

2.2.3 WWW function button

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When this button is pressed, the system will launch Microsoft Internet Explorer and connect to default setting of Internet Explorer.

2.2.4 CPU DIP Switch Settings (SW7 – near CPU socket)

SW7 (For Celeron and Pentium III)					
1	**2**	**3**	**4**	**CPU**	**SDRAM**
ON	OFF	OFF	OFF	66M	66M
OFF	OFF	OFF	OFF	66M	100M
OFF	OFF	OFF	ON	100M	100M

Note: SW7-5, 6, 7, 8: Always OFF

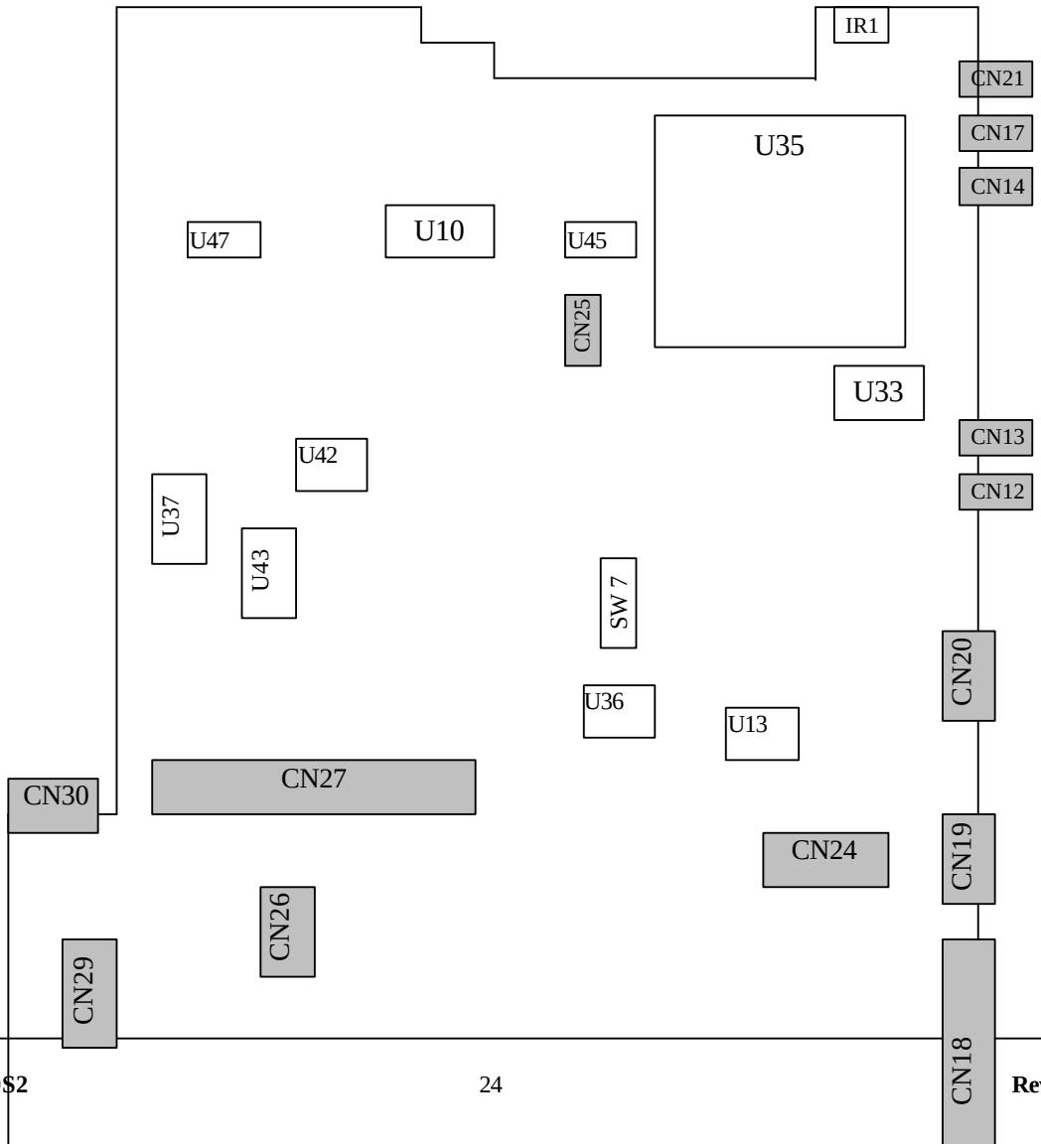
Celeron		
Processor	System Bus Frequency(MHz)	L2 Cache Size(Kbytes)
500	66	128
533	66	128
566	66	128
600	66	128

Pentium III		
Processor	System Bus Frequency(MHz)	L2 Cache Size(Kbytes)
500	**100**	**256**
550E	**100**	**256**
600E	**100**	**256**
650	**100**	**256**
700	**100**	**256**
750	**100**	**256**
800	**100**	**256**
850	**100**	**256**

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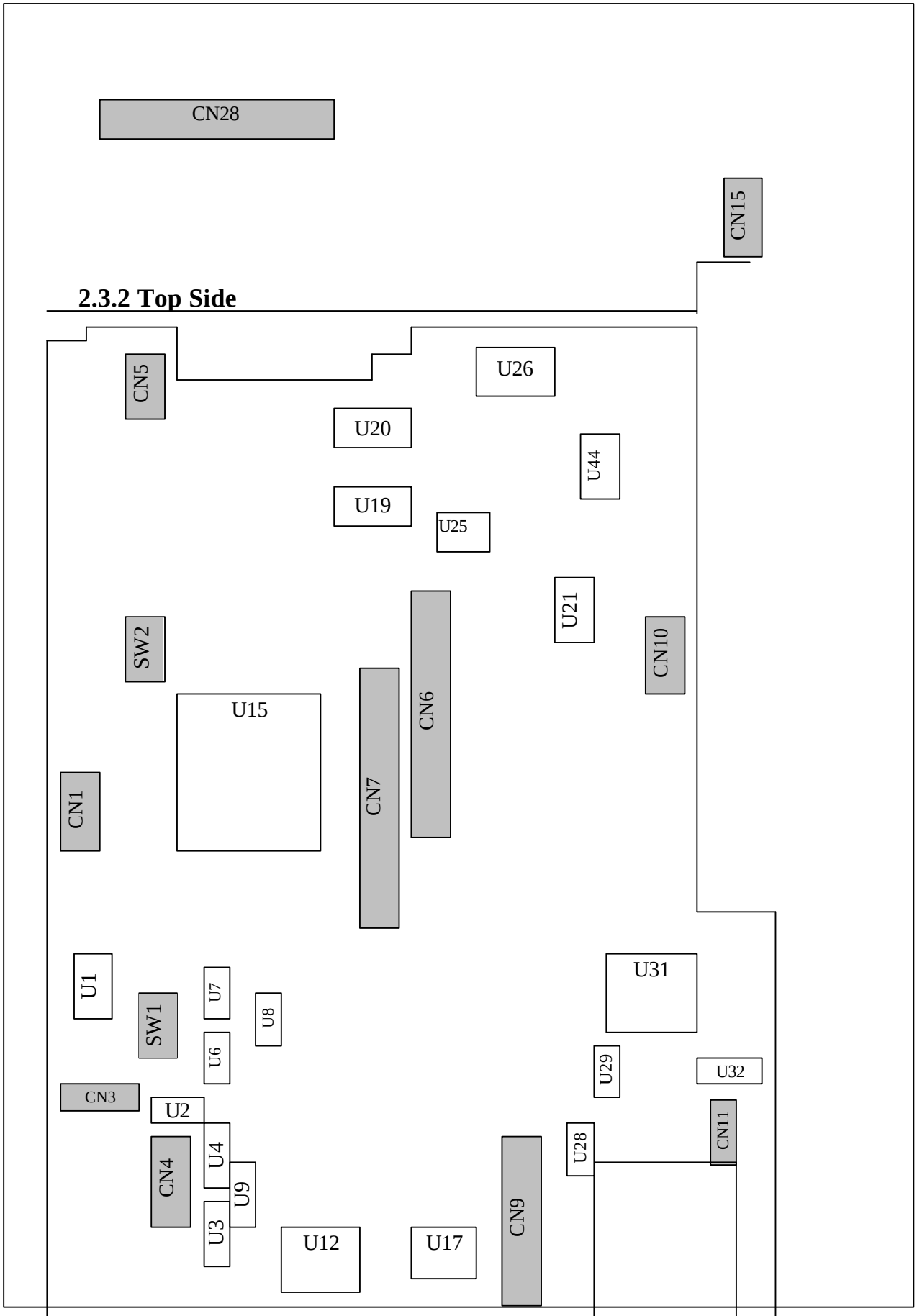
2.3. Major Components and Connectors Location

2.3.1 Bottom Side

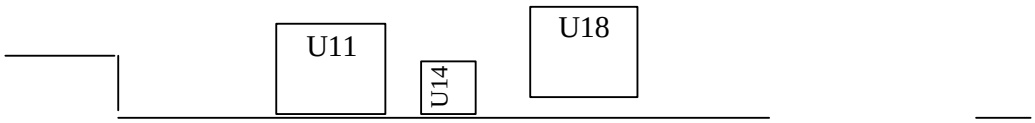


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2.3.2 Top Side



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Notebook PC Service Manual

Model : 340S2

Chapter 3
Major Components

UNIWILL COMPUTER CORP.

No. 24 Pei Yuan Road
Chung Li Industrial Park, Chung Li City
Tao Yuan Hsien, Taiwan,
R.O.C.
TEL: 886-3-461-6000
FAX: 886-3-461-6317
URL: http:// www.uniwill.com.tw/

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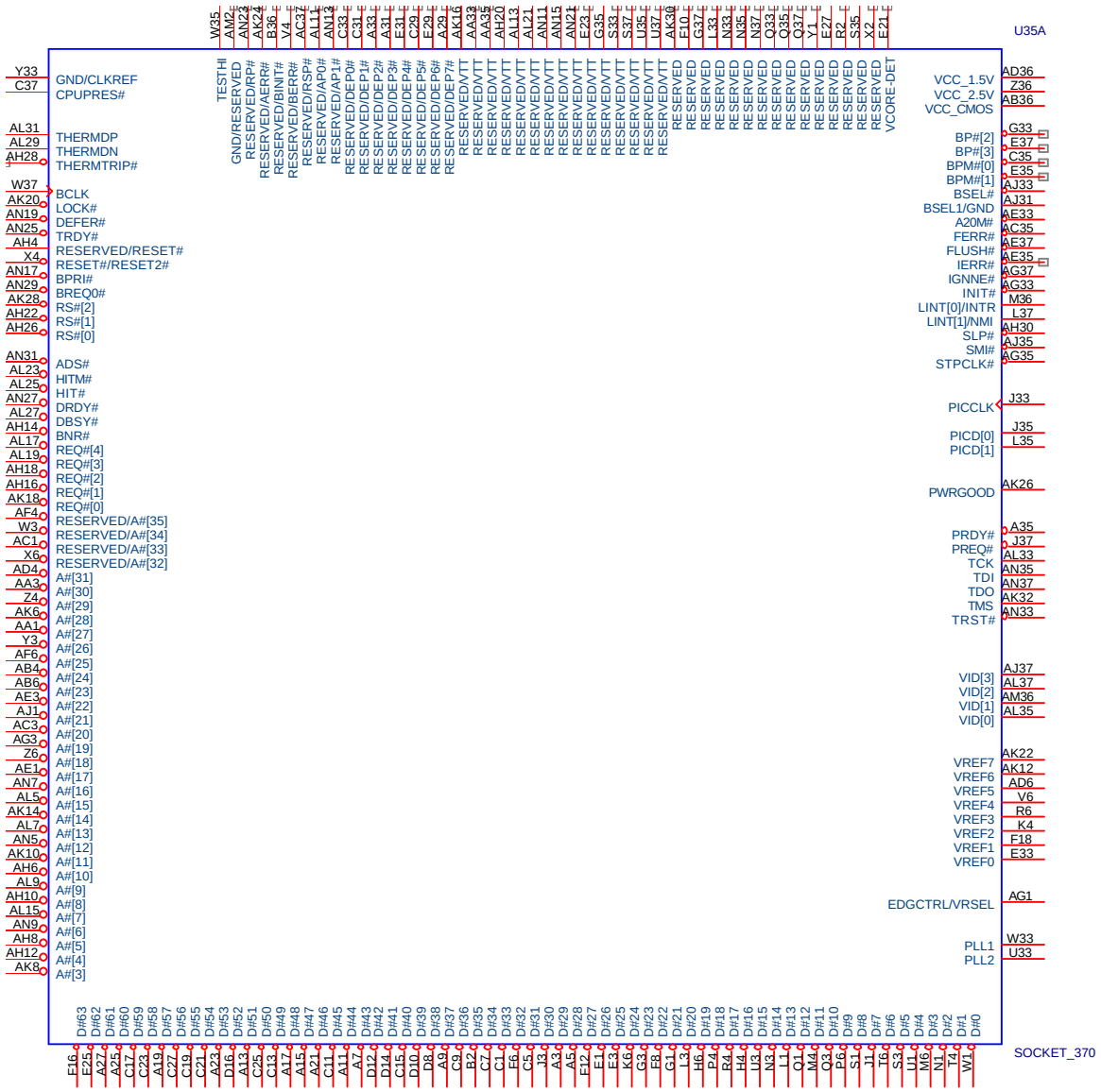
3.1 Major Component List

Reference	Description	Vendor	Component Name
U1	RS-232 TRANSCEIVER	ANALOG	ADM213
U2	P-MOSFET FOR LCD VCC	CET	9424 SO-8
U3	1MX16 VRAM	-	NT56V1616A0T
U4	LVDS PANEL TRANSMITTER	TI	SN75LVDS84
U6	NOT GATE	TI	74LVC14
U7	AND GATE	PHILIPS	74LVC08
U8	OR GATE	-	74LVC32
U9	4MX16 VRAM	HYUNDAI	M12L1616A_7T
U10	CLOCK GENERATOR	WINBOND	ICS9248-126
U11	SUPER I/O CONTROLLER	NS	PC87393
U12	DSTN CONTROLLER	NS	CS9211
U13	SERIAL ROM FOR LAN	ATMEL	93C46
U14	SWITCH	TI	74LVC373
U15	CORE LOGIC	SIS	SIS630
U17	BIOS EEPROM SOCKET	UNICORN	29LV020(PLCC-32)
U18	KB CONTROLLER	NS	PC87570
U19	PWM CONTROL	TI	TL594-SOP16
U20	STEP DOWN DC-DC CONVERTER	TOYOTA	SB3060P-SSOP24
U21	LOW DROPOUT REGULATOR	ALPHA	AS2951
U24	ZENER SHUNT REGULATOR	ZETEX	ZR431
U25	AC'97 AUDIO CODEC	AVANCE	AVANCE_ALC100
U26	AUDIO AMPLIFIER	NS	LM4835
U28	RAM SWITCH	PHILIPS	74HCT4066
U29	PCMCIA POWER CONTROLLER	MICREL	MIC2562A
U31	PCMCIA CONTROLLER	O2Micro	OZ6812
U32	OP AMP.	NS	LM358
U33	TEMPERATURE SENSOR	AD	ADM1021
U35	PPGA CPU SOCKET	SKT	SOCKET 370
U36	OCTAL BUFFER	PHILIPS	74VLC244
U37	PWM CONTROL	TI	TL594
U42	LINEAR REGULATOR	NS	78L12
U43	STEP DOWN DC-DC CONVERTER	SMD	SB3052P
U44	PWM CONTROL	TI	TL594
U45	LOW DROPOUT REGULATOR	OMA	AME8800DEFT
U47	LOW DROPOUT REGULATOR	OMA	AME8800AEFT
IR1	IR TRANSCEIVER MODULE	STANLEY	HRM230S

3.2 Major Components Pin Assignment

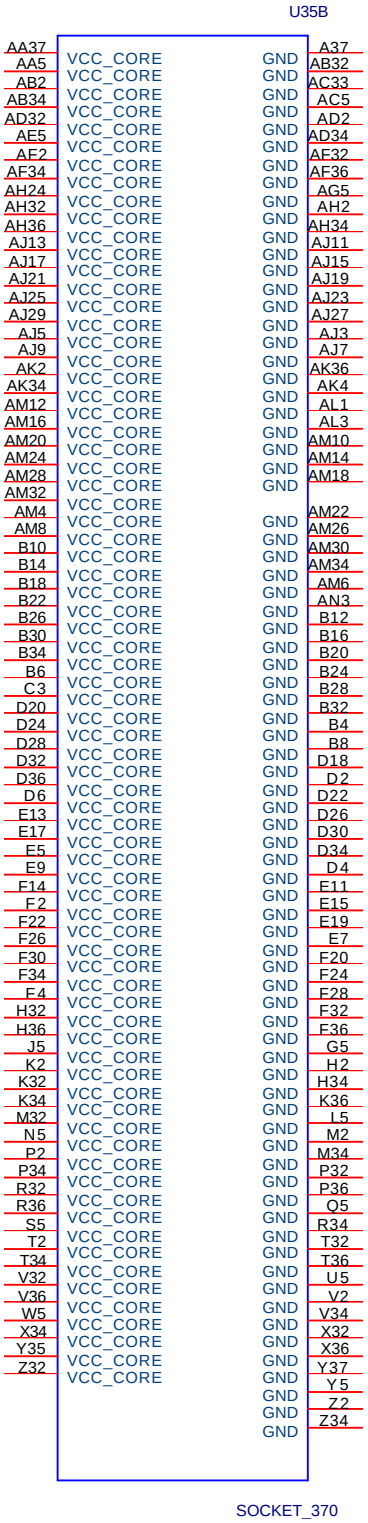
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1.1.1.1.1.SOCKET 370 _A



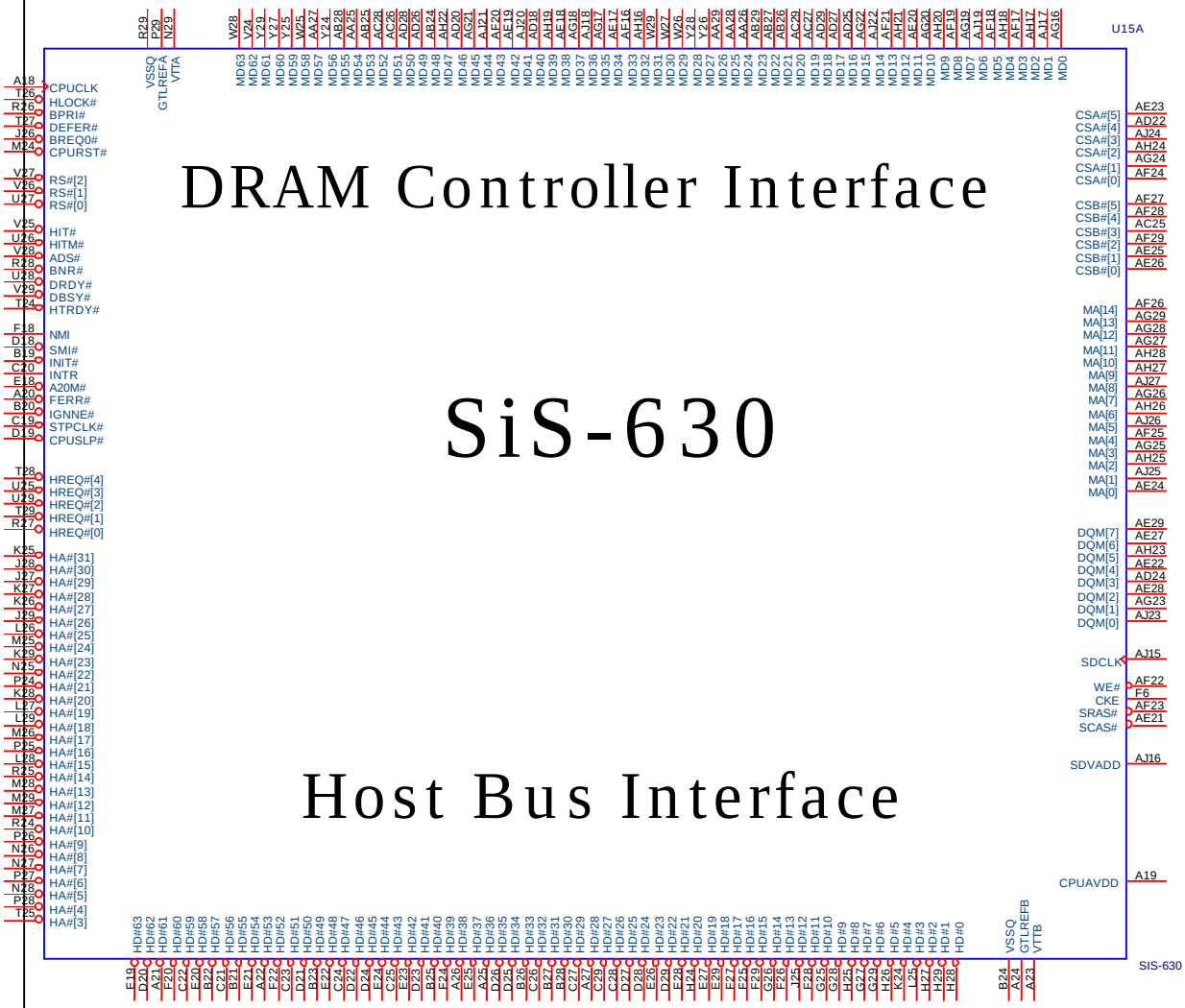
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1.1.1.1.2. SOCKET 370 B



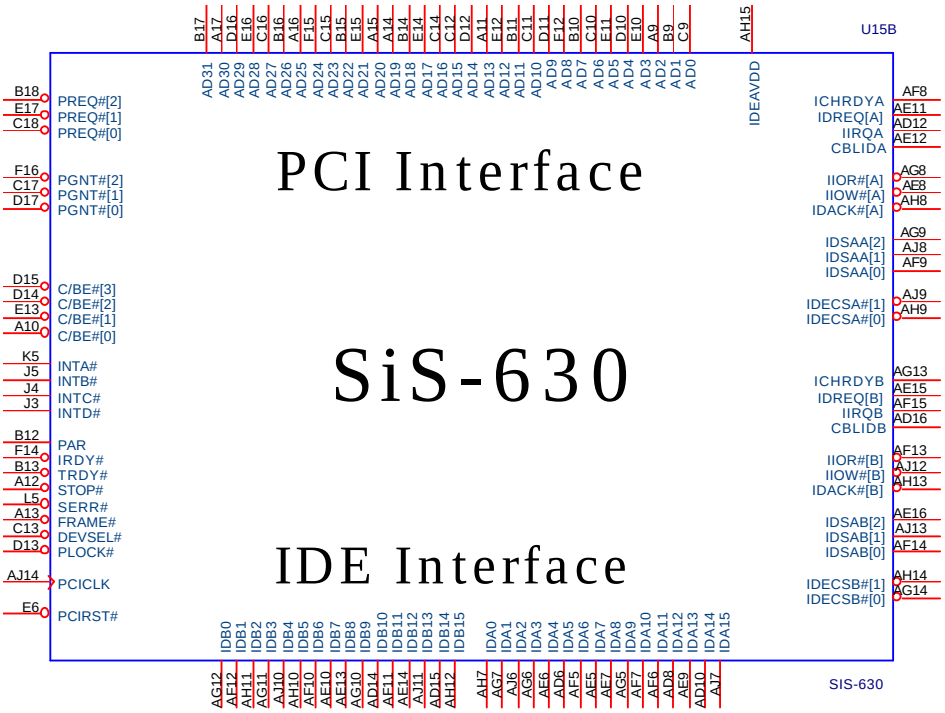
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SIS 630 Host and Memory (U15A)

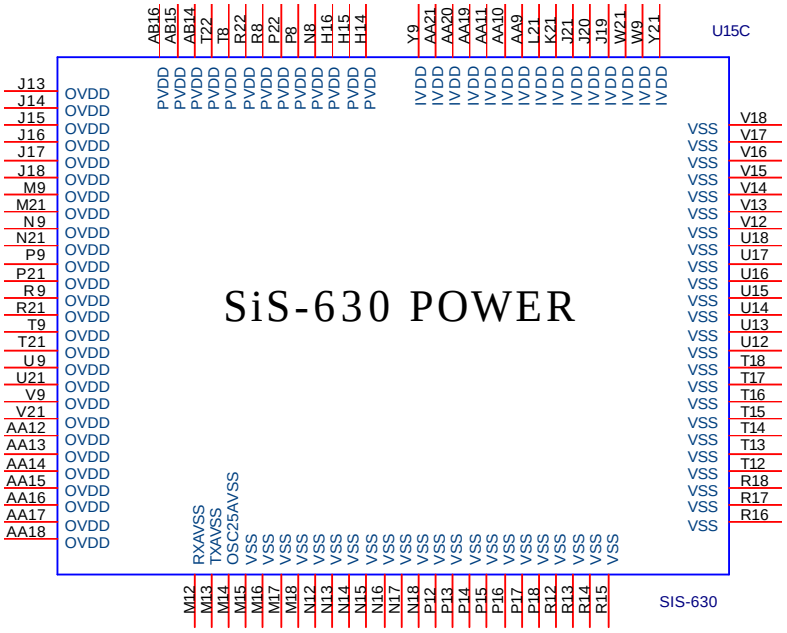


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SIS 630 PCI and IDE

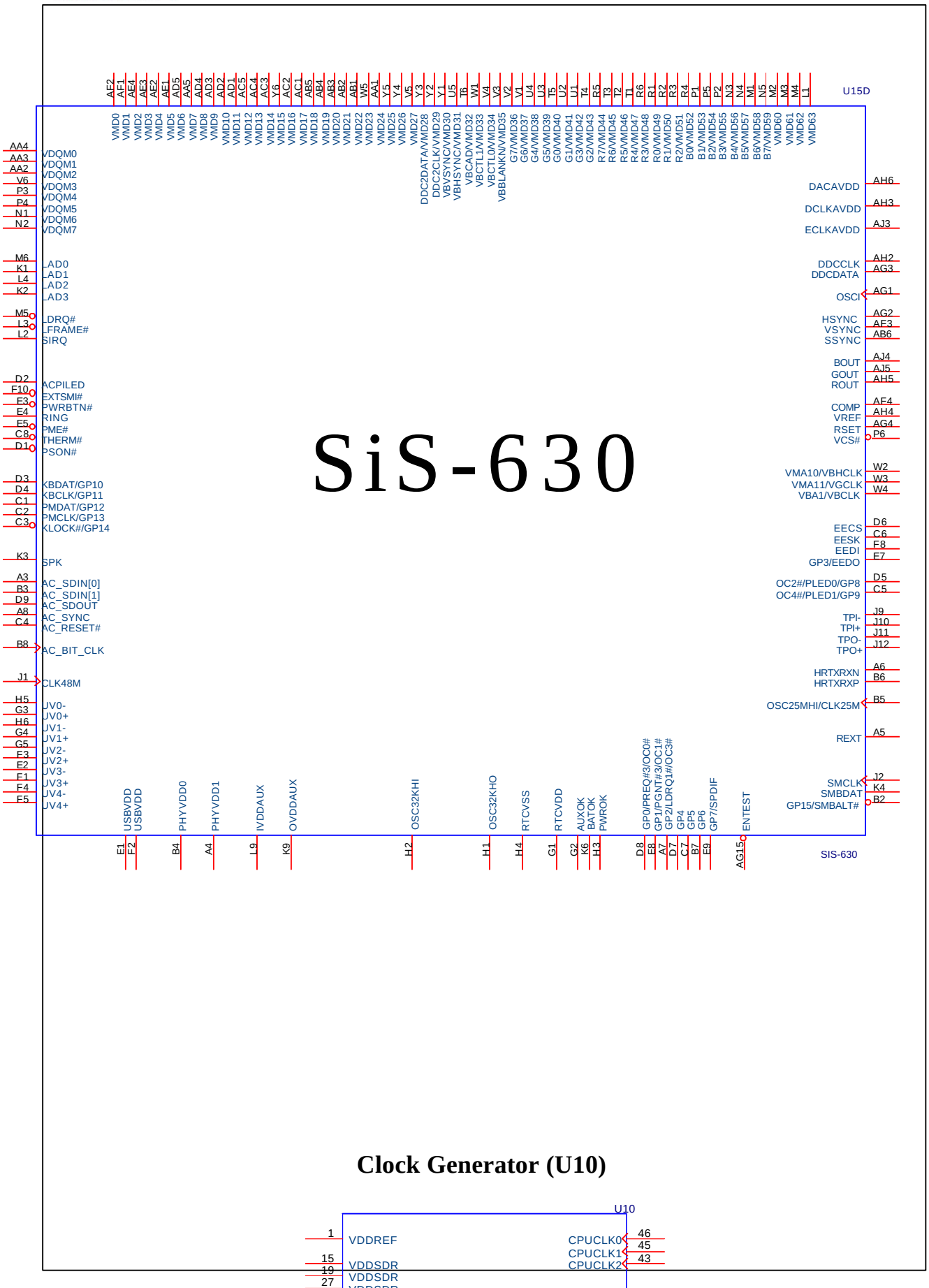


SIS 630 Power Interface



SIS 630 VGA/South Bridge

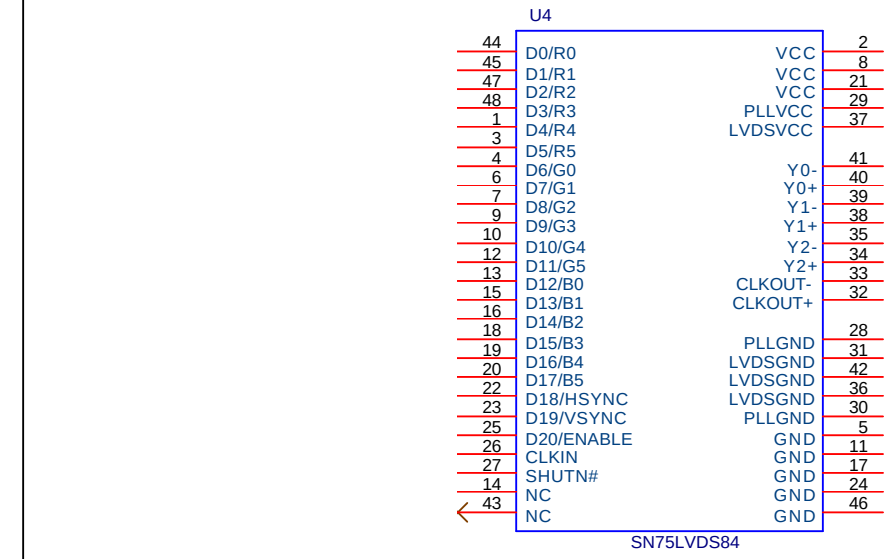
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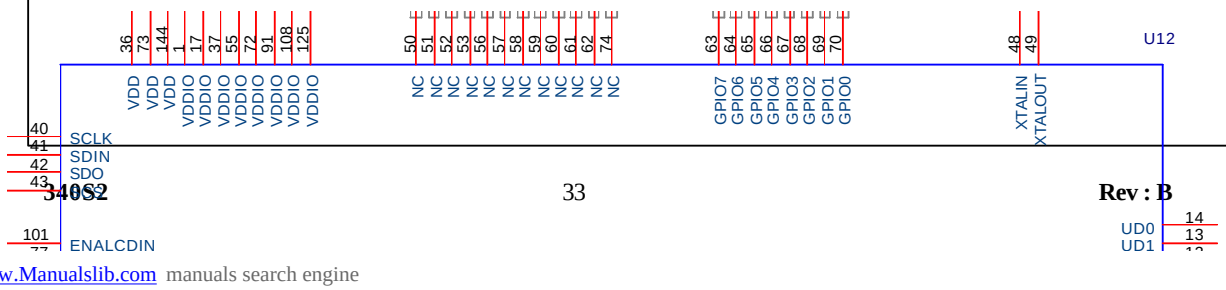
Clock Generator (U10)

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SN75LVDS84



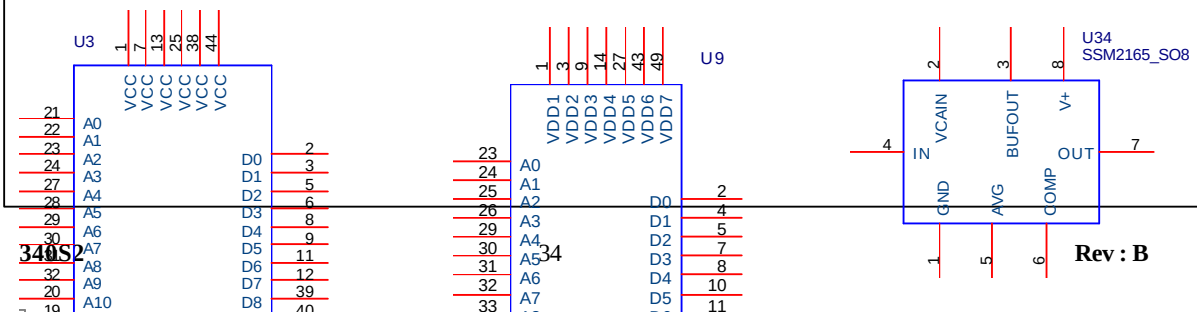
CS9211 (U12)



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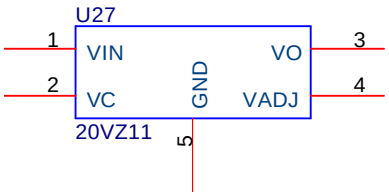
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SSM2165_SO8

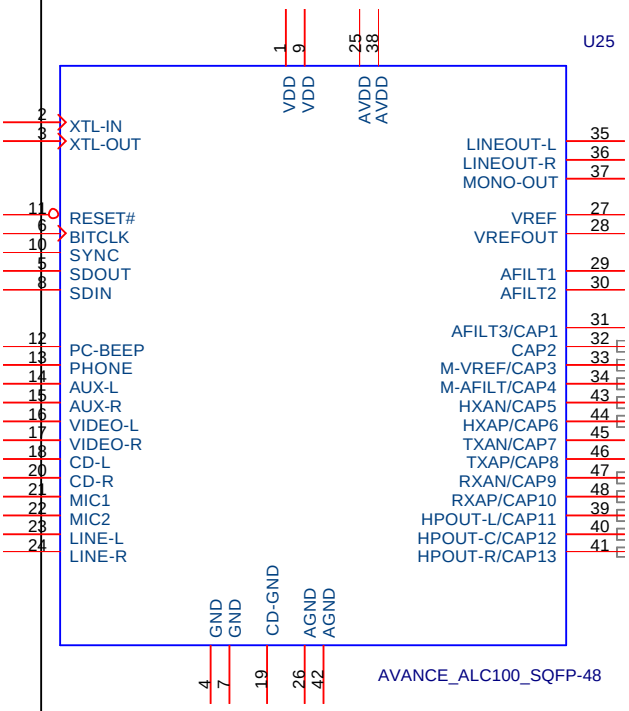


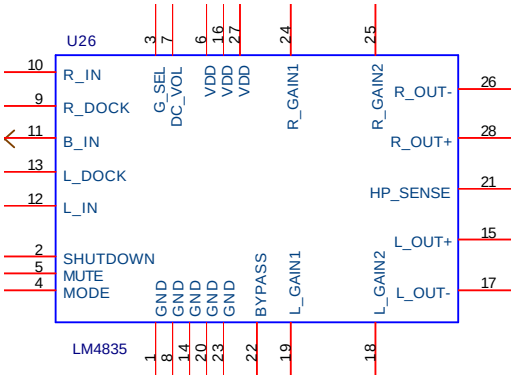
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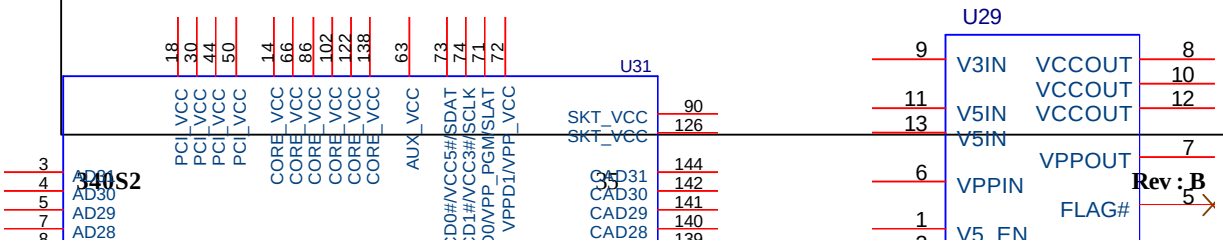


CODEC (U25)
LM4835 (U26)



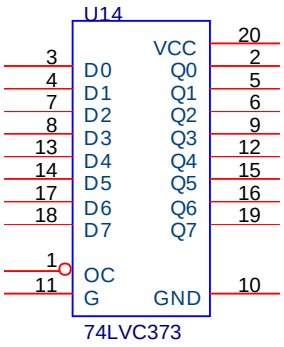


PCMCIA Controller O2Micro OZ6812
MIC2562A (U29)

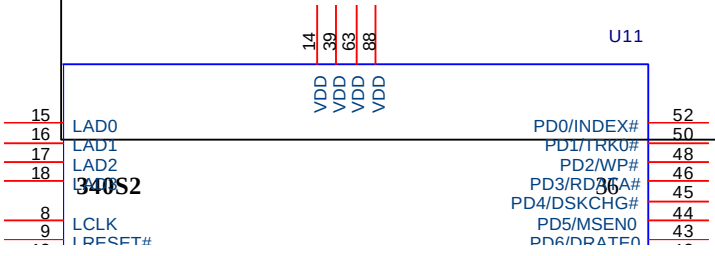


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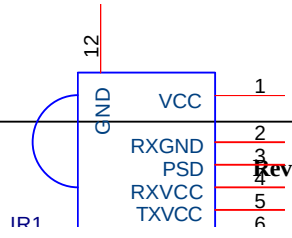
74LVC373 (U14)



Super I/O Controller (PC87393) (HRM230S)

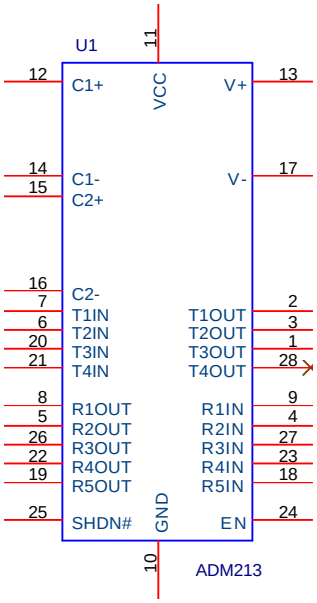


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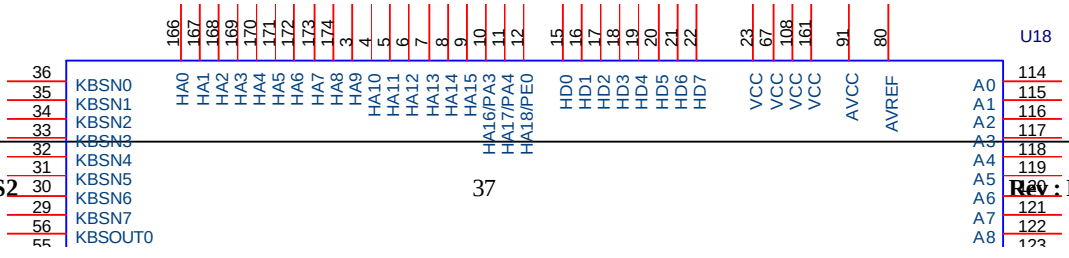


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ADM213 (U1)



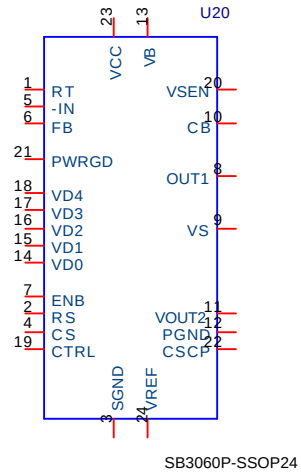
Keyboard Controller PC87570



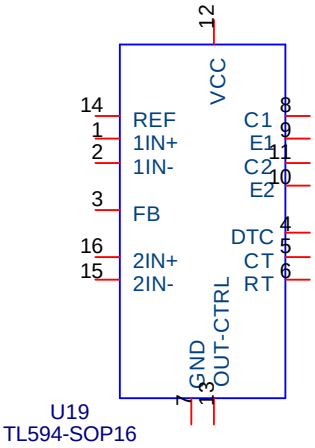
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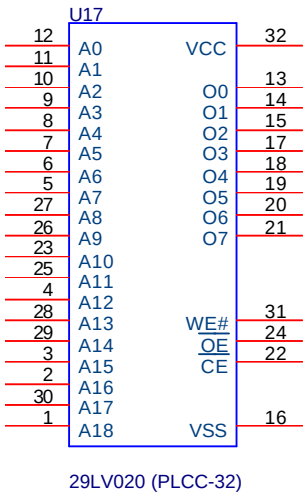
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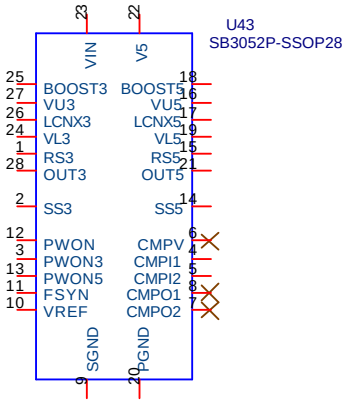
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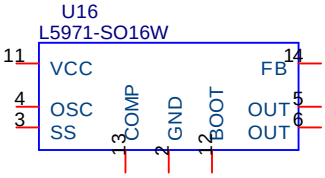
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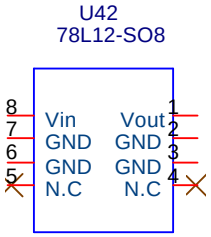
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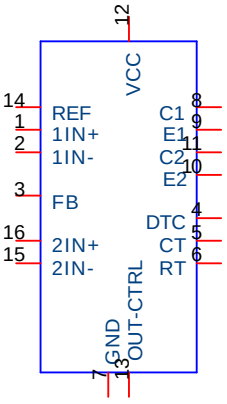
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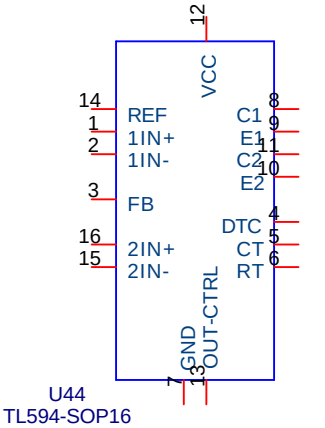
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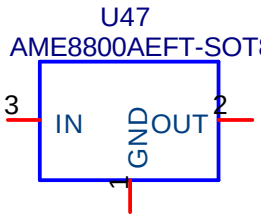
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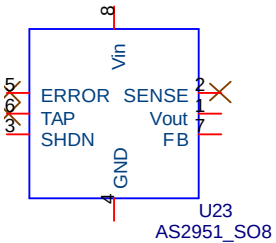
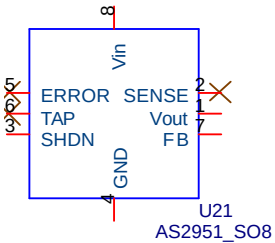
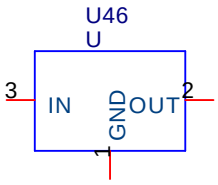
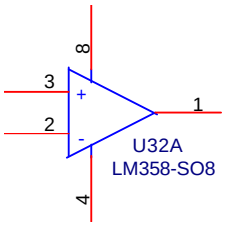
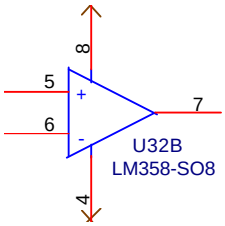
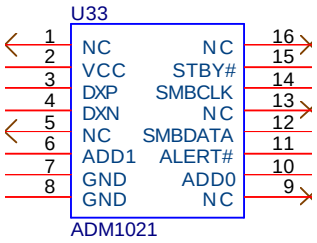
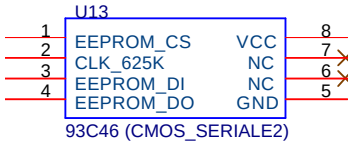
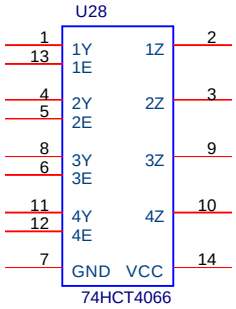
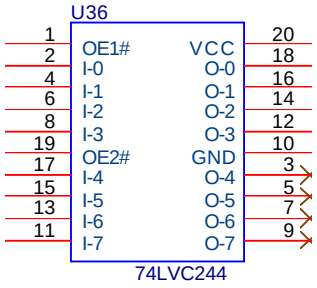
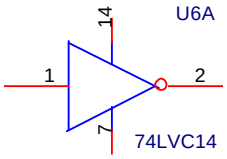
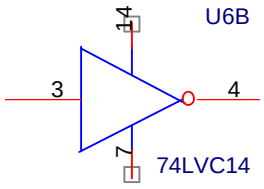
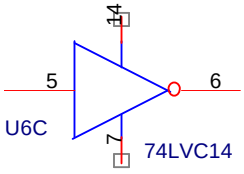
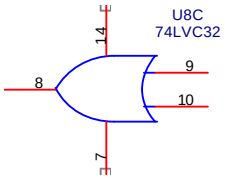
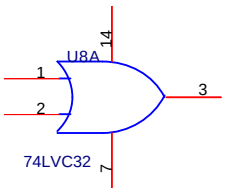
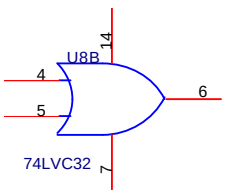


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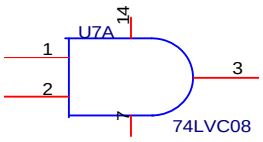
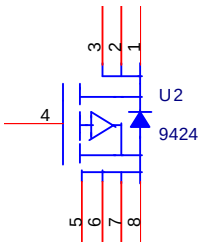
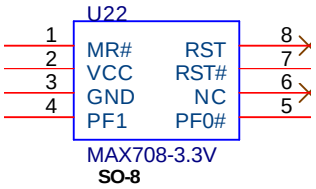
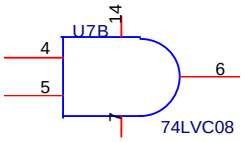
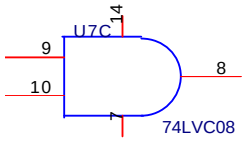
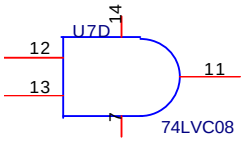
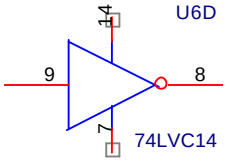
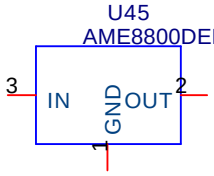


U46

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LM358	LM358	ADM1021
		
93C46	74HCT4066	74LVC244
		
74LVC14	74LVC14	74LVC14
		
74LVC32	74LVC32	74LVC32
		
74LVC08	9424	MAX708

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74LVC08	74LVC08	74LVC08
		
74LVC14	AME8800DEFT	
		

Notebook PC Service Manual

Model : 340S2

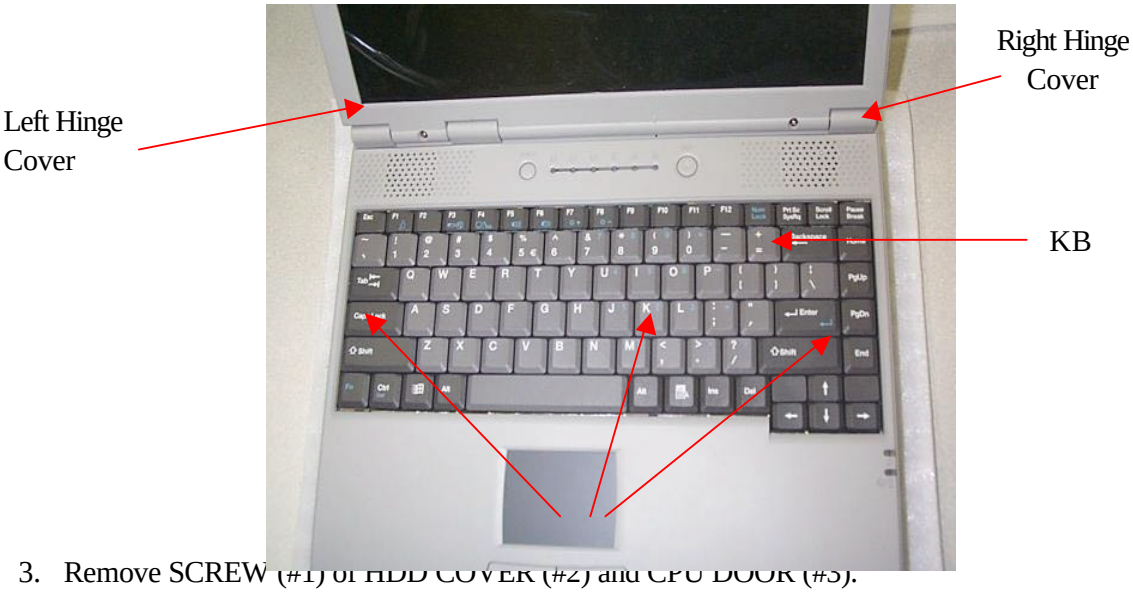
Chapter 4
System Disassembly

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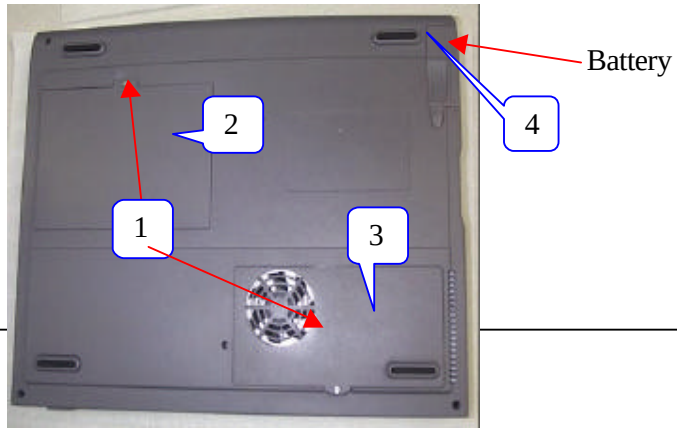
UNIWILL COMPUTER CORP.
No. 24., Pei Yuan Road,
Chung Li Industrial Park, Chung Li City
Taiwan, R.O.C.
TEL: 886-3-461-6000
FAX: 886-3-461-8000
URL: http:// uniwill.com.tw/

System Disassembly

1. Remove LEFT HINGE and RIGHT HINGE COVERS.
2. To remove K/B, unlock the latches of the K/B.



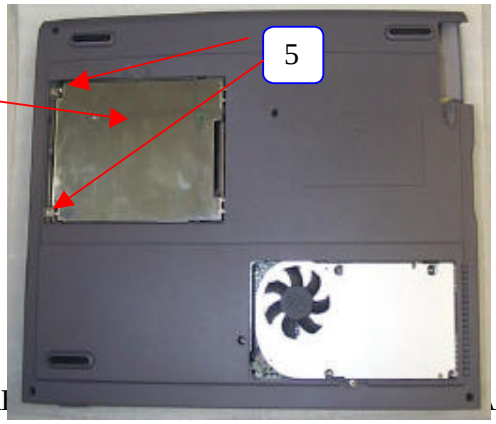
3. Remove SCREW (#1) of HDD COVER (#2) and CPU DOOR (#3).
4. Disassemble BATTERY by unlocking the BATTERY KNOB (#4)



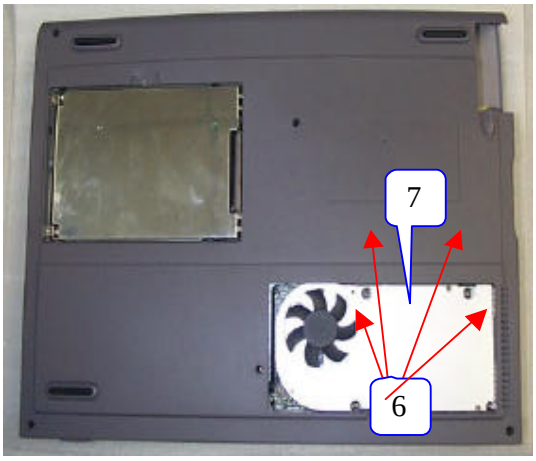
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5. Unfasten SCREWS (#5) of HDD and remove HDD.

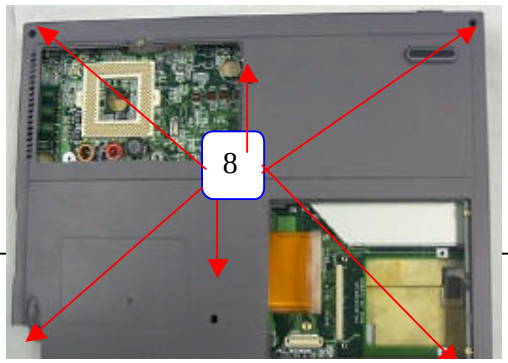
HDD



6. Unfasten the SCRI L MODULE (#7)

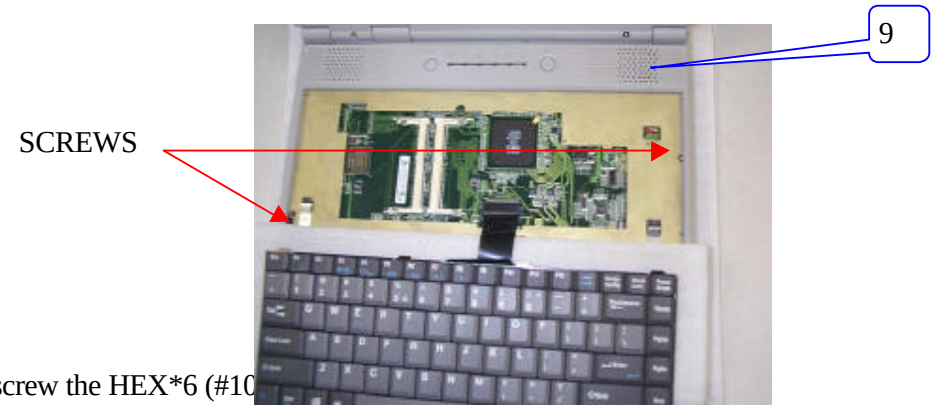


7. Unscrew the SCREWS *5 (#8) of the bottom cabinet.

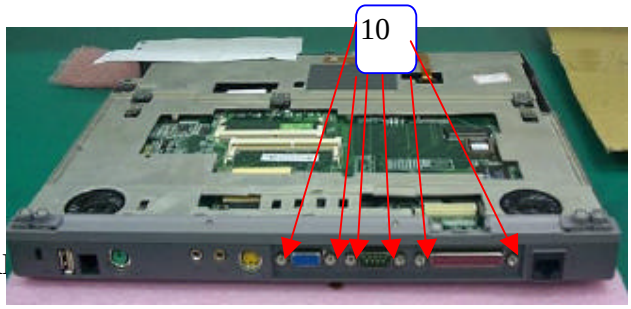


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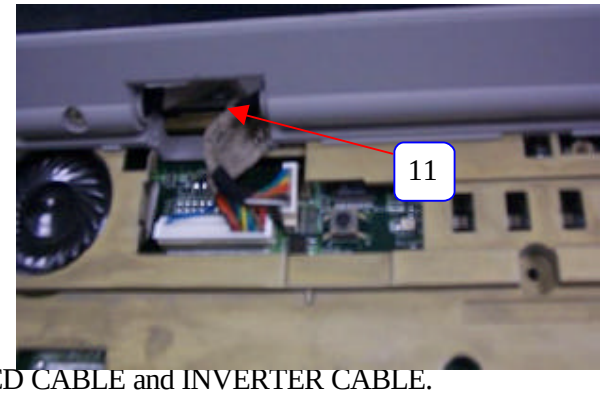
8. Remove SCREWS and disassemble TOP Cabinet Assembly (#9).



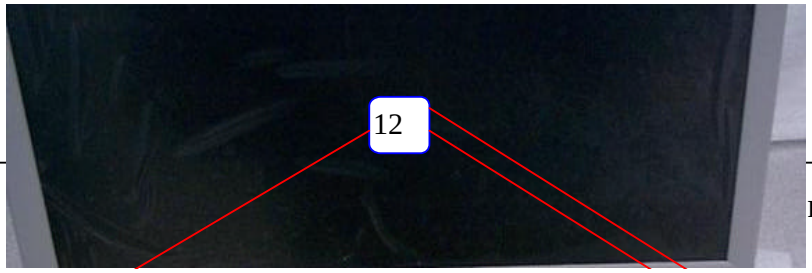
9. Unscrew the HEX*6 (#10



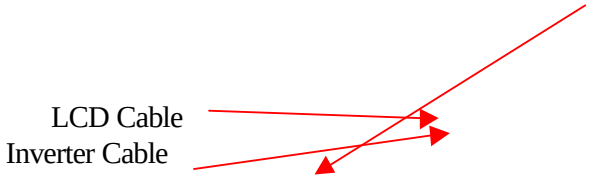
10. Unscrew SCR



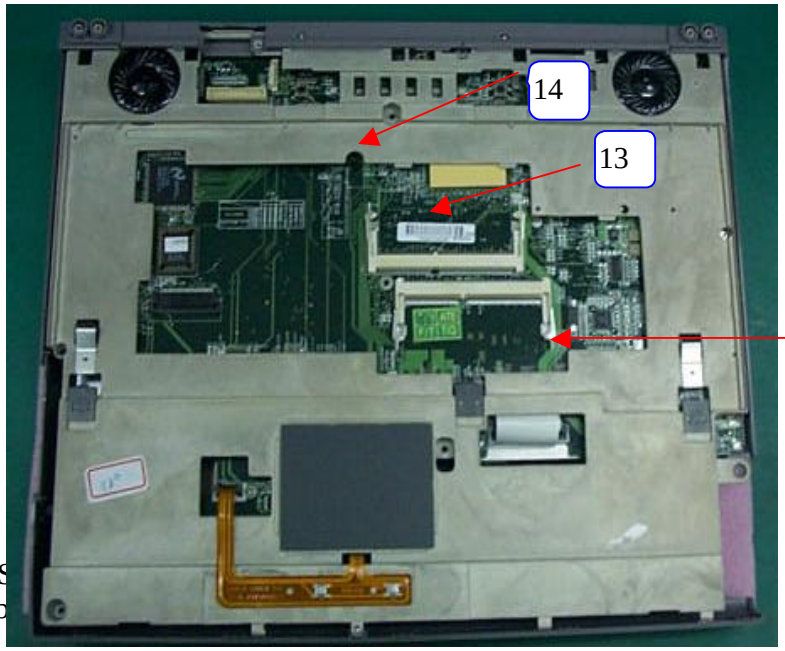
11. Disconnect LCD CABLE and INVERTER CABLE.
12. Unfasten SCREWS*4 (#12) of the HINGES and disassemble LCD MODULE.



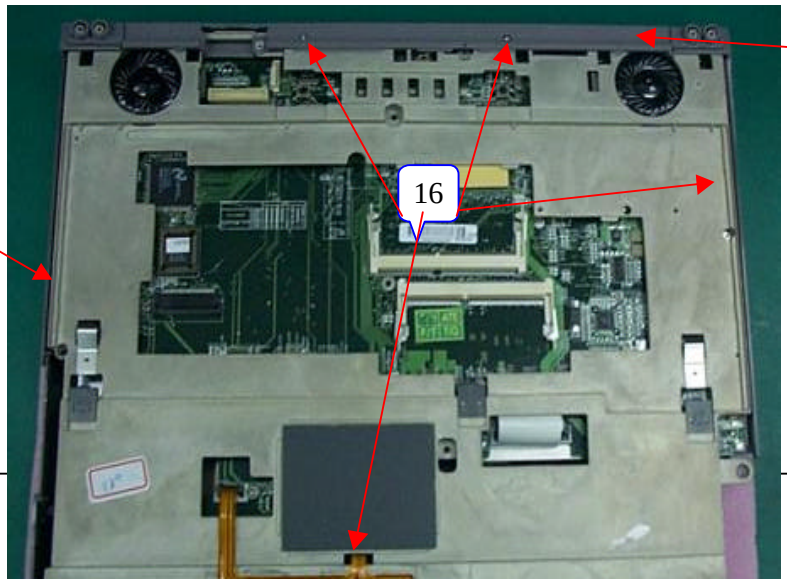
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13. Disassemble the RAM Module from the RAM socket (#13)
14. Disconnect the FDD FPC from the M/B.
15. Disassemble the CDROM after removing the SCREW (#14)

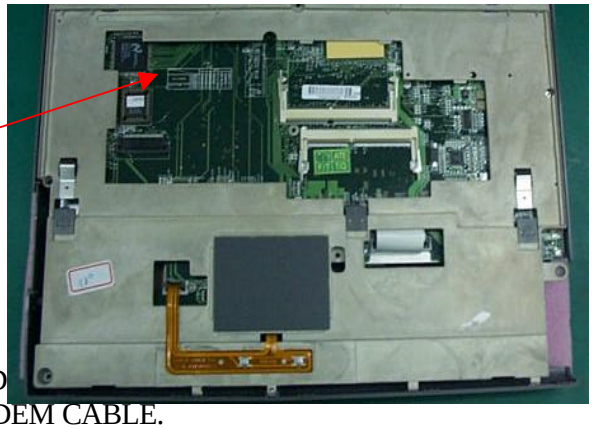


16. Unscrew S
17. Disassemb

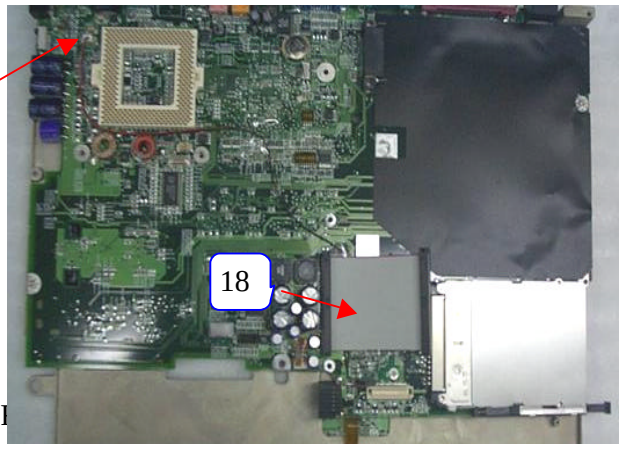


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18. Disassemble the M/B assembly from the bottom cabinet.

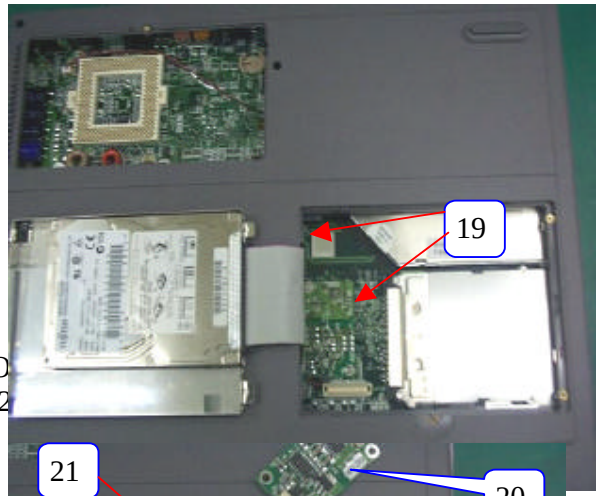


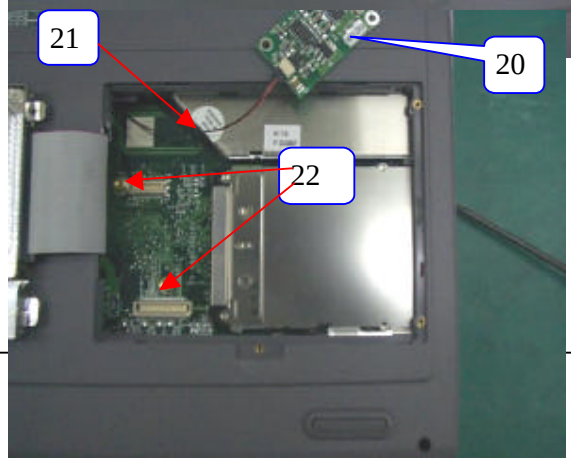
19. Disconnect HDD
20. Disconnect MODEM CABLE.



21. Unscrew SCI

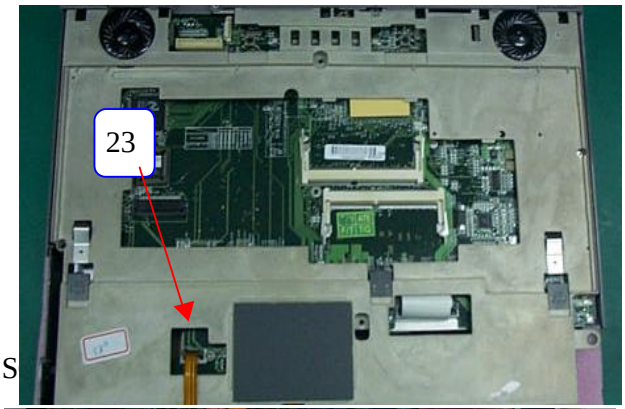
22. Disassemble MO
23. Unscrew HEX*2



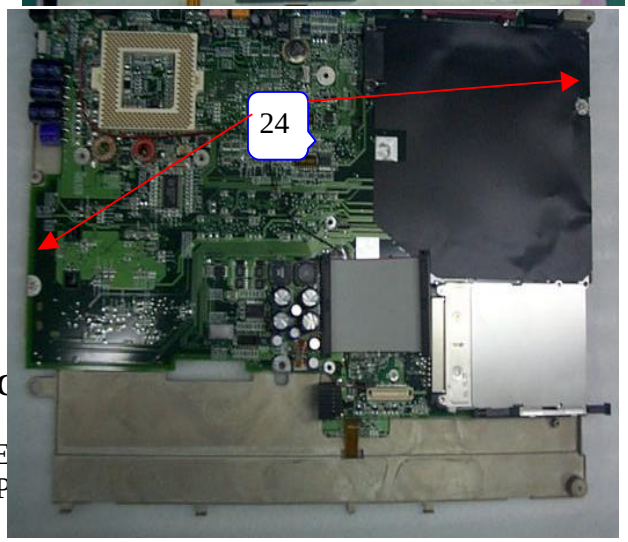


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24. Disconnect T/P FPC (#23) from the M/B.

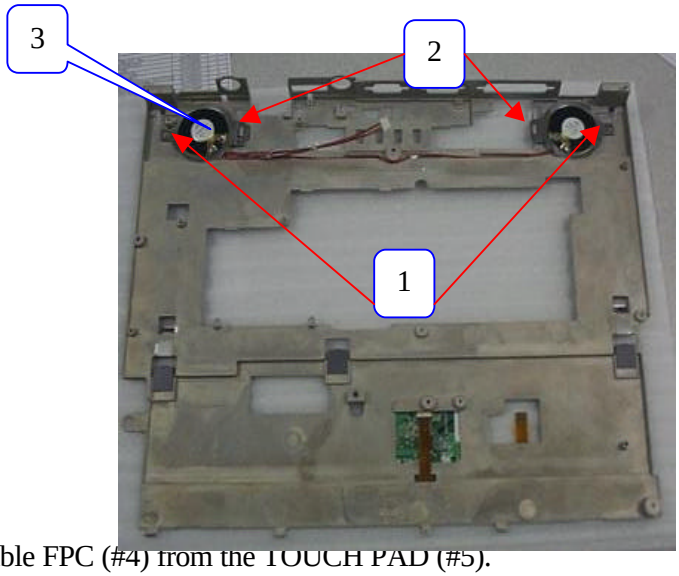


25. Unfasten the S



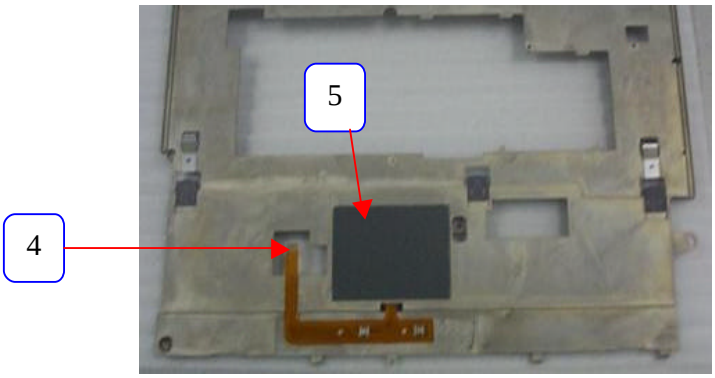
TOP HOUSING

1. Unscrew SCRE
2. Disassemble SP



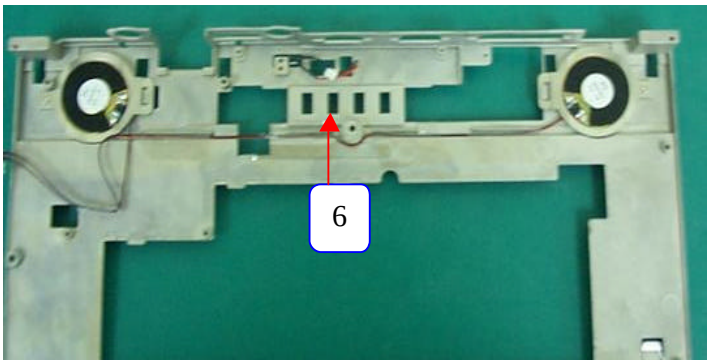
3. Disassemble FPC (#4) from the TOUCH PAD (#5).

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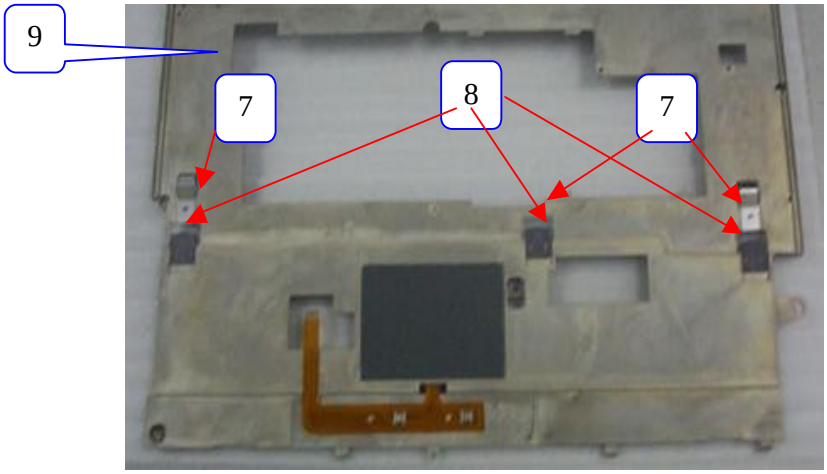


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4. Unscrew and disassemble SWITCH CABLE (#6).

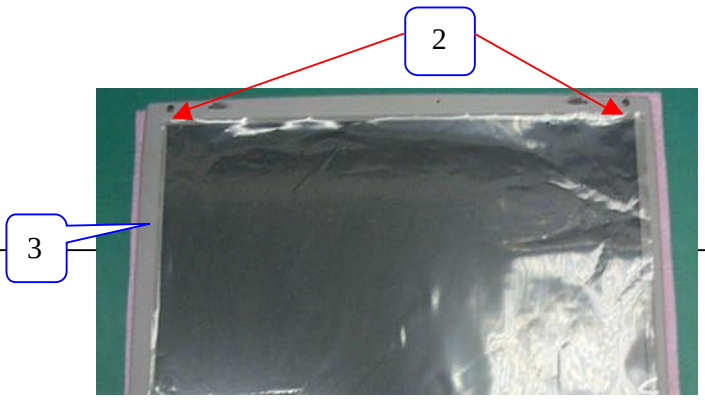


5. Disassemble K/B SPRING (#7)
6. Disassemble LATCH and SPRING (#8) from the TOP HOUSING (#9).

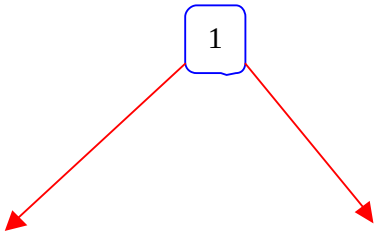


LCD PANEL DISASSEMBLY (14" CHIMEI)

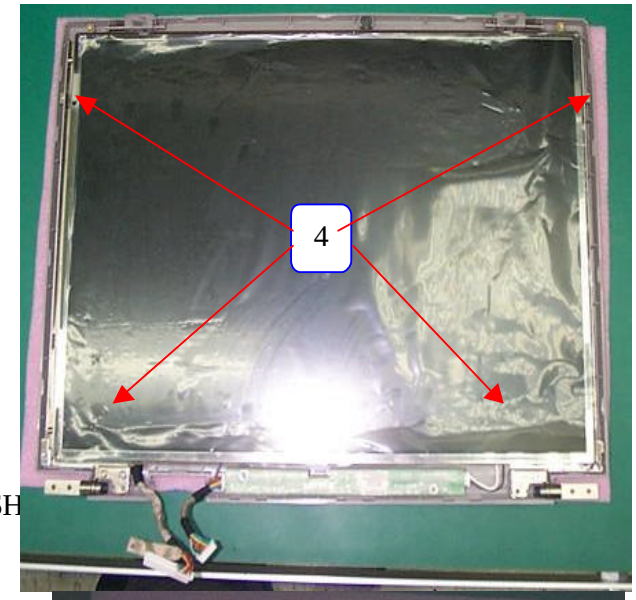
1. Unfasten SCREWS*4 (#1, #2) of the FRONT CABINET (#3).
2. Disassemble FRONT CABINET.



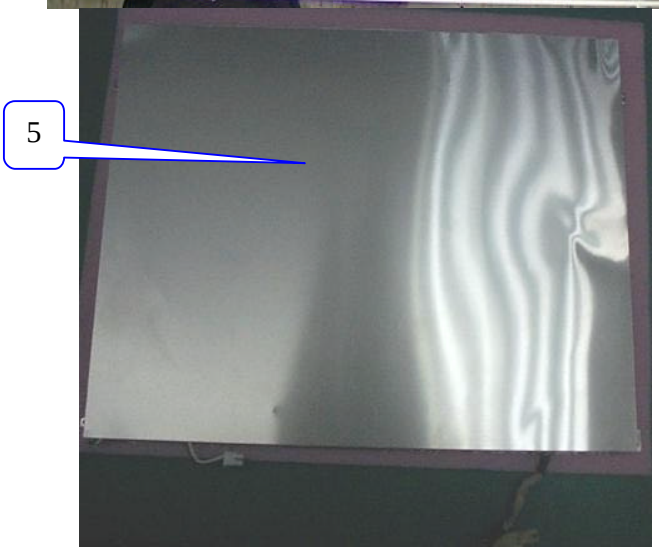
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3. Unscrew SCREWS*4 (#4) from the BACK CABINET.



4. Remove SH



5. Disconnect LCD CABLE (#6) from the LCD (#7)

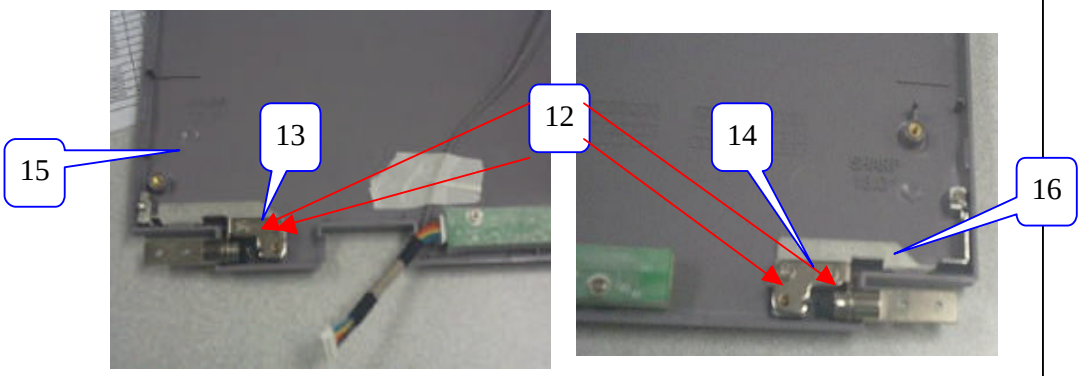


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6. Unscrew SCREW*2 (#8) and disassemble BRACKET_R(#9)
7. Unscrew SCREW*2 (#10) and disassemble BRACKET_L (#11).



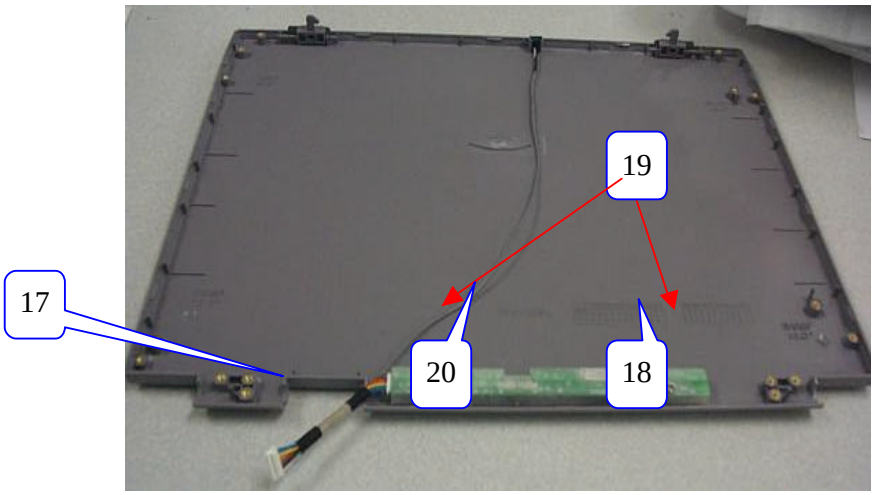
8. Unfasten SCREWS (#12) from the HINGE.
9. Disassemble HINGE_L (#13) and HINGE_R(#14).
10. Disassemble HINGE BRACKET_L (#15) and HINGE BRACKET_R (#16).



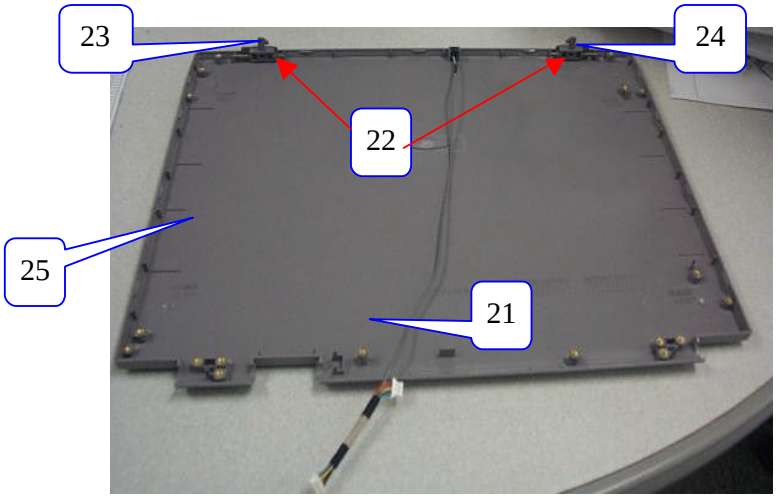
11. Disconnect INVERTER CABLE (#17) from the INVERTER (#18).

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12. Unfasten SCREWS*2 (#19) of the INVERTER.
13. Remove INVERTER MYLAR (#20)



14. Disassemble MIC (INVERTER CABLE) (#21).
15. Disassemble KNOB (#22).
16. Disassemble HOOK_L(#23) and HOOK_R(#24)cand SPRING from the BACK CABINET (#25).



Notebook PC Service Manual

Model: 340S2

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Chapter 5
Trouble Shooting

UNIWILL COMPUTER CORP.

No. 24 Pei Yuan Road
Chung Li Industrial Park, Chung Li City
Tao Yuan Hsien, Taiwan
R.O.C.
TEL: 886-3-461-6000
FAX: 886-3-461-6317
URL: http:// www.uniwill.com.tw/

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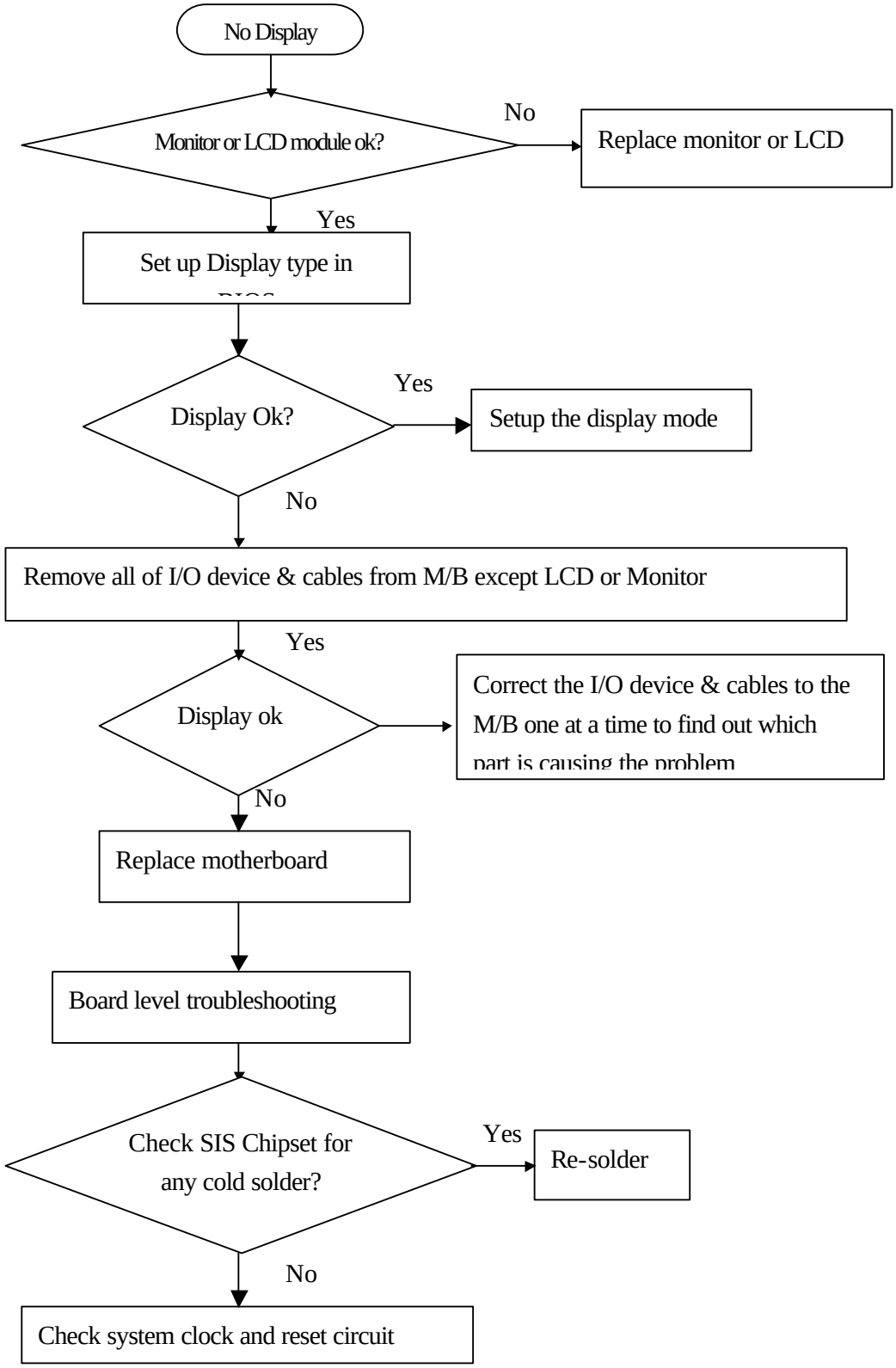
Trouble Shooting List

5.1 No display
5.2 VGA controller failure
5.3 LCD no display / Invalid picture
5.4 External monitor has no display or color incorrect
5.5 Memory test error
5.6 Keyboard test error
5.7 Touch pad test error
5.8 Diskette drive test error
5.9 Hard disk drive test error
5.10 CMOS test error
5.11 SIO port test error
5.12 PIO port test error
5.13 Audio failure
5.14 No power symptom
5.15 CDROM drive test error
5.16 Stopping in LCD screen while booting
5.17 PCMCIA Card Bus failure
5.18 IR Port cannot transfer data
5.19 Modem Failure

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5.1 No display (system failure)

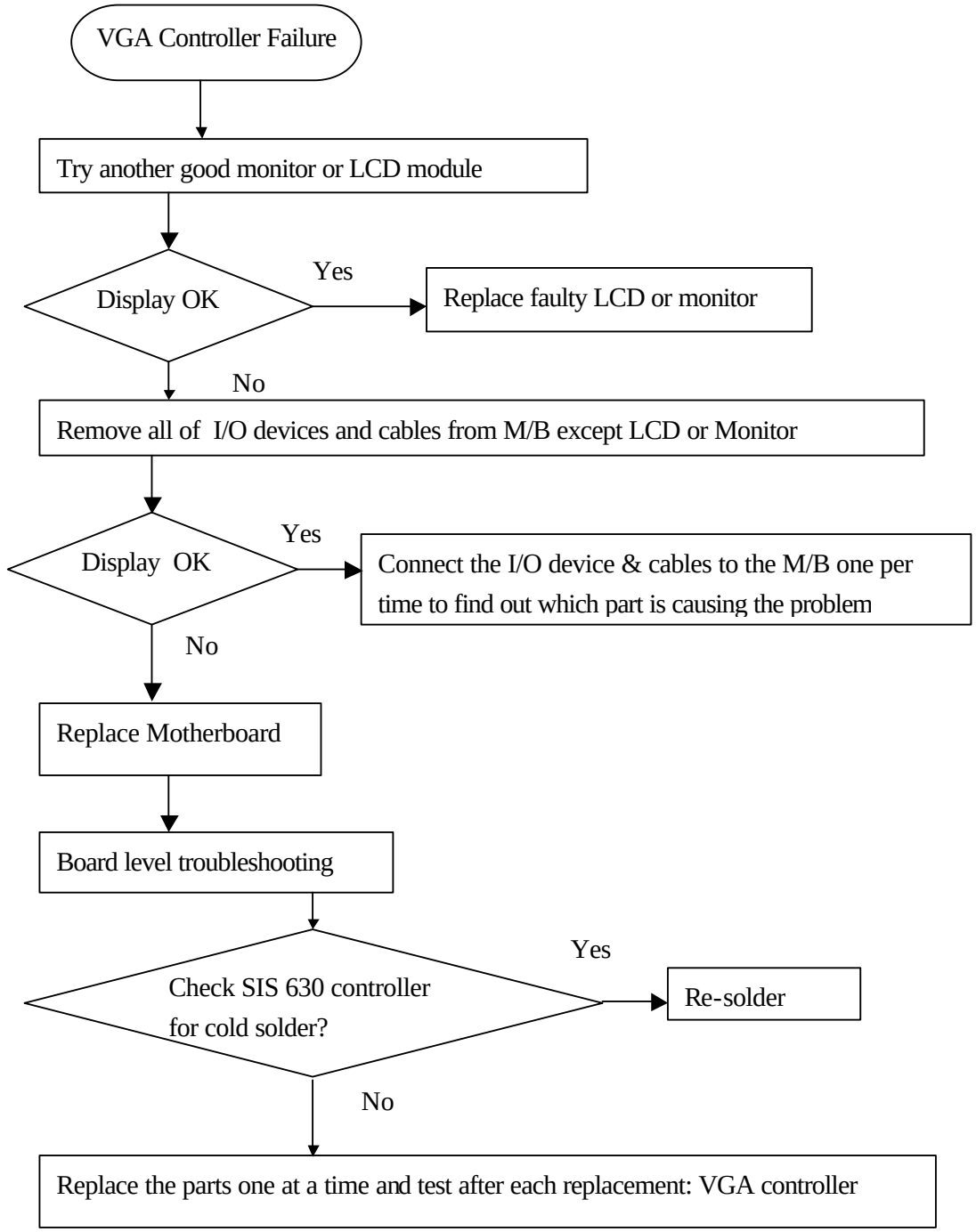
Symptom: There is no display on both LCD and Monitor after power on although the LCD and Monitor are known-good.



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5.2 VGA controller failure

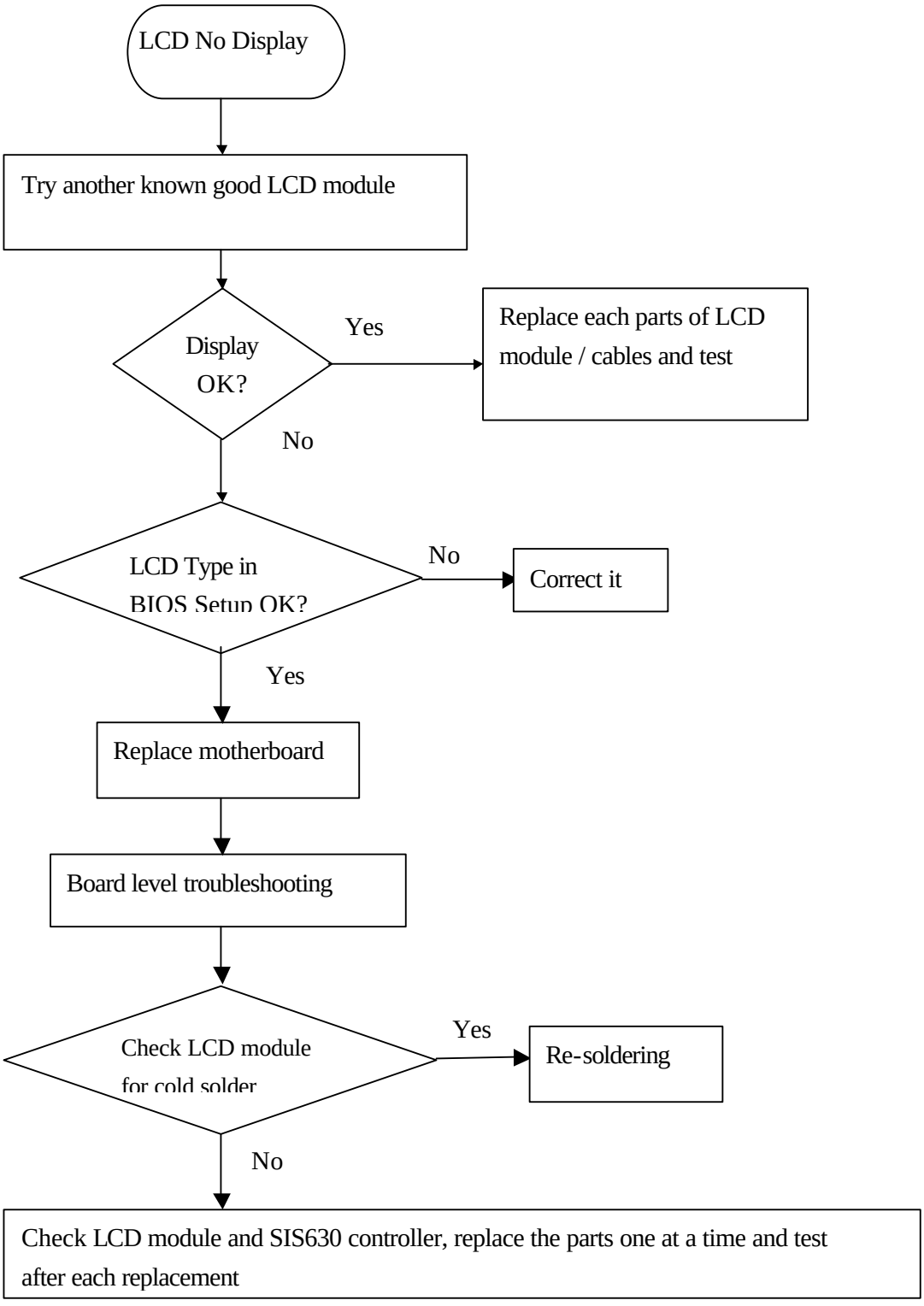
Symptom: There is no display on both LCD and Monitor although Power-On-Self-Test is passed



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5.3 LCD no display or Invalid Picture

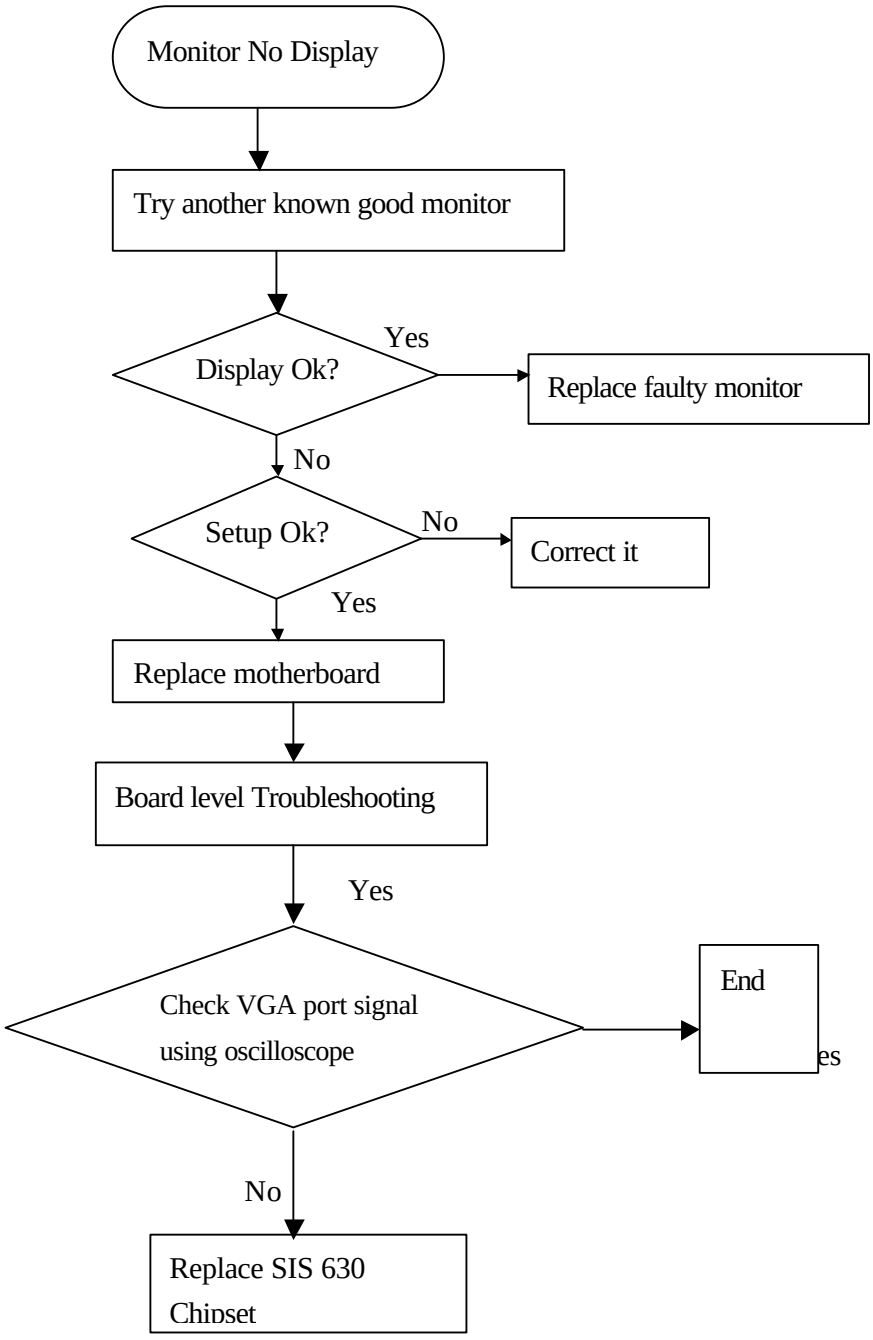
Symptom: The LCD shows nothing or abnormal picture, but it is ok for external monitor.



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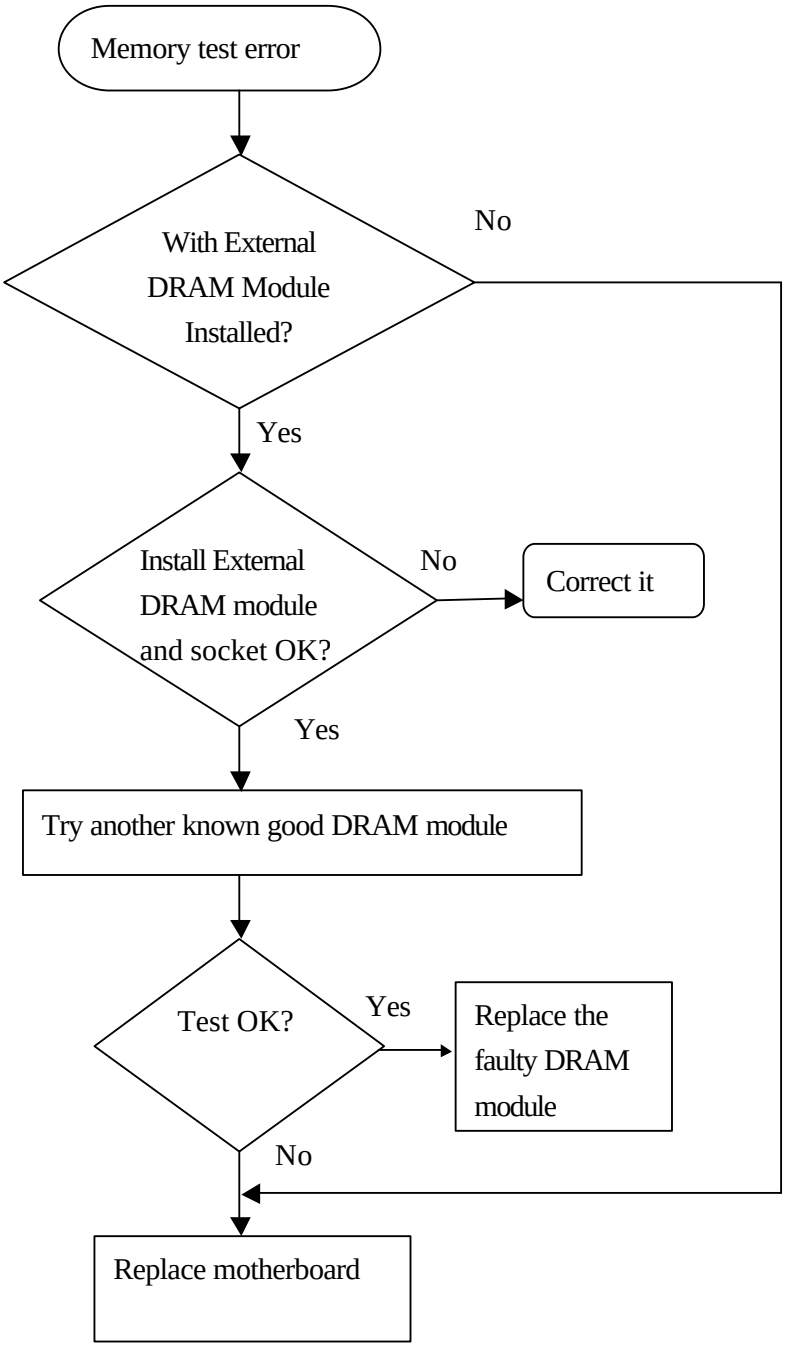
5.4 External monitor has no display or color abnormal

Symptom: The CRT monitor shows nothing or abnormal color, but it is ok for LCD



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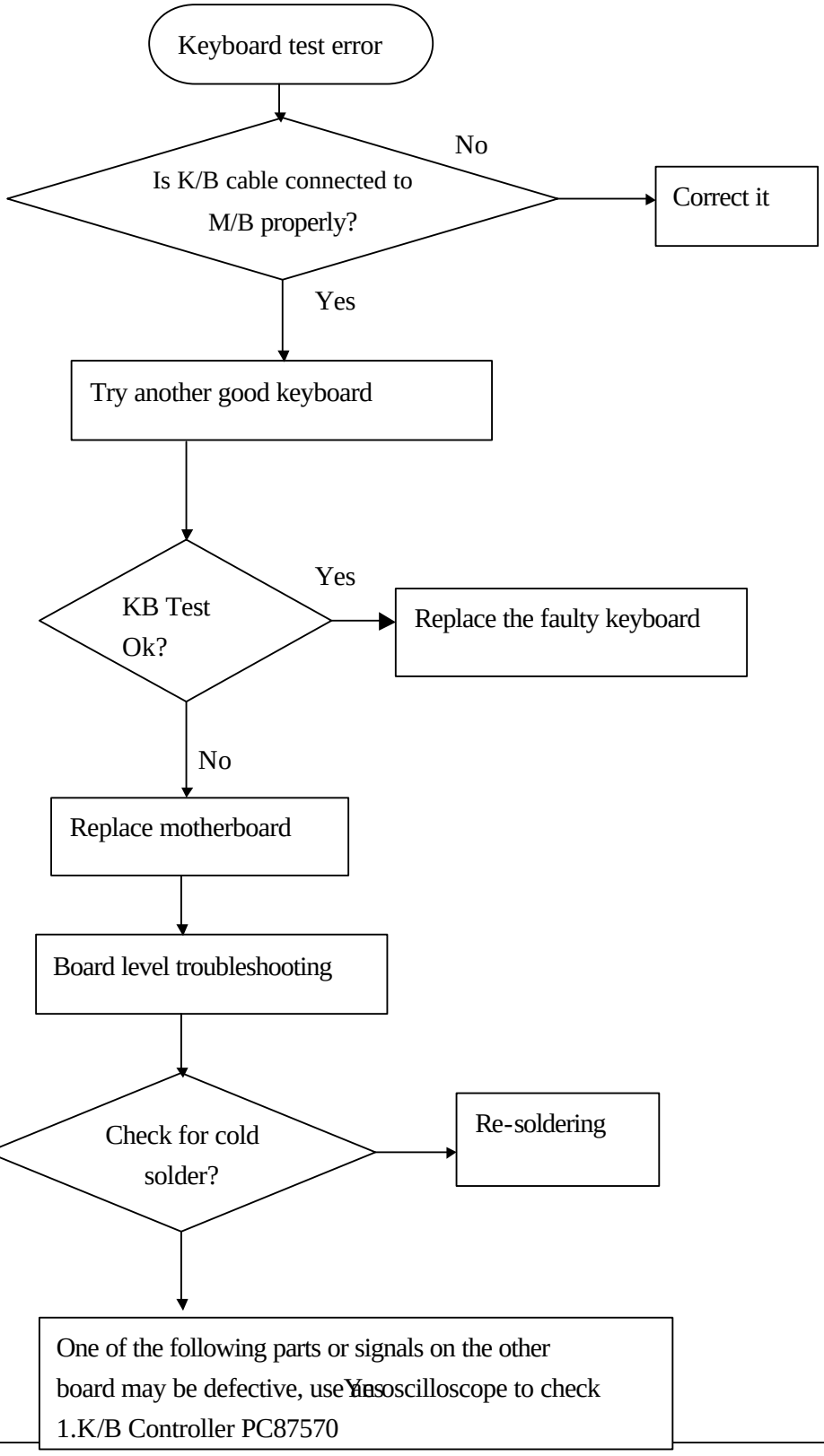
5.5 Memory test error



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5.6 Keyboard test error (including external K/B & PS/2 mouse)

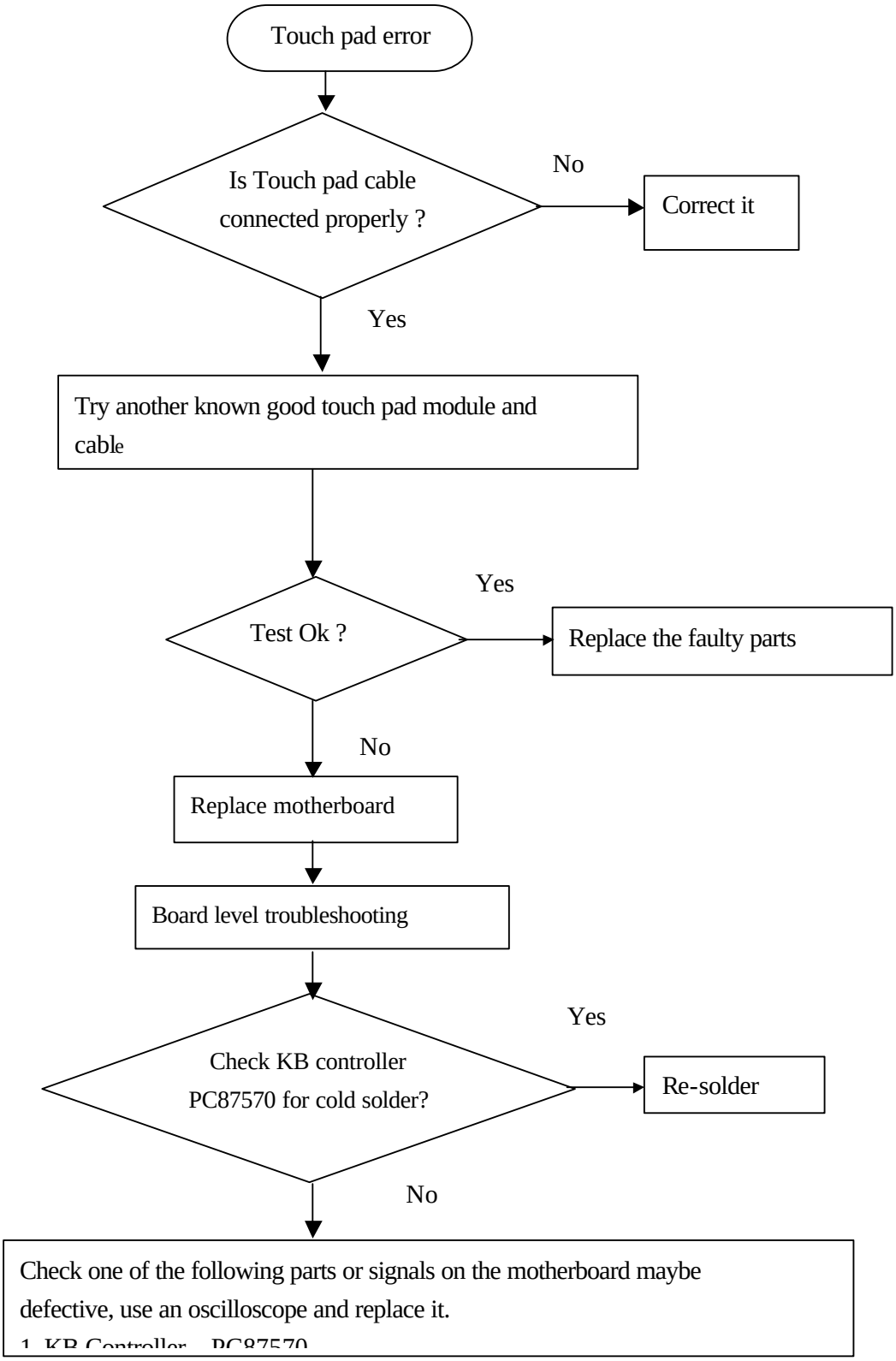
Symptom: error message of keyboard failure is shown or any key doesn't work



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5.7 Touch Pad test error

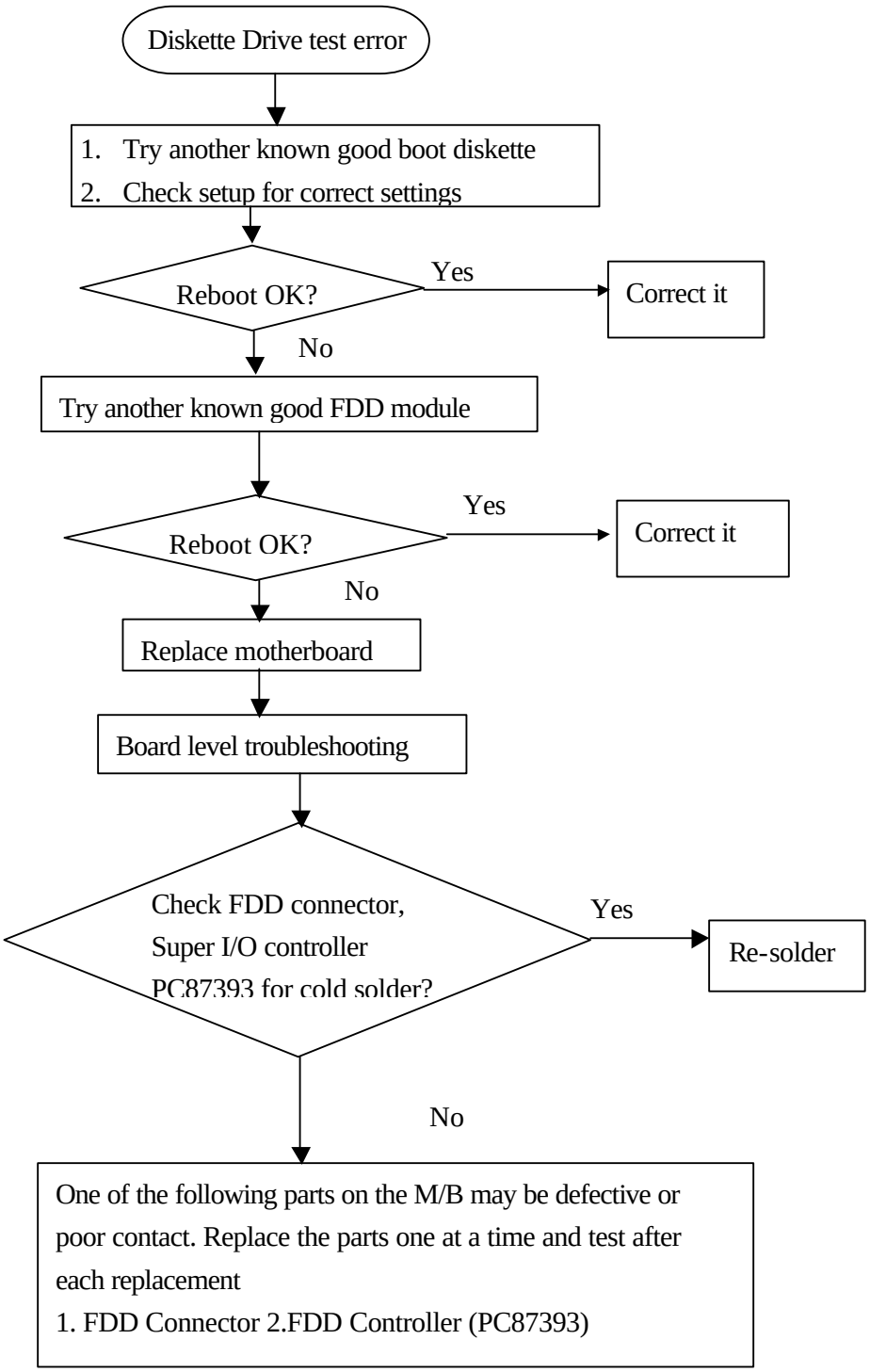
Symptom: An error message is shown when the Touch Pad point is enabled



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5.8 Diskette drive test error

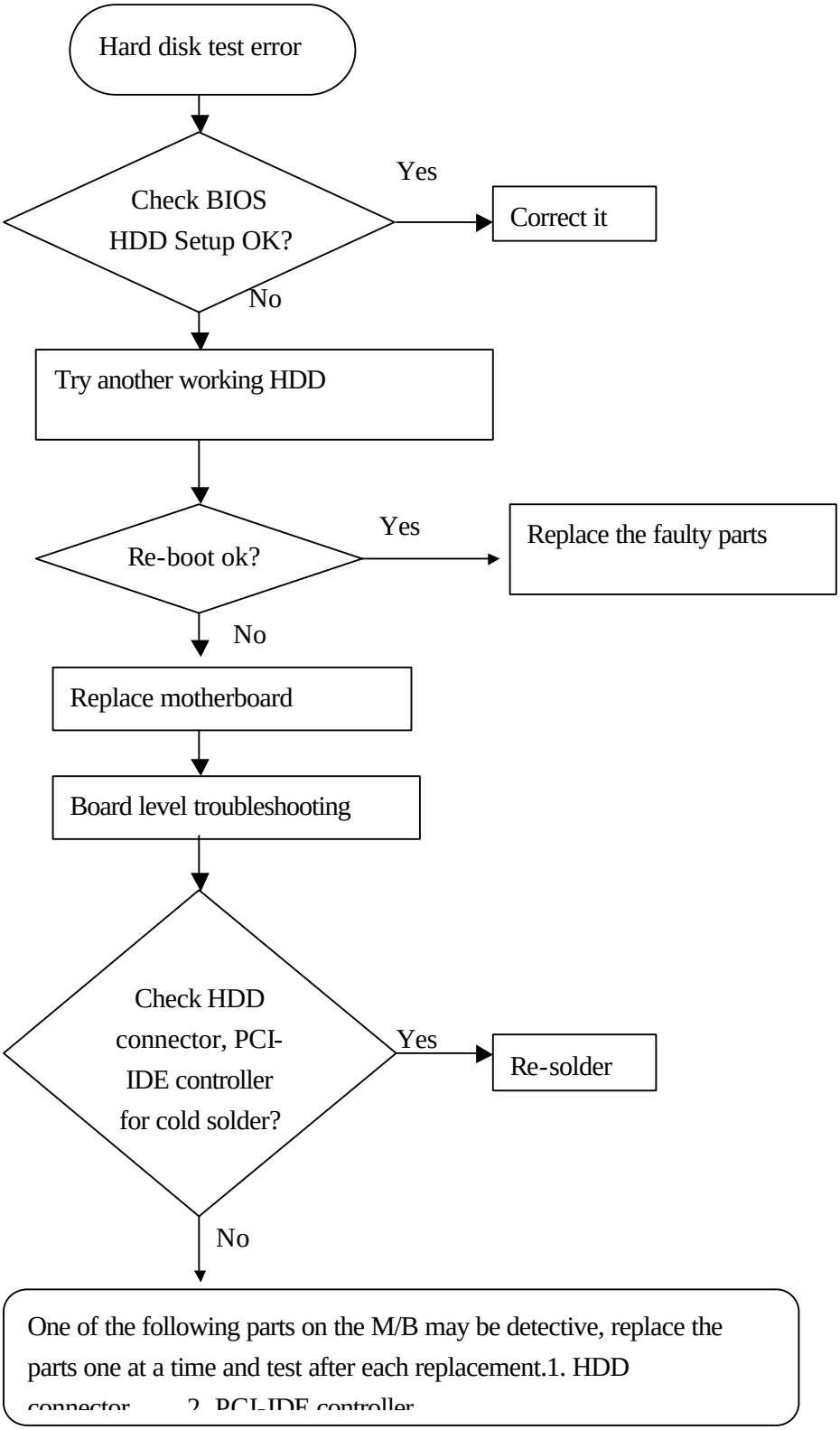
Symptom: An error message is shown while loading data from FDD to system



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5.9 Hard disk drive test error

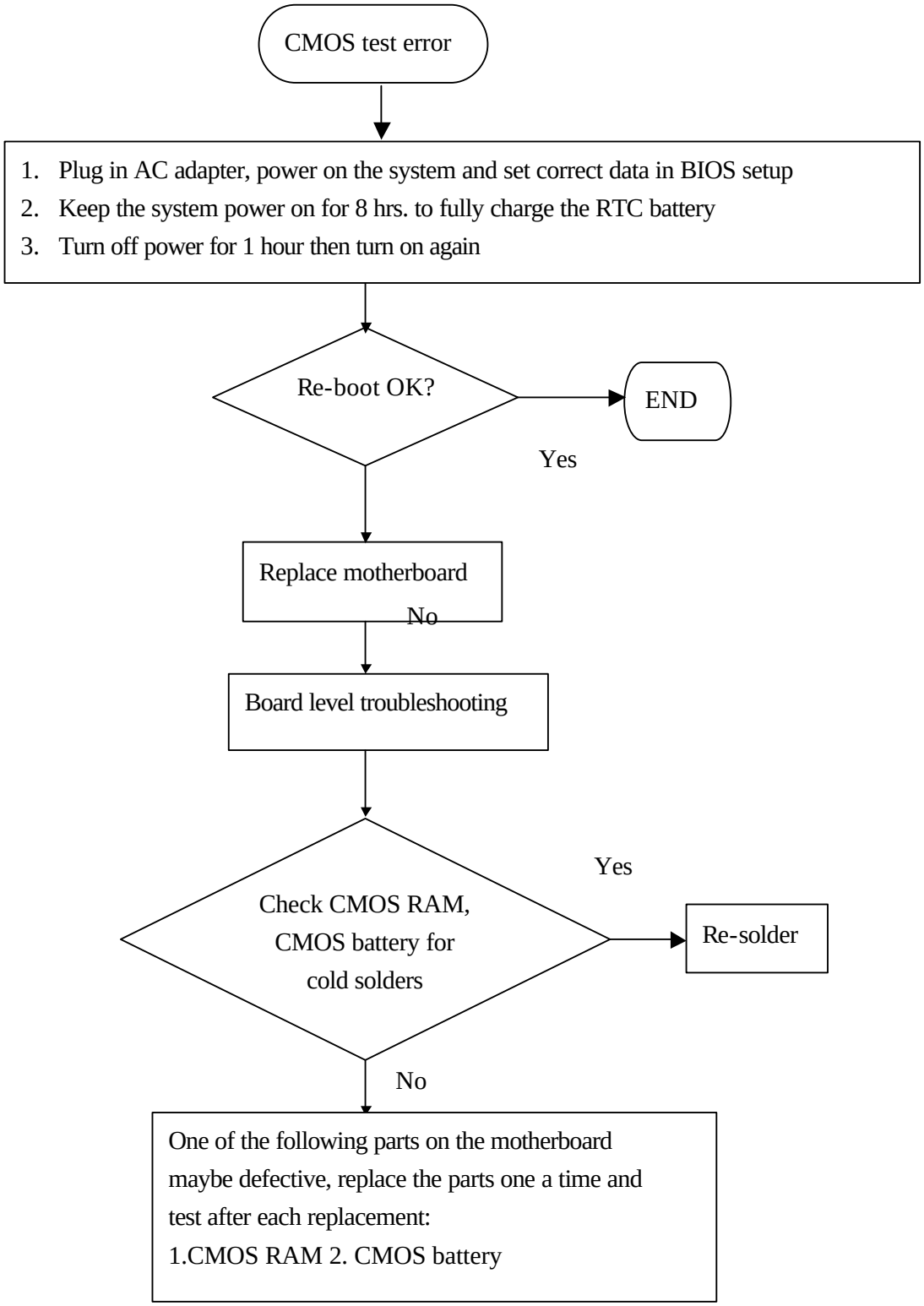
Symptom: Either an error message is shown, or the drive motor spins non-stop, while reading data from or writing data to Hard disk



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5.10 CMOS test error

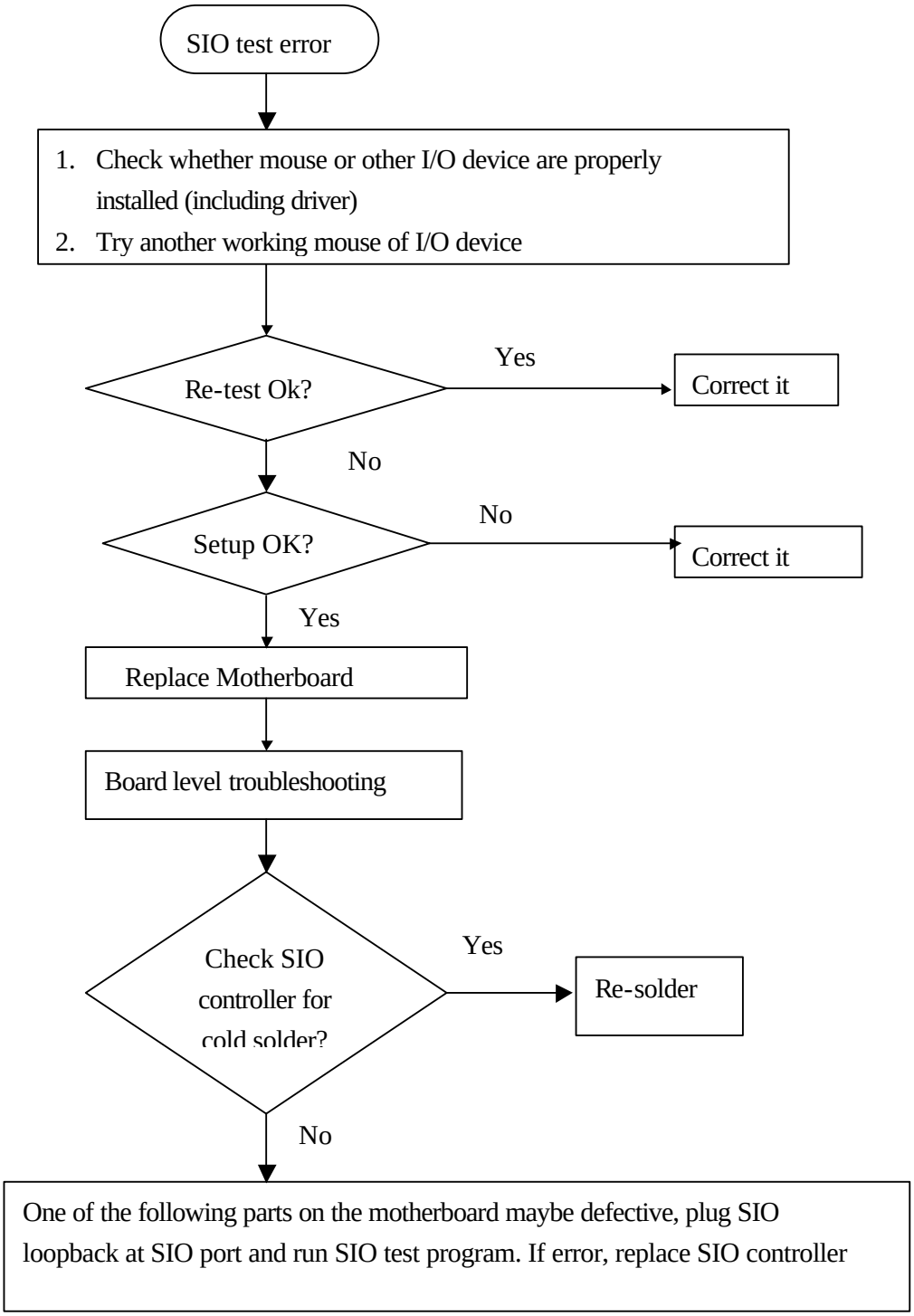
1. CMOS data lost, or inaccurate system time & data



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5.11 SIO port test error

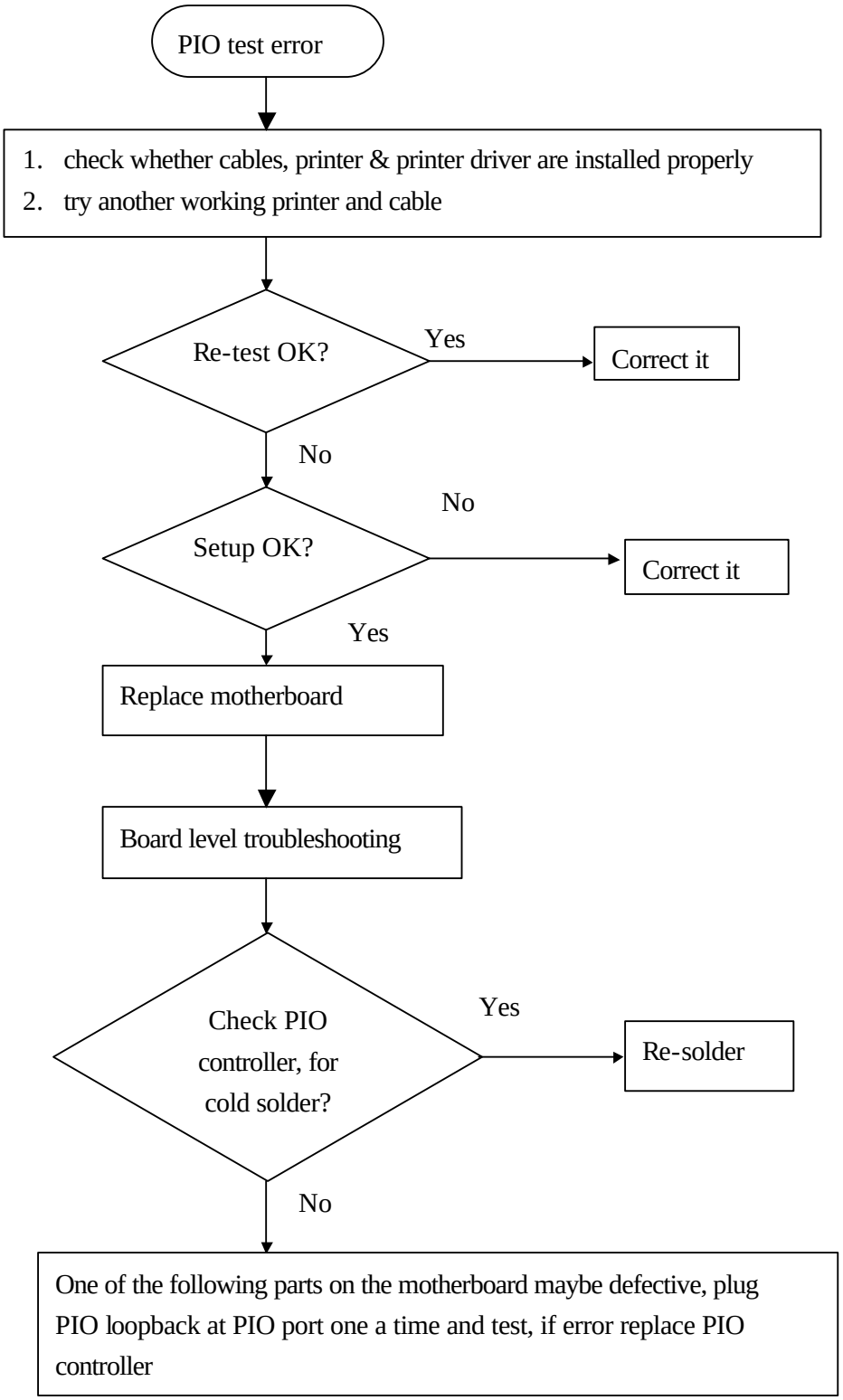
Symptom: An error display occurs when a mouse or other I/O device is installed



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5.12 PIO port test error

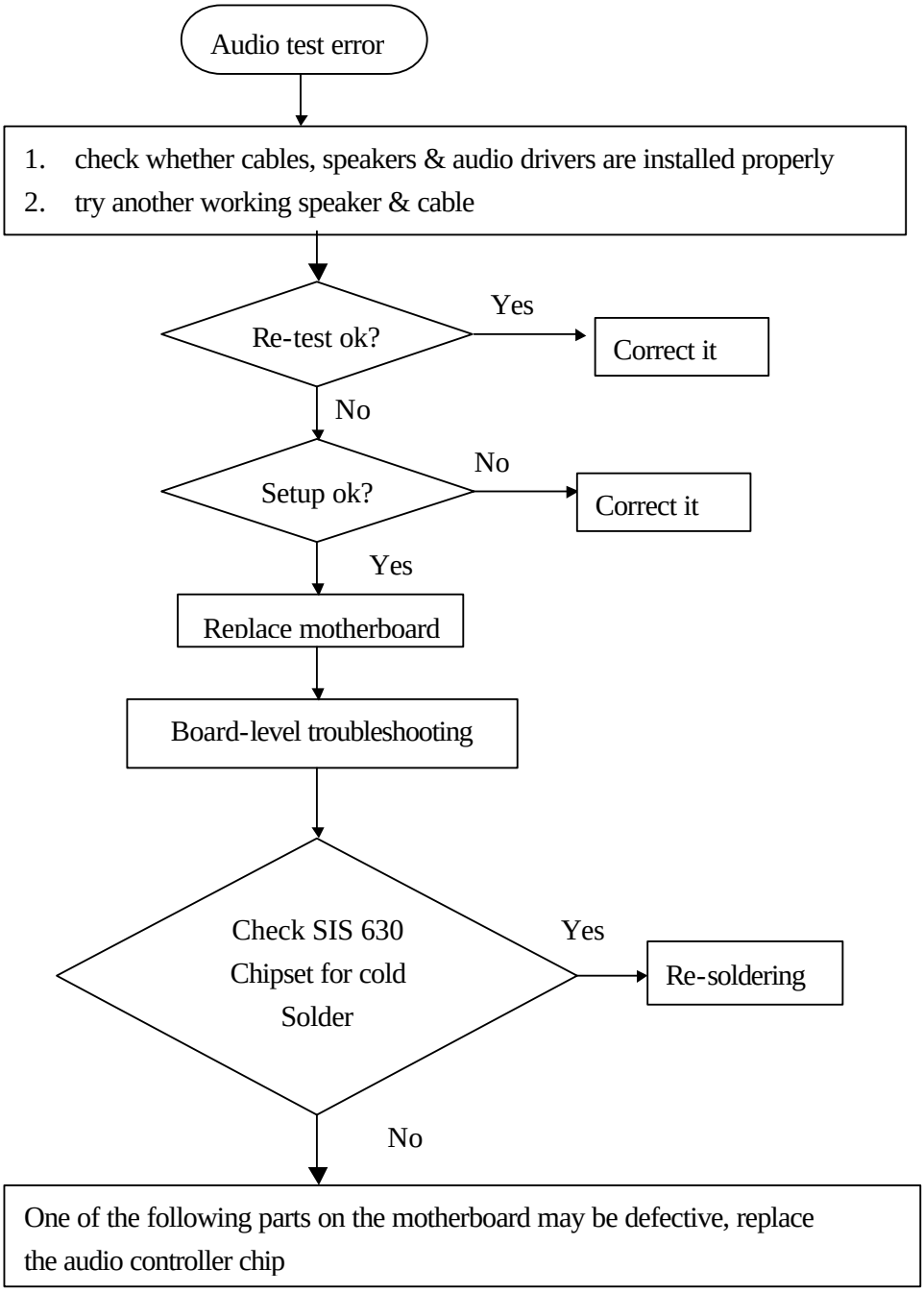
Symptom: When a print command is issued, printer prints nothing or garbage.



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5.13 Audio failure

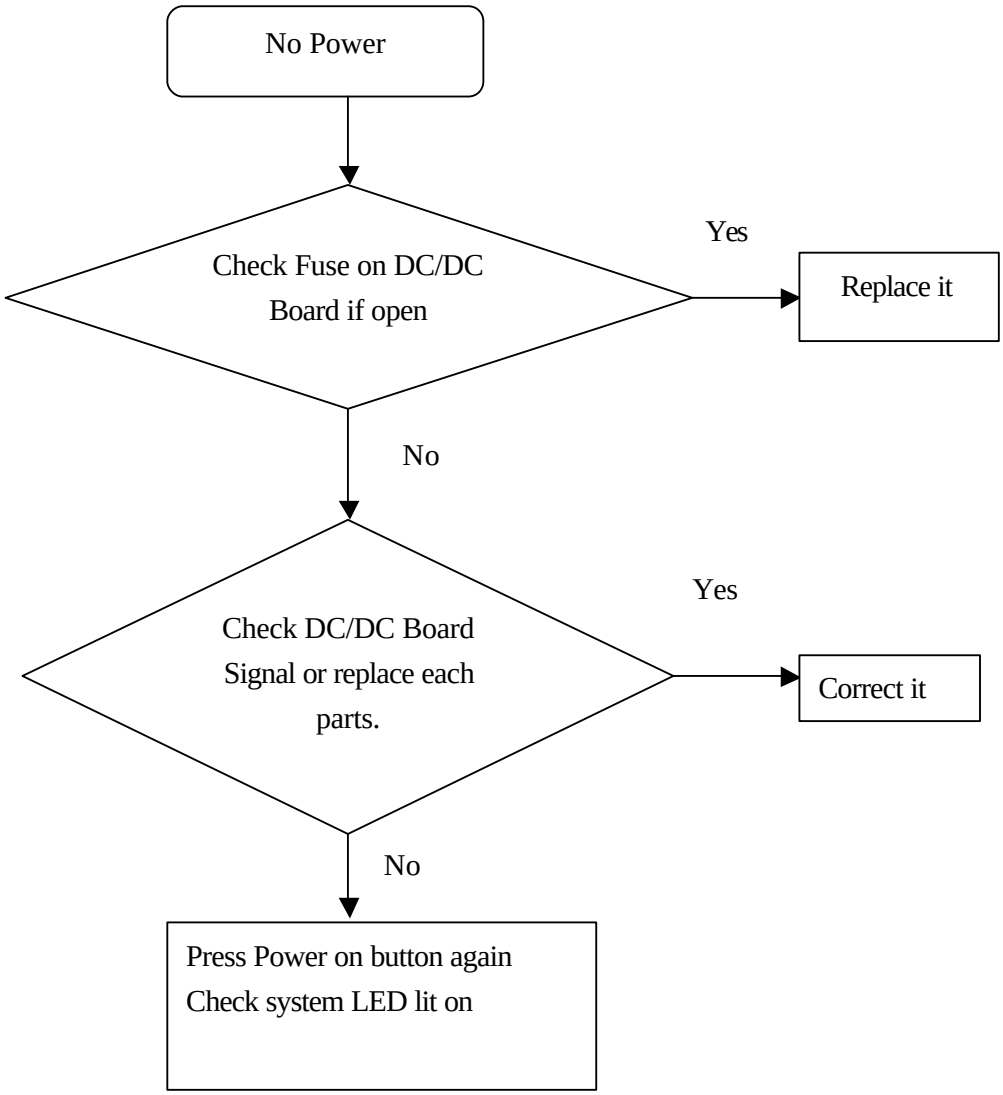
Symptom: No sound from speaker after audio drive is installed.



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5.14 No power symptom:

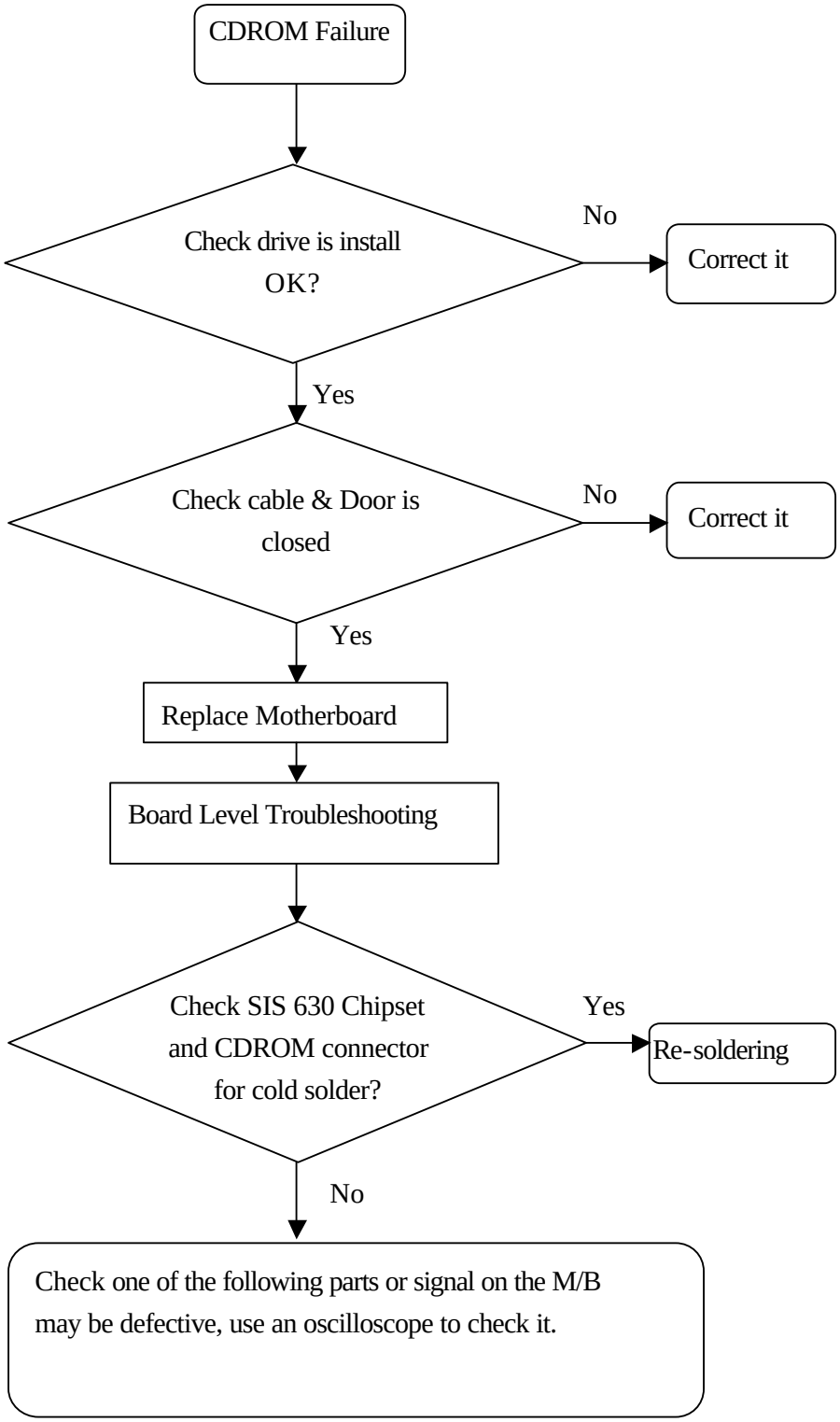
Symptom: When the power button is pressed, nothing happens, power indicator is not light up.



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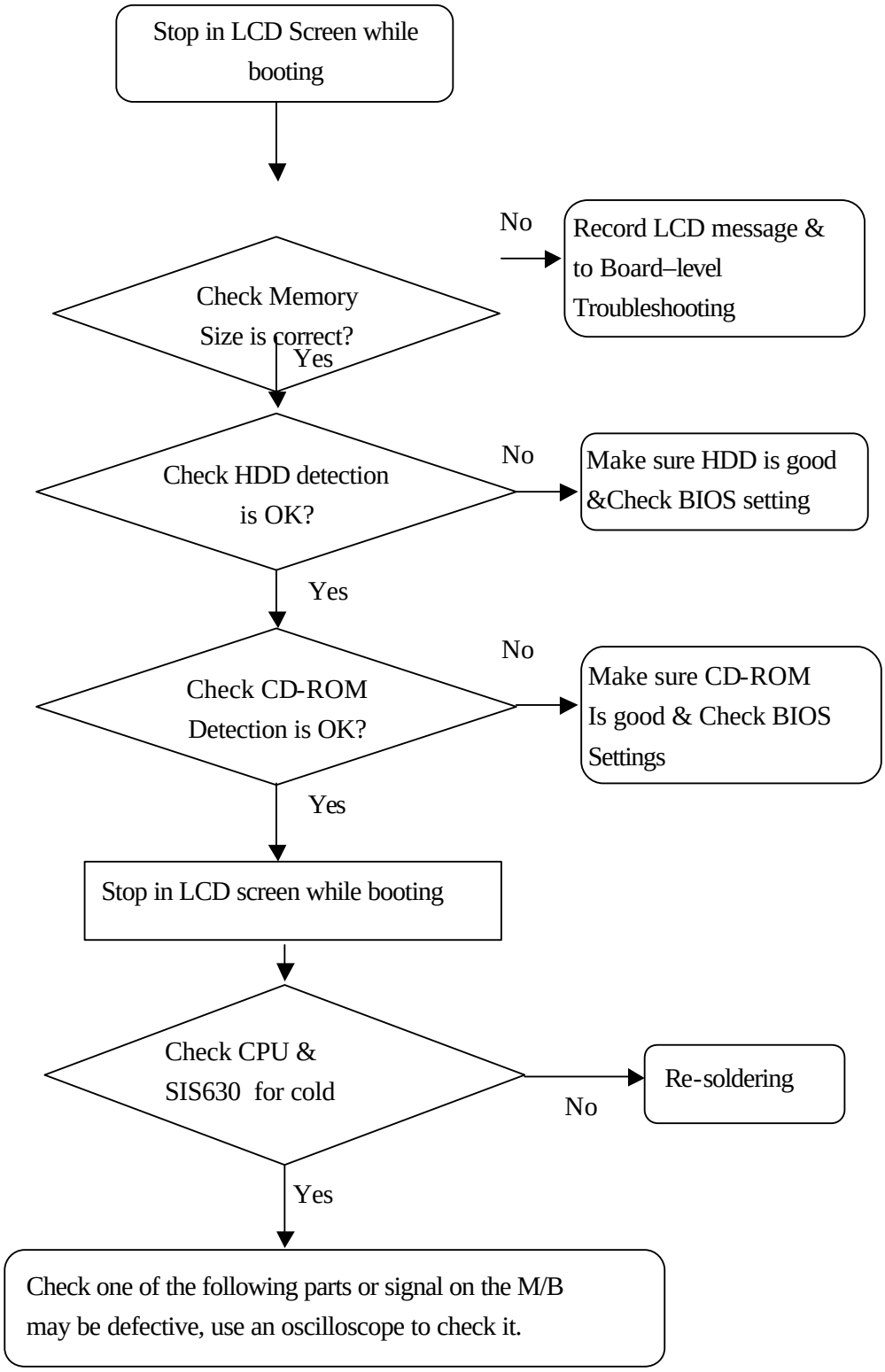
5.15 CD-ROM drive test error

An error message is shown when reading data from CD-ROM drive



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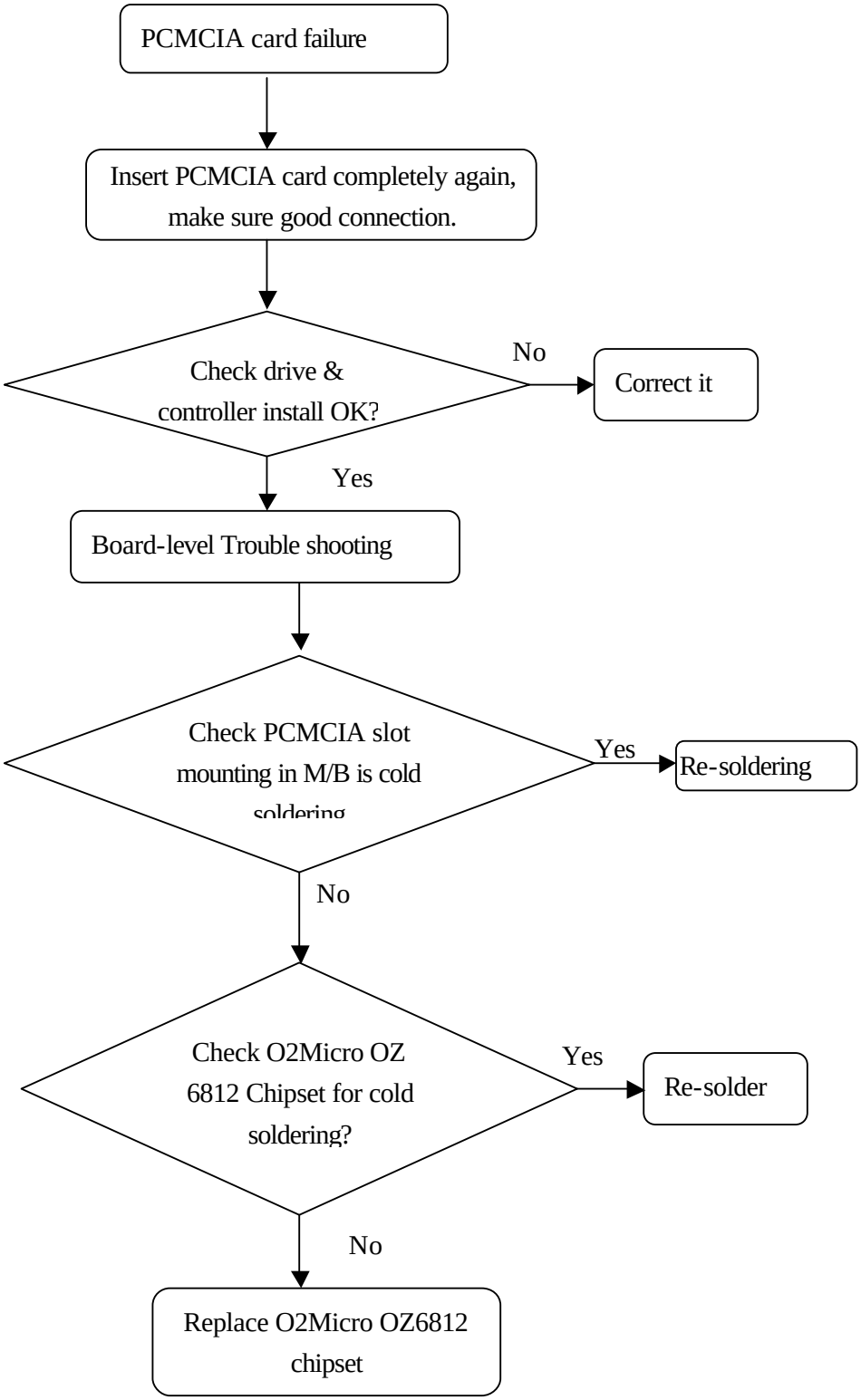
5.16 Stopping in LCD screen while booting



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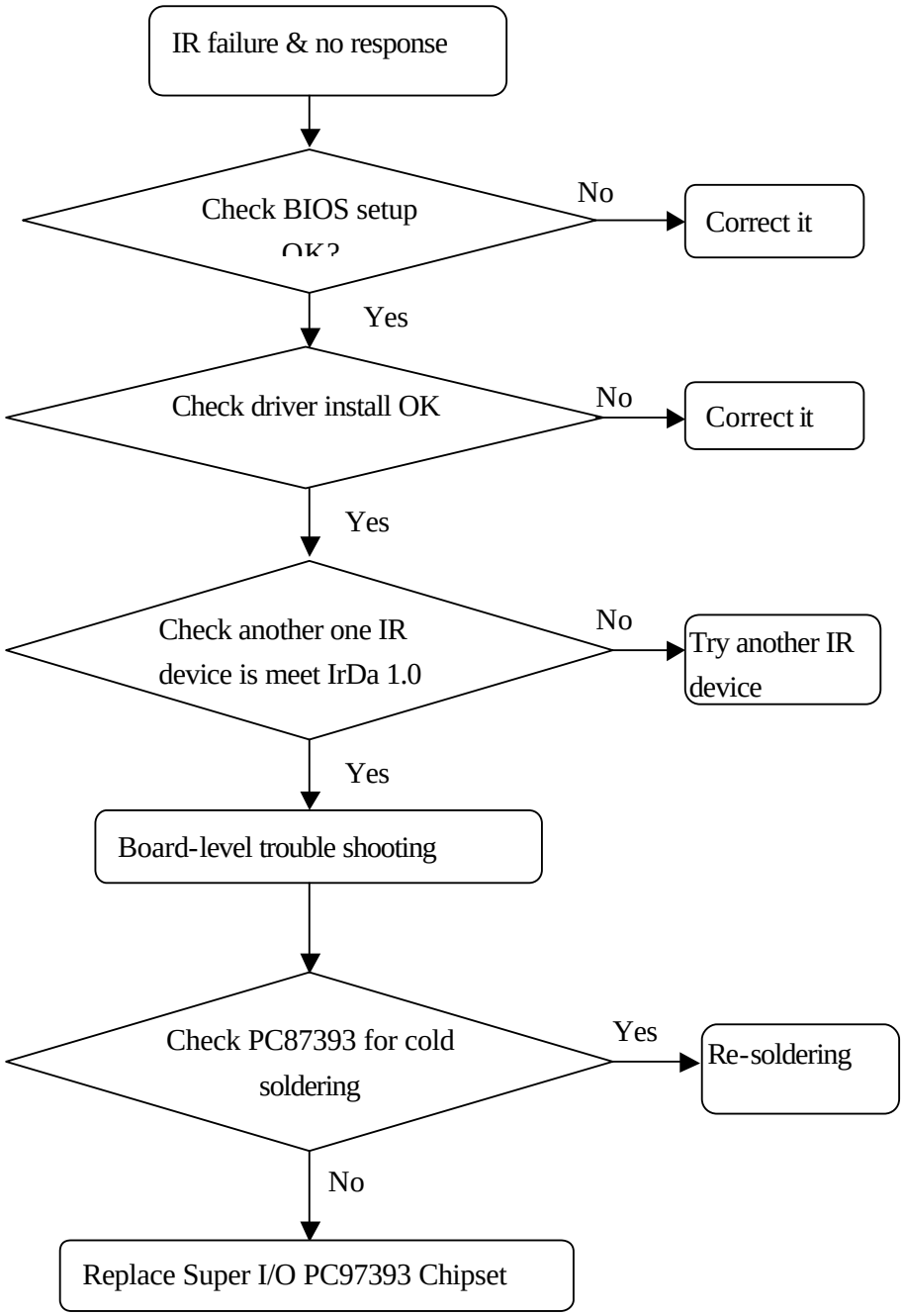
5.17 PCMCIA CardBus failure

Symptom : when insert PCMCIA card to PCMCIA slot, but system can't detect.



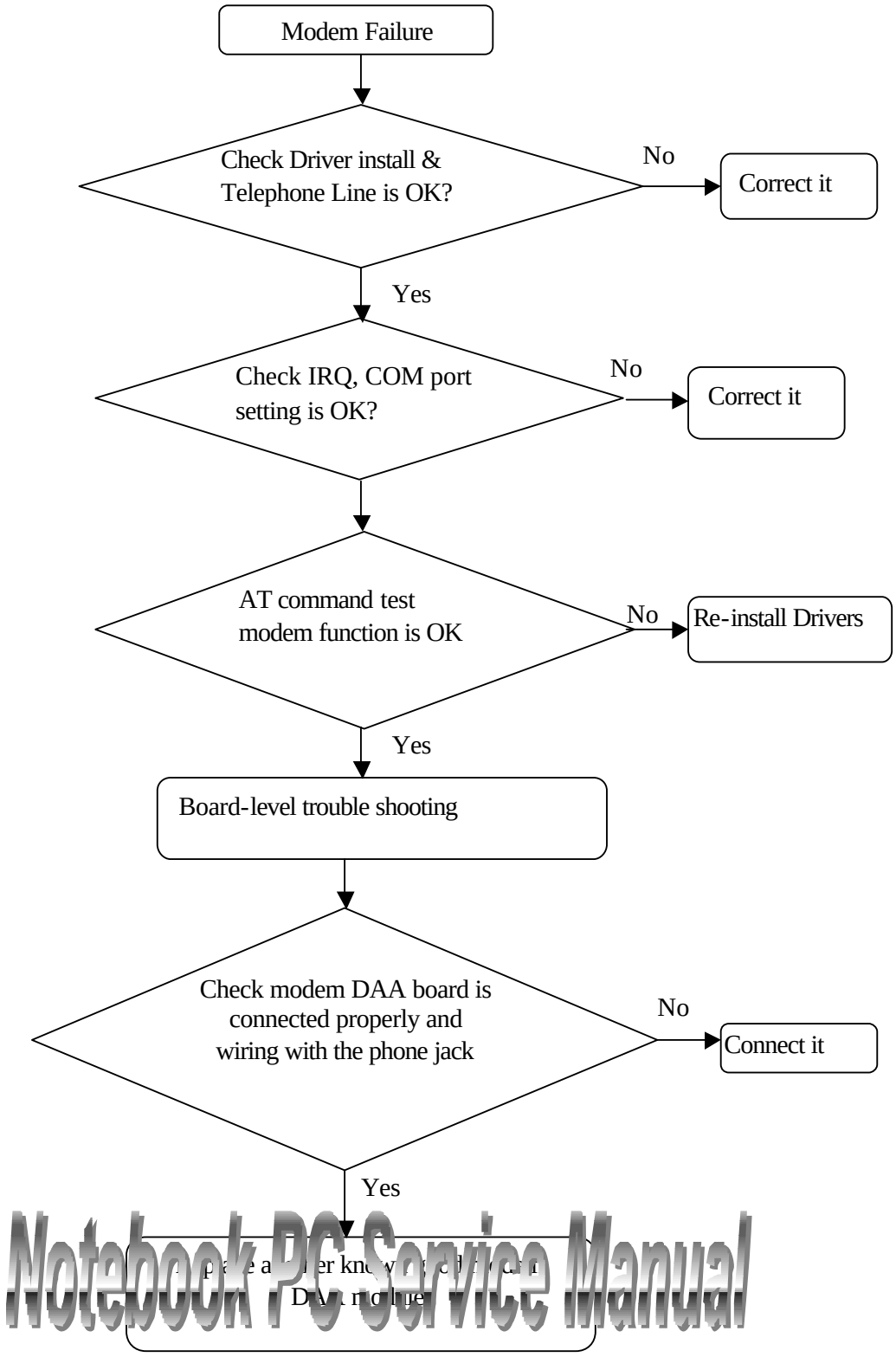
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5.18 IR Port can't transfer data.



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5.19 Modem failure



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Chapter 6
Peripheral Devices

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URL: http:// www.uniwill.com.tw/

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6.1 LCD

I. 14.1" TFT, XGA - Vendor – HYUNDAI, CHI MEI, CPY
II. 12.1" DSTN, SVGA – Vendor – SHARP
III. 13.3" TFT, XGA – Vendor – ACER, IMES
IV. 12.1" TFT SVGA – Vendor - Sanyo

6.2 FDD

External / Swappable FDD: 3.5" format
Capacity : 720KB / 1.44MB / 1.2MB (3 mode)

6.3 HDD

Dimension : 2.5", 8.5 / 9.5 mm height
Vendor : Toshiba and Fujitsu

6.4 CD-ROM

Vendor : QMATE, TEAC
Dimension : 12.7-mm height, 12/8 cm CD-ROM disc
PIO Mode 4, 24X
Average 3.1W, Sleep 0.05W
ATAPI Interface

DVD

Vendor : TORISAN, TOSHIBA
Dimension : 12.7mm height, 12/8cm CD-ROM disc
PIO Mode 4
Average 3.1W, Sleep 0.05W
ATAPI Interface

6.5 BATTERY:

Li-ION

Vendor : PANASONIC , GS
Battery type : Li-Ion, 8 cells (4S2P)
Battery capacity : 14.8V, 3200mAH, (47.36Whrs)

1.1.2. Charge Voltage : 16.8V +2.5% -1.0%

Charge temperature : 0~45°C
Discharge temperature : -20~60°C
End of Discharge : 11V
Cycle life= 500 times
Overcharge protection : when battery voltage reach 17.2 ±0.2V
Over-discharge protection : when battery voltage decrease to 10 ± 1V
Pre-charge current: 0.2A
Charge current : When system is power off : 2A
When system is powered ON : 1A

Ni-MH

Vendor : PANASONIC, TOSHIBA
Battery Type : Ni-MH, 10 cells (10S)
Battery Capacity : 12.0V, 4500mAh (54.0 watts)
Charge voltage : 16.8V +2.5% -1.0%
Charge temperature : 0~45°C

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Discharge temperature : -20~60°C
End of Discharge : 10V
Cycle life= 500 times
Pre-charge current: 0.2A
Charge current : When system is power off : 2A
When system is powered ON : 1A

6.6 TOUCH PAD

Synaptic
Capacitor sensor
Support edge motion
Support virtual scroll bar
Support 2 or 3 button mode
ESD withstand: 15KV
Power Consumption: 2.75mA / 5V
X/Y resolution: 500 points/inch
Interface: PS/2

6.7 KEYBOARD

Supplier : KC Matrix-290
Travel : 3.0 ±0.2mm
Support : 3 window keys
Key pitch : 19mm
Dimension : 249mm x 100.85mm x 7.8 mm

6.8 MODEM/FAX MODULE

Modem chip : LUCENT DSP1645 + CSP1034AH + CSP1027
Meet PC99 Window modem requirement
Support :
3.3V PCI bus / V.80 (for H.324) / DSVD(V.70) / half duplex speaker phone
V.34bis / AT command set / V.42 (LAPM) and MNP error correction
V.42bis and MNP5 data compression / 56Kflex protocol / V.17, V.29, V.27ter, V.21ch2 / VI Group III fax / telephony answering machine / DTMF generation and detection / V11. Local handset, telephone and microphone record / telephone line and headset or VIII. Peaked playback / voice view / caller ID / host base DSVD
Power : active=450mW idle=160mW sleep=10mW

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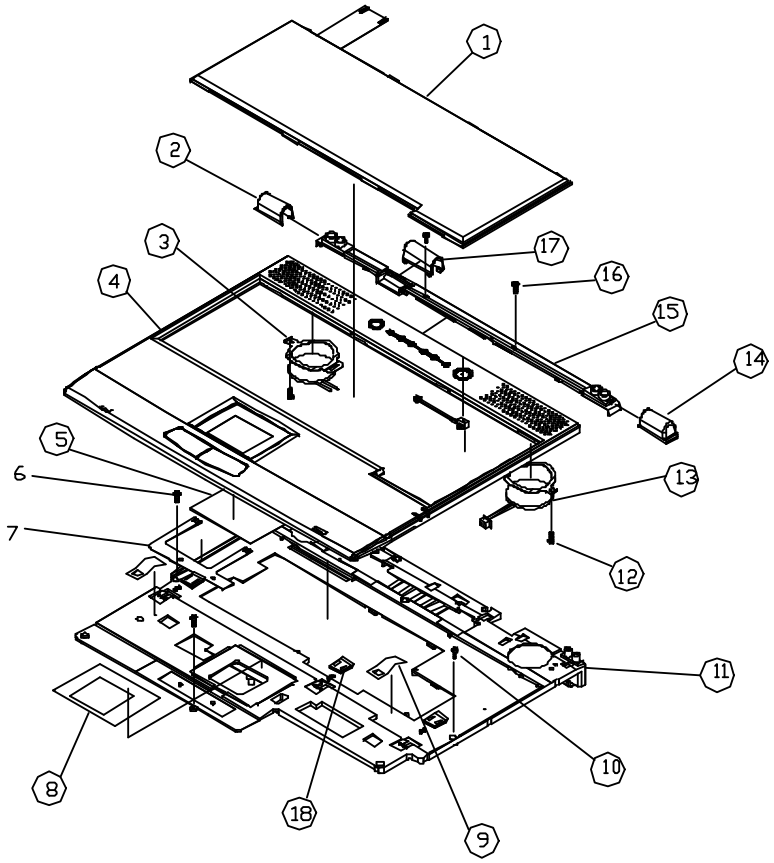
Chapter 7
Explosion Diagram

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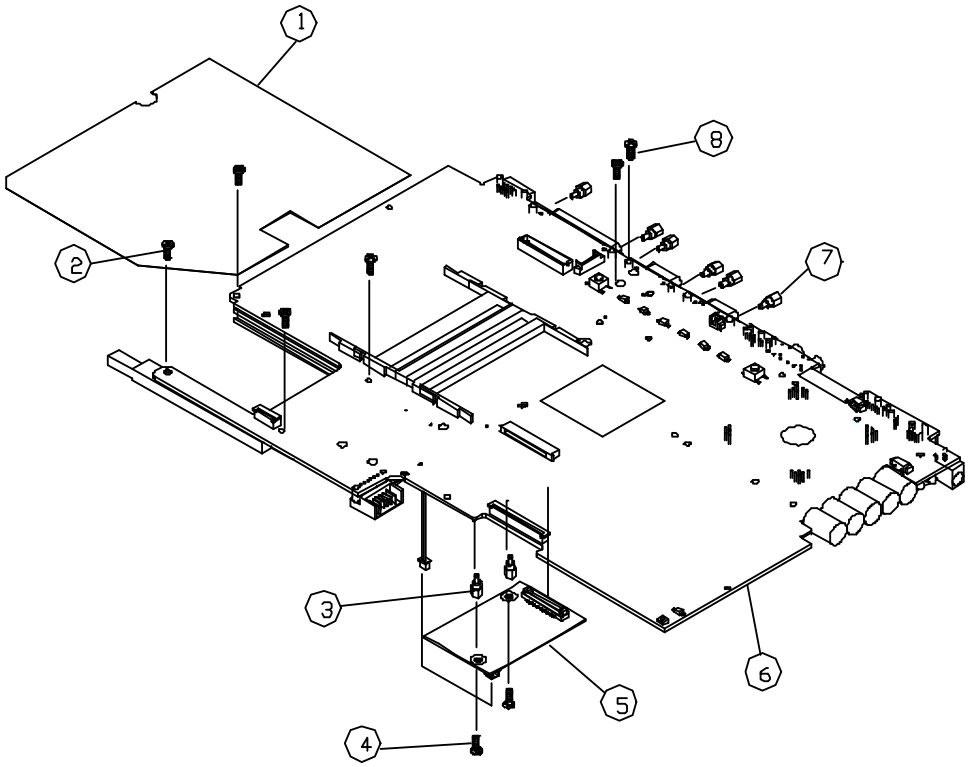
7.1 TOP CABINET ASSEMBLY



NO.	PART NUMBER	DESCRIPTION
1	71-002901-00	K/B US
2	50-352924-00	COVER HINGE (L) 340
3	40-102902-00	SPRING SPK 340
4	50-312927-00	TOP CAB. ASSY – ID2
5	74-08U204-00	T/P
6	41-720120-06	M2.0*6
7	7915034020	FPC T/P PAD
8	50-212904-00	ADHESIVE TAPE
9	40-102901-00	SPRING FOR K/B 340
10	41-720120-04	M2.0*4
11	50-312903-00	TOP HOUSING (MG) 340
12	41-720120-03	M2.0*3
13	22-300513-00	SPEAKER FG-36N081
14	50-352922-00	COVER HINGE (R) 340
15	50-352921-00	COVER HINGE FRAME
16	41-720120-03	M2.0*3
17	50-352924-00	COVER CABLE FOR 340
18	50-432911-00	LATCH K/B FOR (BLACK)

7.2 PCB (MOTHERBOARD) ASSEMBLY

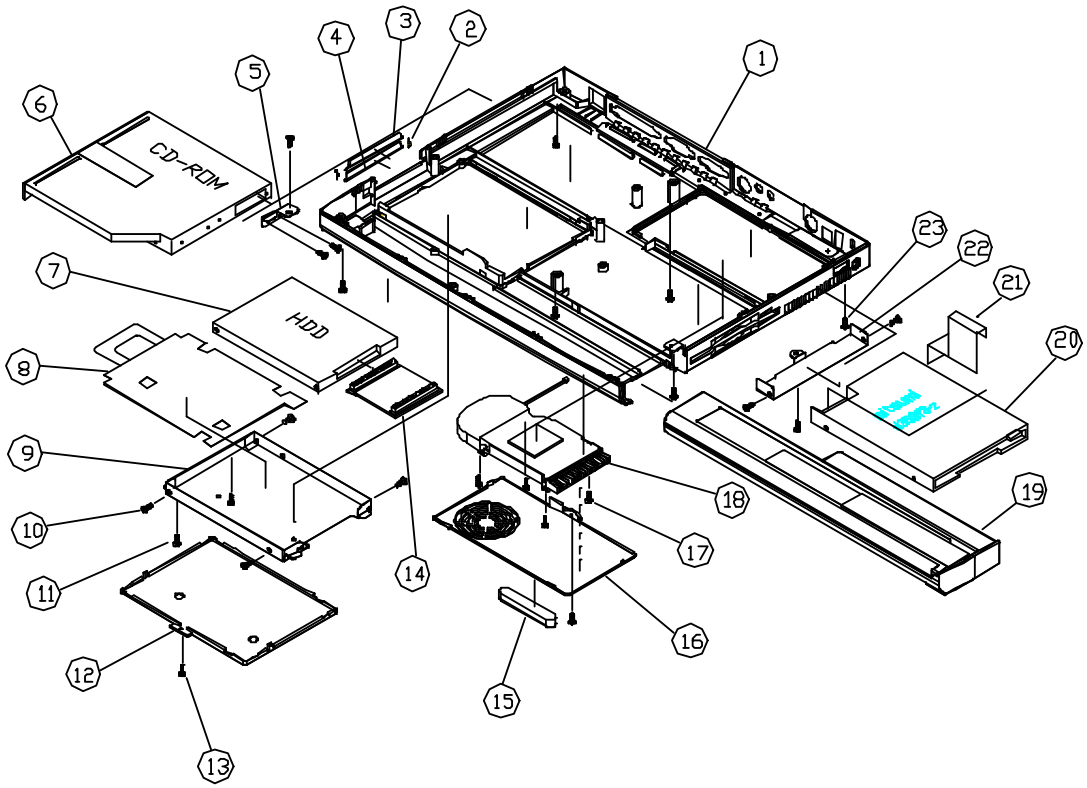
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NO.	PART NUMBER	DESCRIPTION
1	7914129030	MYLAR CD-ROM 340
2	41-720120-08	SCREW M2.0*8
3	41-300002-04	HEX M2.0*3(HEX*3)CU
4	41-720120-04	M2.0*4
5	76-0U0137-00	MODEM CARD
6	581510385AP	M/B ASSY
7	41-300002-21	HEX D4.8*10.2L
8	41-720120-06	SCREW M2.0*6

7.3 BASE CABINET ASSEMBLY

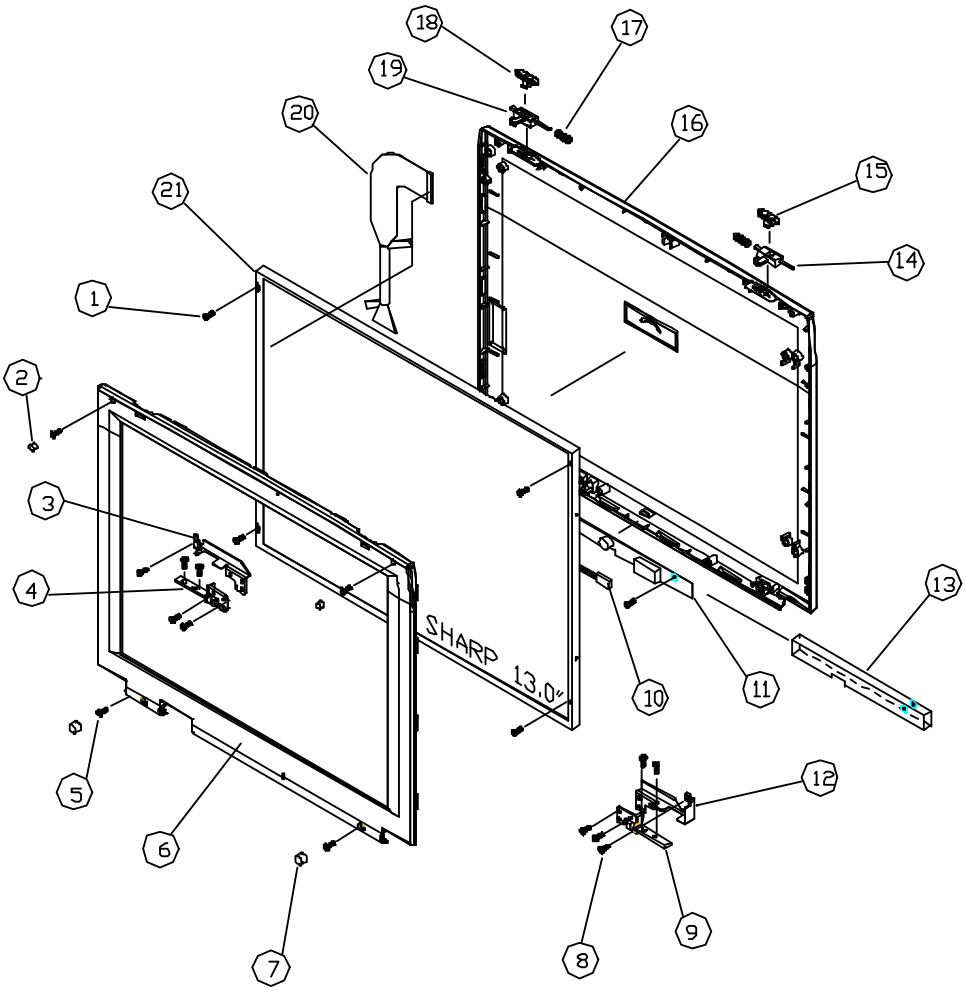
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NO.	PART NUMBER	DESCRIPTION
1	50-322903-00	BOTTOM CAB ASSY W/OUT TV OUT
2	40-102904-00	SPRING PCMCIA DOOR
3	50-202907-00	DOOR PCMCIA (U) 340
4	50-202908-00	DOOR PCMCIA (L) 340
5	40-302913-00	BRACKET CDROM 340
6	5810503401P	CD-ROM ASSY 24X QUANTA
7		HDD
8	50-212902-00	MYLAR HDD 340
9	50-502902-00	PLATE HDD 340
10	41-760230-03	SCREW M3.0*3
11	41-720120-04	SCREW M2.0*4
12	50-202906-00	DOOR HDD 340
13	41-720120-04	SCREW M2.0*4
14	29-102907-00	CABLE HDD 340
15	52-002901-00	RUBBER FOOT 340
16	50-202905-00	DOOR CPU 340
17	791C250452	SCREW M2.5*4.5 PAN
18	27-322911-00	THERMAL MODULE FOR 340S2
19	23-523200-21	BATTERY Li-Ion 3200mAH PAN.
20	5810603401P	FDD ASSY MITSUMI
	5810603402P	FDD ASSY TEAC
21	29-163403-00	FFC FDD
22	40-302914-00	BRACKET FDD 340
23	41-720725-08	SCREW M2X0.45X8

7.4 LCD ASSEMBLY

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NO.	PART NUMBER	DESCRIPTION
1	41-720525-06	SCREW M2.5*6
2	52-012919-00	RUBBER FOR DISPLAY (T) 340
3	40-302905-00	BRACKET (L) FOR LCD
4	40-152907-00	HINGE (L) A-TYPE 340
5	41-720525-06	SCREW M2.5*6
6	50-332921-00	FRONT CAB 14.1
7	52-012911-00	RUBBER FOR DISPLAY (B)
8	41-720120-04	SCREW M2.0*4
9	40-152909-00	HINGE (R) A-TYPE 340
10	29-102901-00	CABLE FOR LCD INVERTER 14.1
11	76-030533-00	INVERTER FOR 14.1”
12	40-302906-00	BRACKET (R) FOR LCD
NO.	**PART NUMBER**	**DESCRIPTION**
13	50-212900-00	MYLAR FOR INVERTER 340
14	50-242910-00	HOOK LCD (R) 340
15	50-412906-00	KNOB LCD (340)

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16	50-342961-00	BACK CABINET
17	40-101603-00	SPRING LCD GE-6200
18	50-412906-00	KNOB LCD 340
19	50-242910-00	HOOK LCD (L) 340
20	29-012900-30	CABLE FOR LCD
21	58103A55D1P	LCD 14.1"T CHI

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Chapter 8
Global Support

UNIWILL COMPUTER CORP.

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UNIWILL COMPUTER (EURO) B.V.
NetherLands:
Tarweweg 5, 6534 AM Nijmegen, The Netherlands
Tel: 31-24-388-3255, Fax: 31-24-356-5343

UNIWILL COMPUTER (US):
46716 Lakeview Blvd., Fremont, CA94538, USA
Tel: 1-510-580-6888, Fax: 1-510-580-5666

UNIWILL — RMA Number Request Form

CUSTOMER :	TEL :	DATE (YY/MM/DD) :
REQUESTOR :	FAX :	PAGE : __1___ OF __1___
ADDRESS :		EMAIL :

ITEM	SERIAL NUMBER	MODEL / PART NAME	FAILURE SYMPTOM	QTY.	CPU	RAM SIZE	LCD	HDD	BATTERY	FDD / LS120	FDD CABLE	CDROM/ DVD	CDROM CABLE	MODEM CARD	LAN CARD	AC-DC ADAPTOR	POWER CORD	USER MANUAL	UTILITY CD	DRIVER DISKETTE	CARRY BAG	IN-WARRANTY	OUT-WARRANTY
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

UNIWILL Customer Service Division	TEL: 886-3-4616000	FAX : 886-3-461-6384
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CUSTOMER Signature :	UNIWILL Approval:	Issued By :	Date :
	RMA Number:	Received By:	Date :
Request Date :		Approved By :	Date :

ST2S-01B

Remark: Any pertinent information you can provide us to expedite our response will be greatly appreciated. When filling up information in the "failure symptoms" space, please note the following: 1. Possibility of duplicating the problem for our study purposes. 2. Frequency of problem occurrence 3. Any results from regenerating the problem on the other types of system (e.g., IBM products, any other models of Uniwill machines, etc.) 4. Circumstances that may cause this problem (e.g. making alternations in the system configuration such as installing a video adapter, etc.)

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Index

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UNIWILL

Table of Contents

Chapter 1. General System Description
Contents :

1.1 System Features ……..……. 1-2
1.1.1 General Features…… 1-2
1.1.2 Hardware Specifications..…….. 1-2
1.2 System Specification
1.2.1 System Board..…….....…….. 1-4
1.2.1 System Block Diagram……..……. 1-5
1.2.2 LCD Display…..……. 1-6
1.2.3 Power Plans…..…….……... 1-6
1.2.4 Power Source Status..…… 1-6
1.2.5 DC/DC Board……..…….. 1-7
1.2.6 AC-DC Adapter…..…… 1-7
1.2.7 Inverter…….... 1-7
1.2.8 Battery Pack ….…… 1-7
1.2.9 Memory Module…..……... 1-7
1.2.10 Interrupt Request Channel …… 1-8
1.2.11 DMA Channel ……....…… 1-9
1.2.12 System LED Indicator……..…..……..….. 1-9
1.2.13 Hot Key…… 1-9

Chapter 2. Connector and Switch Definition
Contents :

2.1 Connector Definitions…...……. 2-2
2.1.1 Memory DIMM144 ……..……...……... 2-2
2.1.2 Modem/B ……..…….…….. 2-3
2.1.3 LCD ……..…….. 2-3
2.1.4 Inverter ……..…… 2-4
2.1.5 CRT……..…..…… 2-4
2.1.6 2-4

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USB……..……...
2.1.7 2-5
RJ45…….……
2.1.8 2-5
RJ11…….…….…….
2.1.9 Modem Phone and Modem 2-5
…..……..
2.1.10 MDC 2-5
……..……..……
2.1.11 MIC Jack 2-6
……..
2.1.12 Speaker 2-6
Jack....……....
2.1.13 R/L Speaker 2-6
…….……..…
2.1.14 PCMCIA 2-7
…..……..……..……...
2.1.15 2-7
HDD……..……..……
2.1.16 2-8
CDROM…..…….……..…….
2.1.17 2-8
FDD……..…….……..…
2.1.18 Parallel 2-9
…….……
2.1.19 Serial… 2-9
……..…….
2.1.20 LID…… 2-9
2.1.21 Internal KB……... 2-10
2.1.22 Test ……..……. 2-10
2.1.23 Fan2 ….……..……..…… 2-10
2.1.24 Fan1 ……..……..……. 2-11
2.1.25 PS/2 ……..……..……..…… 2-11
2.1.26 Power Switch ...……..……. 2-11
2.1.27 AC ……..……..……..…… 2-11
2.1.28 Battery……..……..……..…… 2-12
2.1.29 Touch Pad....……..……..…… 2-12
2.1.30 But_SW_0..……..……..…… 2-12
2.2 Mechanical Buttons and Switch Definition..……. 2-13
2.3 Major Components and Connectors Location..……. 2-15

Chapter 3. Major Components
Contents :
3.1 Major Component List (Mainboard)…..……... 3-2
3.2 Major Component Pin Assignment……... 3-3

Chapter 4. System Disassembly
Contents:
4.1 System Disassembly……..…… 4-2
4.2 Top Housing Disassembly…..…….. 4-9
4.3 LCD Panel Disassembly……..…… 4-10

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Chapter 5. Trouble Shooting
Contents :

Troubleshooting List 5-2
5.1 No display (system failure) 5-3
5.2 VGA controller failure 5-4
5.3 LCD no display or invalid picture..... 5-5
5.4 External monitor has no display or color abnormal 5-6
5.5 Memory test error 5-7
5.6 Keyboard test error 5-8
5.7 Touch pad test error 5-9
5.8 Diskette drive test error 5-10
5.9 Hard disk drive test error 5-11
5.10 CMOS test error 5-12
5.11 SIO port test error 5-13
5.12 PIO port test error 5-14
5.13 Audio drive failure 5-15
5.14 No power symptom 5-16
5.15 CDROM Drive test error..... 5-17
5.16 Stopping in LCD screen while booting..... 5-18
5.17 PCMCIA Cardbus failure..... 5-19
5.18 IR Port can't transfer data..... 5-20
5.19 Modem failure..... 5-21

Chapter 6. Peripheral Devices
Contents :

6.1 LCD..... 6-2
6.2 FDD..... 6-2
6.3 HDD..... 6-2
6.4 CD-ROM /DVD 6-2
6.5 Battery..... 6-2
6.6 Touch Pad..... 6-3
6.7 Keyboard 6-3
6.8 Modem/Fax Module..... 6-3
6.10 AC Adapter..... 6-4

Chapter 7. Explosion Diagram
Contents :

7.1 Top Cabinet Assembly..... 7-2
7.2 PCB Motherboard Assembly..... 7-3
7.3 Base Cabinet Assembly..... 7-4
7.4 LCD Assembly..... 7-5

Chapter 8. Global Support 8-1

Contents :

Chapter 8. Global Support Problem 8-2

Worksheet.....

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