

SERVICE MANUAL

2200T / 2700T



notebook

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Version 1.0

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Chapter 1: Introduction

This manual covers information you will need to service or upgrade your Notebook Computer. Information about operating the computer (e.g. getting started, etc...) is in the User's Manual. Driver Information is also found in the User's Manual. The User's Manual is shipped with the computer. Operating Systems (Windows ME, Windows 2000, etc.) have their own manuals as do application software. If you have any questions regarding those, please consult their user's manual.

This manual is intended for service personnel who have completed sufficient training to undertake maintenance and inspection of personal computers. It is organized to allow you to look up basic information for servicing and/or upgrading components of the notebook computer. The following information is covered.

- **System overview**
- **Disassembly**
- **Mechanical drawings and Parts Lists**
- **Schematic Diagrams**
- **Switch Settings**
- **Updating the Flash ROM BIOS**

System specifications (general)

The main unit of the 2200T/2700T Notebook PC has the following components:

- Intel Pentium III-S/Pentium III/Celeron with AGP technology-based mainboard, using the SiS630ST chipset solution supporting SDRAM with 0MB on-board DRAM, expandable to 32MB, 64MB, 128MB, 256MB, 512MB or 1GB using one or two expansion SODIMMs
- user-installed modules: CD-ROM or DVD-ROM or CD-RW or DVD+CD-RW
- main storage (HDD) bay: principal 12.7/9.5mm IDE HDD supporting DMA mode 2, PIO mode 4, ATA-33/66/100
- User interfaces
 - one internal, A4-size, AT-compatible keyboard
 - one built-in touchpad
 - one 1024x768 XGA Color TFT LCD with CCFT backlight, size 13.3" or 14.1" supporting IDCT
- Power Solutions
 - power bay: battery pack
 - AC adapter

CPU

Intel Pentium III-S

0.13 Micron Process Technology

Package	Socket 370 (FC-PGA2)
L2 Cache	512KB
Speed	1.13/1.26/1.4 GHz

Intel Pentium III

0.13 Micron Process Technology

Package	Socket 370 (FC-PGA2)
L2 Cache	256KB
Speed	1.13/1.2 GHz

0.18 Micron Process Technology

Package	Socket 370 (FC-PGA)
L2 Cache	256KB
Speed	1.0 GHz

Intel Celeron

0.13 Micron Process Technology

Package	Socket 370 (FC-PGA2)
L2 Cache	128KB
Speed	1.2/1.3/1.4 GHz

0.18 Micron Process Technology

Package	Socket 370 (FC-PGA)
L2 Cache	128KB
Speed	800/850/900/950 MHz/1.0 GHz

Core Logic

SiS 630ST

System Memory

Socket:	2 SODIMM sockets
Type:	SDRAM, 100/133MHz (PC100/ PC133)
Supported Modules:	32/64/128/256/512MB SODIMM
Base	0 MB
Expansion	1 GB

BIOS

InSyde 256KB

Video

Controller built-in SiS630ST
Memory* SSMA
Built-in Display 13.3"/14.1", XGA, TFT
Ports external CRT monitor port (x1)
S-Video connector (x1)

* The system allocates or "shares" a portion of system memory for video use. "Shared" memory size is user-configurable via the SCU. The video memory can be set to 8MB/16MB/32MB/64MB.

Audio

Controller built-in SiS630ST
Compatibility Sound Blaster, MS Windows
Sound System
Compliance AC'97 specs
Built-in speaker x2
Built-in mic x1
Ports mic-in or S/PDIF out jack (x1)
speaker-out jack (x1)

Storage Devices

HDD (fixed) 2.5", 9.5mm/12.7mm (h),
IDE interface
supporting DMA mode 2, PIO
mode 4, ATA-33/66/100

FDD (fixed) 3.5", 1.44MB, 3-mode

12.7mm CD Device

24X CD-ROM
8X DVD-ROM
4X CD-RW
DVD-ROM+CD-RW combo

Input

Keyboard A4-size, AT-compatible, with
special function keys and
built-in numeric keypad

TouchPad PS/2 interface

I/O Ports

IEEE 1394 port x 1 (unpowered)
Parallel port x 1 (supporting ECP/EPP
1.7 & 1.9 modes)
PS/2 port x 1

External CRT monitor port	x 1
Infrared port	x 1 (supporting IrDA 1.1, ASKIR and FIR modes)
Microphone-in or S/PDIF out jack	x 1
Speaker-out jack	x 1
S-Video connector	x 1
USB port	x 2
RJ-45 jack for 100M/10M LAN	x 1
RJ-11 jack for 56K MDC modem	x 1
DC-in jack	x 1

PCMCIA

1 Socket for Type II cards with CardBus support

Communication

100M/10M LAN	on-board
Modem module	MDC, 56K, V.90 compliant (optional)

Power

Full Range AC adapter

Input	100 - 240VAC, 50/60Hz, 1.5A (max)
Output	20VDC, 3.25A, 65W (max)

Battery pack smart, Lithium-Ion

Power Saving Management

APM ver 1.2 support	YES
ACPI Ver 1.0b support	YES
Soft Off by power button	YES
Suspend to disk support	YES
Battery low suspend	YES
Resume from alarm time	YES
Resume from modem ring	YES

Environment

Temperature

Operating	5°C ~ 35°C
Non-Operating	-20°C ~ 60°C

Relative Humidity

Operating	20% ~ 80%
Non-Operating	10% ~ 90%

Physical

Dimension

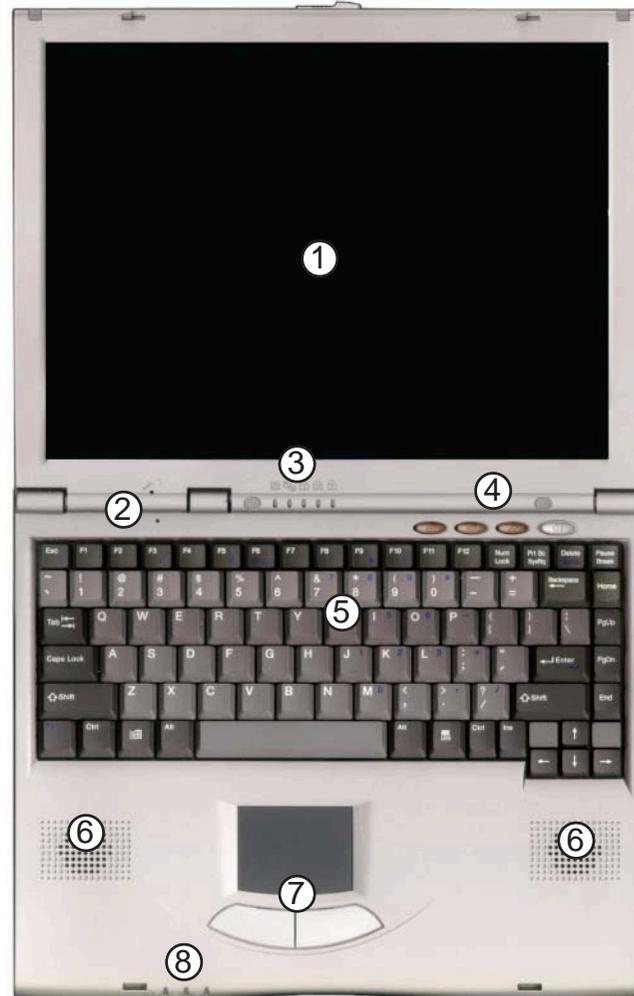
308 mm(W) x 254mm(D) x 37.5mm(H)

Weight

3.25KG (with Lithium-Ion battery)

External components 2200T

- 1) LCD panel
- 2) microphone
- 3) LED status indicators
- 4) Hot keys and power button
- 5) Keyboard
- 6) Stereo speakers
- 7) TouchPad and buttons
- 8) LED power indicators
- 9) Open latch
- 10) RAM cover
- 11) Battery cover

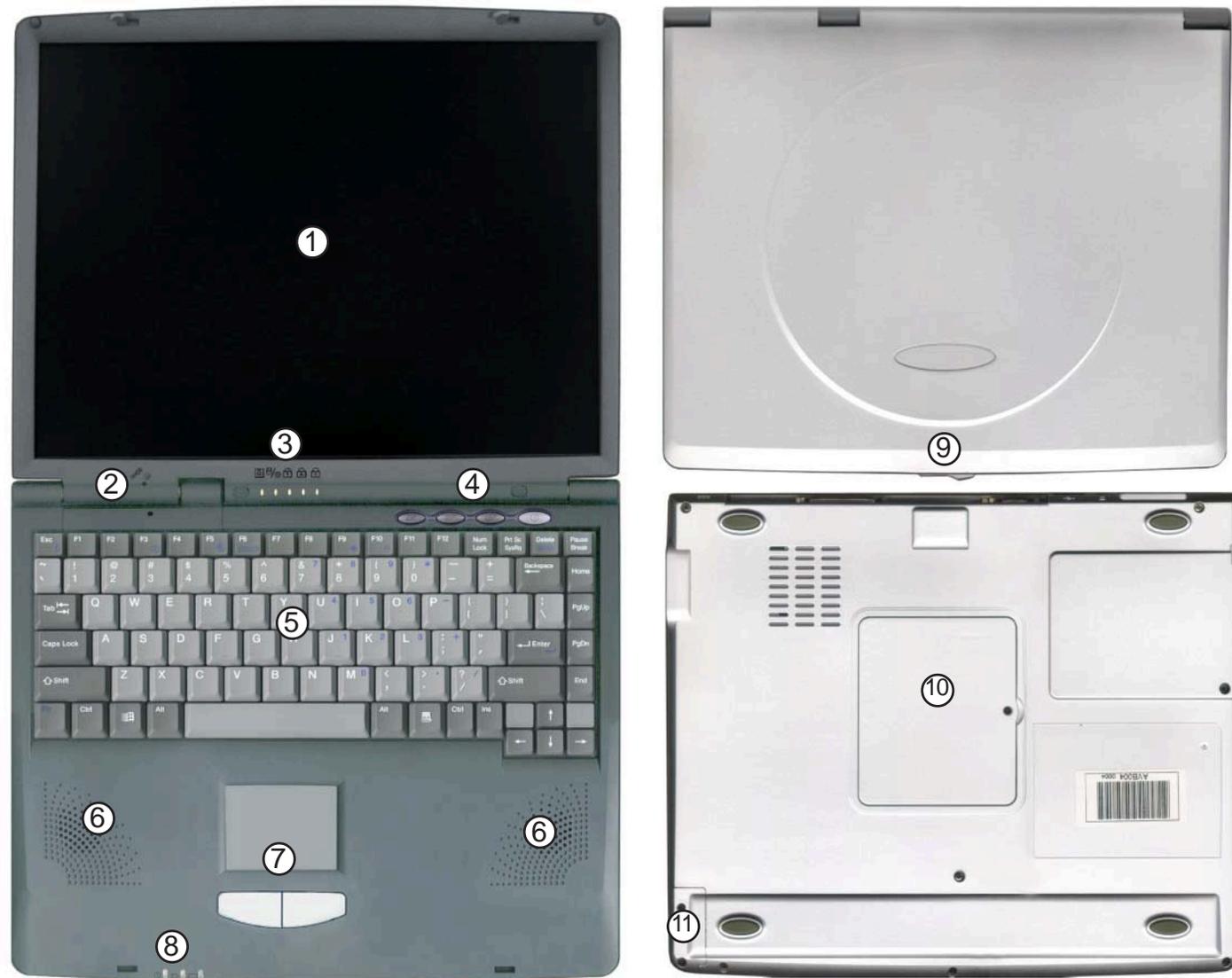




- 12) Mic-in jack
- 13) Speaker-out jack
- 14) Volume knob
- 15) PC Card slot
- 16) Infrared port
- 17) FDD
- 18) CD device
(CD-ROM/DVD-ROM/CD-RW/
DVD+CD-RW)
- 19) Vent
- 20) Security slot
- 21) DC-in jack
- 22) PS/2 type port
- 23) Parallel port
- 24) Phone jack
- 25) Vent
- 26) External CRT
monitor port
- 27) Dual USB ports
- 28) S-Video
connector
- 29) IEEE1394 port
- 30) LAN jack

2700T

- 1) LCD panel
- 2) microphone
- 3) LED status indicators
- 4) Hot keys and power button
- 5) Keyboard
- 6) Stereo speakers
- 7) TouchPad and buttons
- 8) LED power indicators
- 9) Open latch
- 10) RAM cover
- 11) Battery cover





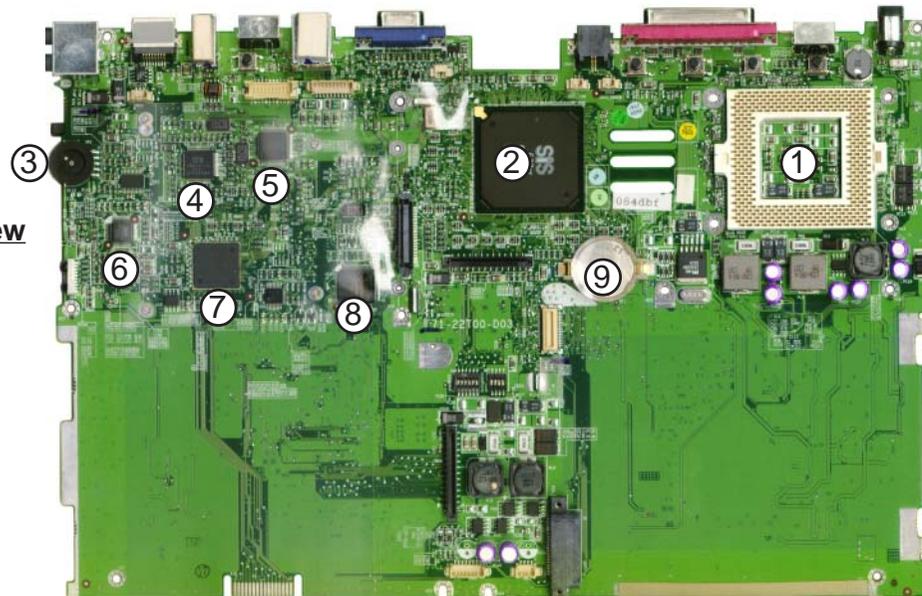
- 12) Mic-in jack
- 13) Speaker-out jack
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(CD-ROM/DVD-ROM/CD-RW/
DVD+CD-RW)
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- 21) DC-in jack
- 22) PS/2 type port
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- 24) Phone jack
- 25) Vent
- 26) External CRT
monitor port
- 27) Dual USB ports
- 28) S-Video
connector
- 29) IEEE1394 port
- 30) LAN jack

Mainboard overview

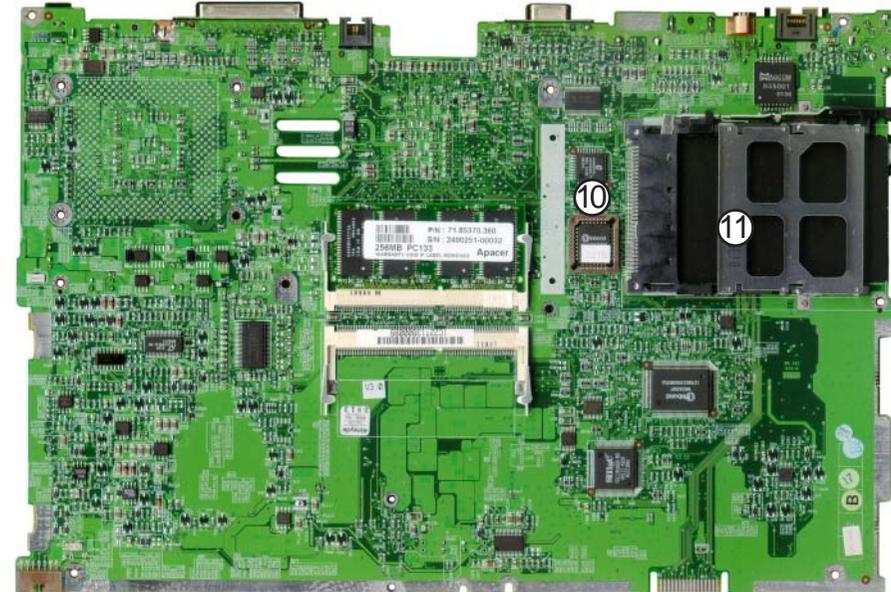
Key parts

- 1) CPU socket (no CPU installed)
- 2) Core logic
SiS630st
- 3) VR
- 4) ICS1893 Lan
PHY
- 5) 1394 PHY
- 6) Audio Codec
- 7) TI4410
(PCMCIA +
1394
Controller)
- 8) K/B Controller
M33867
- 9) CMOS battery
- 10) Flash BIOS
ROM
- 11) PCMCIA socket

Top view

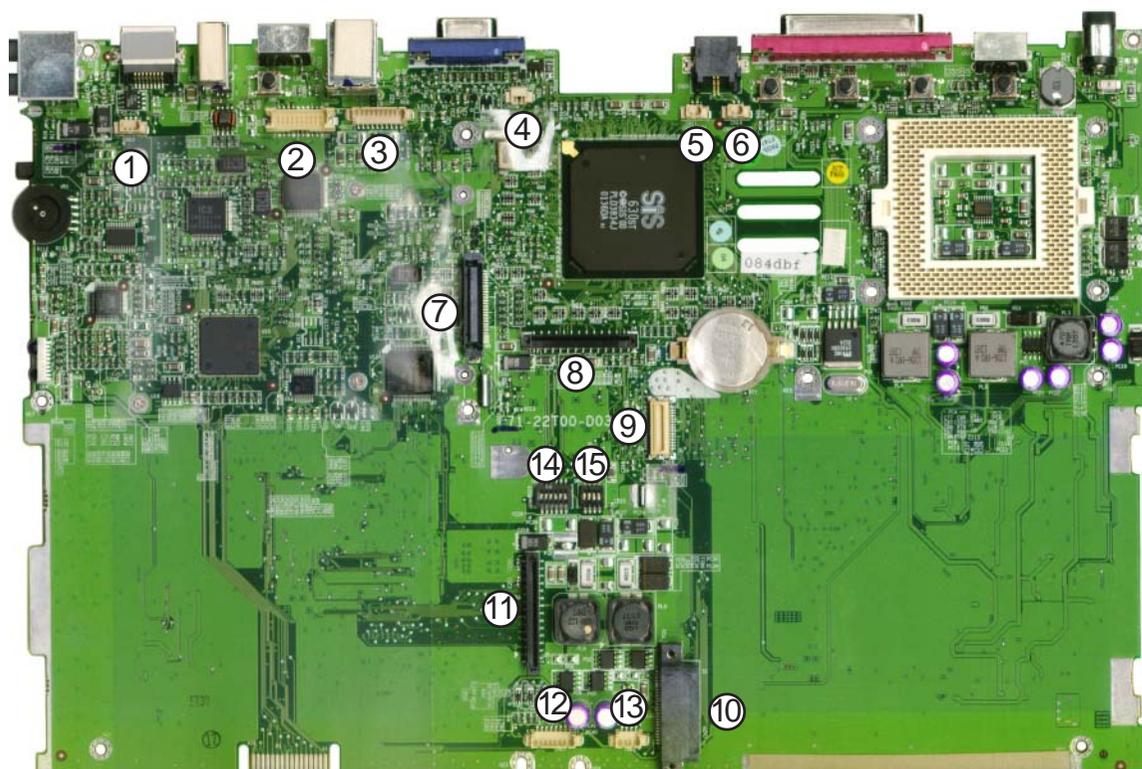


Bottom view



Cable connectors & switches

Top view



- | | | |
|--------------------------------|--|---|
| 1) Microphone connector (CN13) | 8) K/B connector (CN17) | 14) CPU and Memory frequency switch (SW6) |
| 2) Panel connector (CN15) | 9) MDC connector (CN18) | 15) Panel ID switch (SW7) |
| 3) Inverter connector (CN12) | 10) CD device connector (CN20) | |
| 4) Heat sink connector (CN10) | 11) FDD connector (CN19) | |
| 5) Fan connector (CN11) | 12) Indicative LED and touchpad connector (CN21) | |
| 6) MDC cable connector (CN14) | 13) Internal Speaker connector (CN22) | |
| 7) HDD connector (CN16) | | |

Notes:

Chapter 2: Disassembly

To make the disassembly process easier each section may have a box in the page margin. Information contained in the  boxes informs you what tools will be needed for a given procedure and the amount of screws involved. A  box lists the components that are important for that particular procedure. A  contains information that may be helpful to you. Examples are shown on the left.

All screw and nuts used in the assembly of the Notebook Computer are assigned a letter. If you encounter any problems reassembling the machine, refer to this table to make sure you are using the proper screw or nut.

Size chart for screws and hex nuts:

Letter	Size	Letter	Size
A	1.7 x 5 mm.	J	2.5 x 6 mm.
B	2 x 2 mm.	K	2.5 x 8 mm.
C	2 x 3 mm.	L	2.5 x 14 mm.
D	2 x 4 mm.	M	2.5 x 23 mm.
E	2 x 5 mm.	N	2.6 x 3.5 mm.
F	2 x 10 mm.	O	3 x 4 mm.
G	2.5 x 3 mm.	P	Heat sink screw
H	2.5 x 4 mm.	Q	Standoff hex nut
I	2.5 x 5 mm.	R	Hex stud (11 mm.)



This box lists the tools needed and the amount of screws used.



Note
Information in this box will give possible useful information.



This box lists the names of the relevant parts.



Note

Remember to wear an anti-static wrist strap and remove all power sources when working on the computer.

Disassembly steps

From the list below choose the component that you want to disassemble, then follow the steps listed and go to the appropriate page for detailed instruction.

Steps to remove the CD device assembly:

- Remove the battery p 2-5
- Remove the keyboard p 2-6
- Remove the heat sink p 2-9
- Remove the CD device assembly p 2-8

Steps to remove the CPU:

- Remove the battery p 2-5
- Remove the keyboard p 2-6
- Remove the heat sink p 2-9
- Remove the CPU p 2-10

Steps to remove the FDD assembly:

- Remove the battery p 2-5
- Remove the keyboard p 2-6
- Remove the HDD assembly p 2-7
- Separate the notebook base in two p 2-12
- Remove the FDD assembly from the mainboard p 2-15

Steps to remove the HDD assembly:

- Remove the battery p 2-5
- Remove the keyboard p 2-6
- Remove the HDD assembly p 2-7

Steps to remove the inverter board:

- Remove the battery p 2-5
- Remove the LCD panel frame p 2-18
- Remove the LCD panel from the LCD panel case p 2-19 (up to step 4)

Steps to remove the LCD panel:

- Remove the battery p 2-5
- Remove the LCD panel frame p 2-18
- Remove the LCD panel and bracket from the LCD panel case p 2-19
- Remove the LCD panel from the bracket p 2-21
- Remove only the LCD panel (for 14.1" LCD screens) p 2-22

Steps to remove the mainboard:

Remove the battery	p 2-5
Remove the keyboard	p 2-6
Remove the HDD assembly	p 2-7
Remove the CD device assembly	p 2-8
Remove the heat sink	p 2-9
Remove the CPU	p 2-10
Separate the notebook base in two	p 2-12
Remove the FDD assembly	p 2-15
Remove the CD device tray	p 2-15
Remove the fan	p 2-15
Remove the mainboard from the bottom case	p 2-16
Remove the mainboard from the mainboard tray	p 2-17

Steps to remove the modem module:

Remove the battery	p 2-5
Remove the keyboard	p 2-6
Remove the heat sink	p 2-9
Remove the modem module	p 2-24

Removal Procedures

Remove the battery

1. Remove the 2 screws on the battery cover (figures 2-1).
2. Disconnect the battery connector from the computer.
3. Slide the battery out of the computer (figures 2-2).

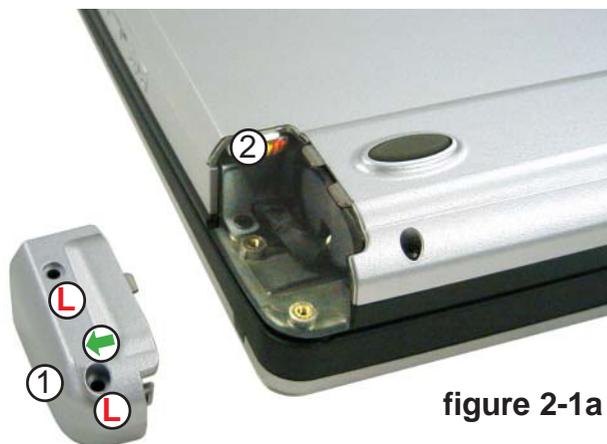


figure 2-1a

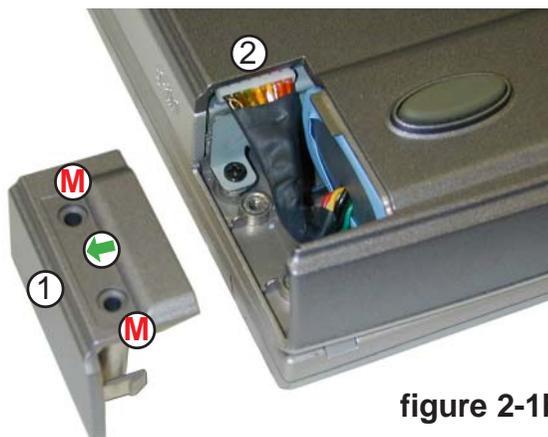


figure 2-1b



figure 2-2a

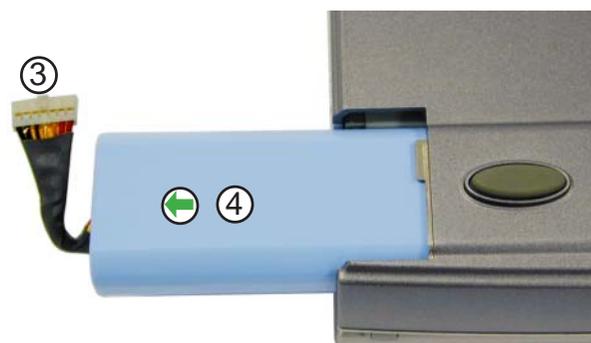


figure 2-2b



- 1 Philips screw-driver
- 2 screws



- 1) Battery Cover
- 2) Battery Connector plug
- 3) Battery Connector
- 4) Battery



- 1) keyboard latch
- 2) ribbon cable

Remove the keyboard

1. Press the 4 keyboard latches at the top of the keyboard (figure 2-3).
2. Lift the top of the keyboard up and out of the computer (figure 2-4).
3. Remove the keyboard ribbon cable.

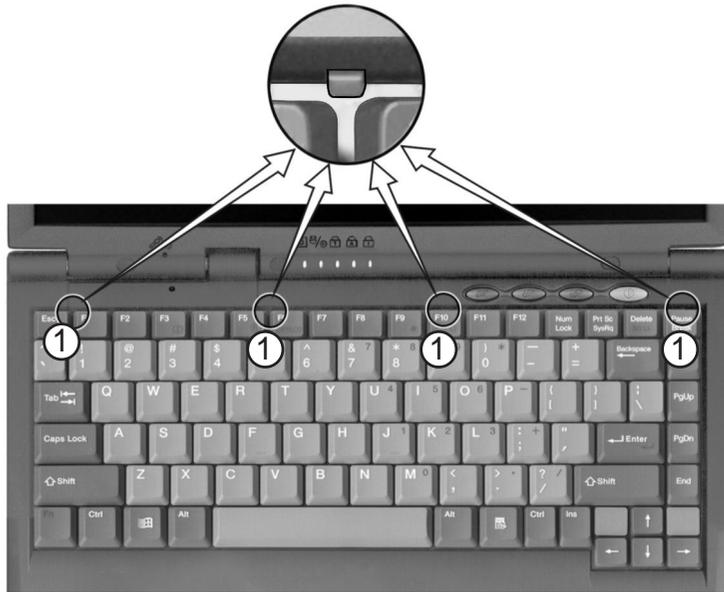


figure 2-3



figure 2-4

Remove the HDD assembly

1. Remove 3 screws (D) holding the HDD assembly in place (figure 2-5).
2. Lift the HDD assembly out of the case using the HDD tab (figure 2-6).



figure 2-5



figure 2-6



- 1 Philips screw-driver
- 3 screws



- 1) HDD assembly
- 2) HDD tab
- 3) HDD connector
- 4) HDD socket



Note

For information on removing the HDD from the HDD assembly go to Appendix A.



- 1 Philips screwdriver
- 1 screw



Note

For information on removing the CD device from the assembly go to Appendix A.

**

When reinstalling the CD device assembly you should do so with the heat sink removed. Reinstall the assembly, fasten the screw and then reinstall the heat sink. This will ensure that there are no interference problems later once you restart your computer.

Remove the CD device assembly

1. Remove screw (I) in figure 2-7.
2. Use a small screwdriver to gently push the CD device assembly out of the case (figure 2-7).
3. Remove the heat sink. ** (refer to page 2-9 for heat sink removal steps)



figure 2-7

Remove the heat sink

1. Unscrew the 4 screws (P) securing the heat sink to the mainboard (figure 2-8).
2. Lift up the heat sink part way until you see the heat sink cable. Disconnect the cable from the mainboard (figure 2-9).
3. Place the heat sink aside.



figure 2-8

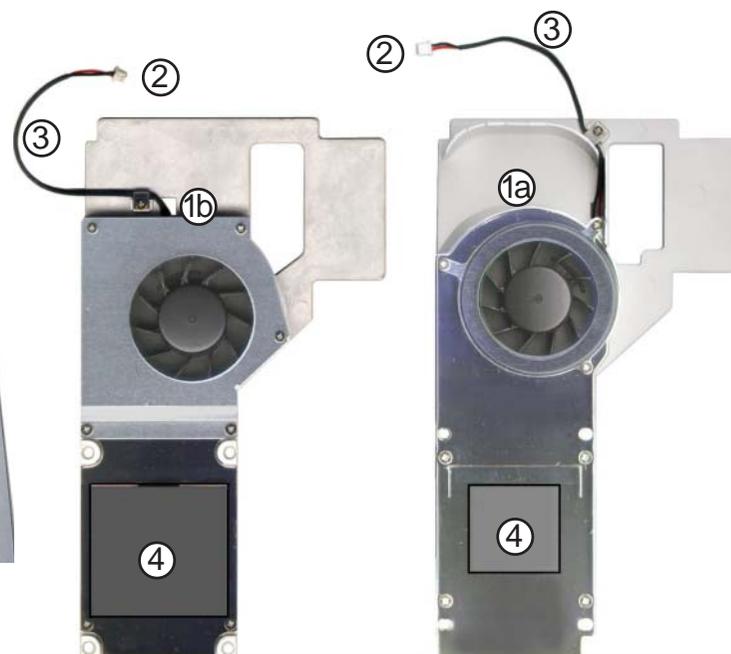


figure 2-9



- 1 Philips screw-driver
- 4 screws



- 1a) Heat sink
(for FC-PGA
Pentium III
and Celeron
CPUs)
Part no.: **31-
22C0N-10X**
- 1b) Heat sink
(for FC-PGA2
Pentium III-S,
Pentium III
and Celeron
CPUs)
Part no.: **31-
22T0N-10X**
- 2) Cable connector
- 3) Cable
- 4) Heat sink pad

Applying a heat sink pad

1. When the heat sink has been removed you will need to apply a new heat sink pad before reinstalling it. To do so simply peel off the old pad and adhere a new one to the same area.



- 1 Regular screwdriver
- 1 CPU tool



- 1a) FC-PGA2 CPU
- 1b) FC-PGA CPU
- 2) CPU lock
- 3) CPU Tool
- 4) Open Slot

**

The removal and reinstallation/replacement procedures for both FC-PGA and FC-PGA2 CPUs are the same. However, both types of CPUs go with different heat sinks (page 2-9).

Remove the CPU

1. Remove the CPU lock from the CLOSE slot of the CPU socket (figure 2-10a).

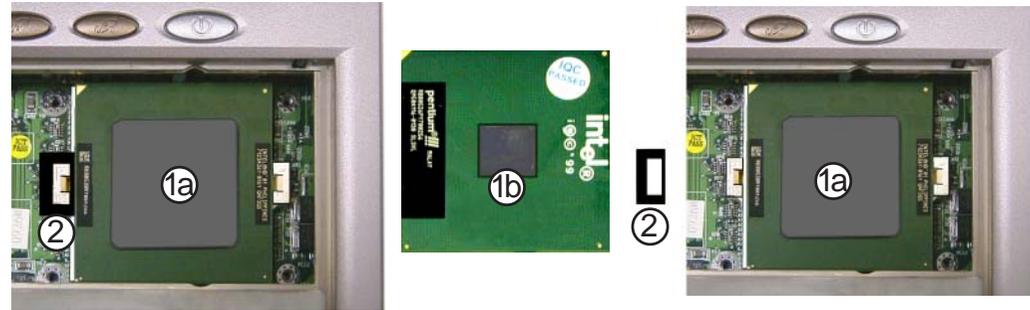


figure 2-10a

2. Place the CPU tool over the CPU (figure 2-10b).
3. Place a screwdriver in the OPEN slot of the CPU socket and move it to the left (figure 2-10b).
4. The CPU is now unlocked from the socket so remove the CPU tool and lift the CPU out of the socket.

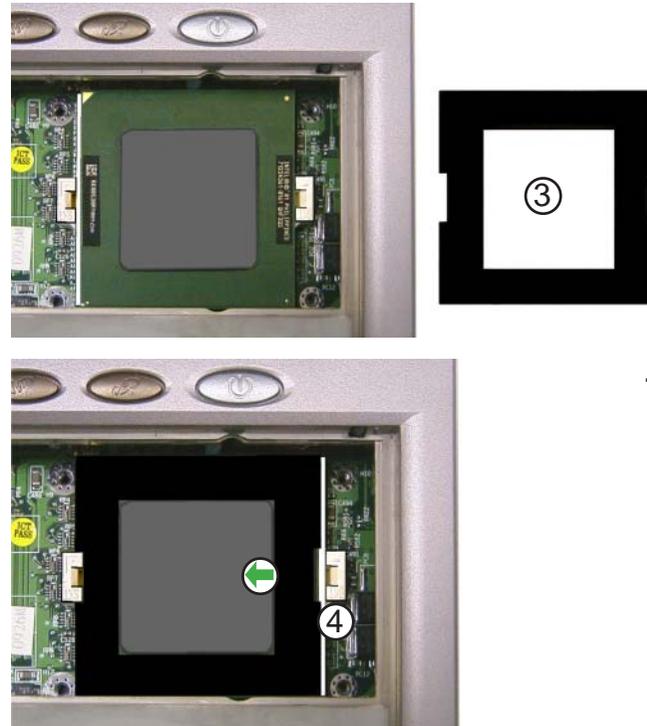


figure 2-10b

Reinstall the CPU

1. Place the CPU firmly in the socket.
2. Place the CPU tool over the CPU (figure 2-11a).
3. Place a screwdriver in the CLOSE slot of the CPU socket (figure 2-11a) and move it to the right.
4. The CPU is now secure in the socket.

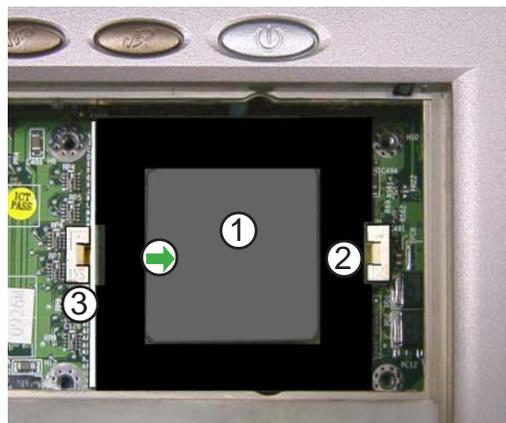


figure 2-11a



- 1 Regular screwdriver
- 1 CPU tool



- 1) CPU
- 2) CPU tool
- 3) CLOSE slot
- 4) CPU lock

5. Remove the CPU tool, place the CPU lock on the CLOSE slot of the socket (figure 2-11b).
6. Now that the CPU is properly installed, reinstall the heat sink.



figure 2-11b



1 Philips screw-driver

1 Hex socket wrench

Top: 1 Screw
1 Hex nut

Right Side:
1 Screw

Bottom:
7 Screws (2700T)
5 Screws (2200T)

Bottom Rear:
3 Screws
4 Hex nuts



- 1) microphone connector
- 2) LCD panel cable connector
- 3) Inverter cable connector
- 4) LCD panel cable
- 5) Inverter cable

Separate the notebook base in two

With the CPU and heat sink, keyboard, HDD and CD device removed:

1. Remove screw (I), the LCD panel cable and the inverter cable. When reinstalling make sure to place the LCD panel cable on top of the case and the inverter cable on the inside of the case just above the hex nut (figure 2-12).

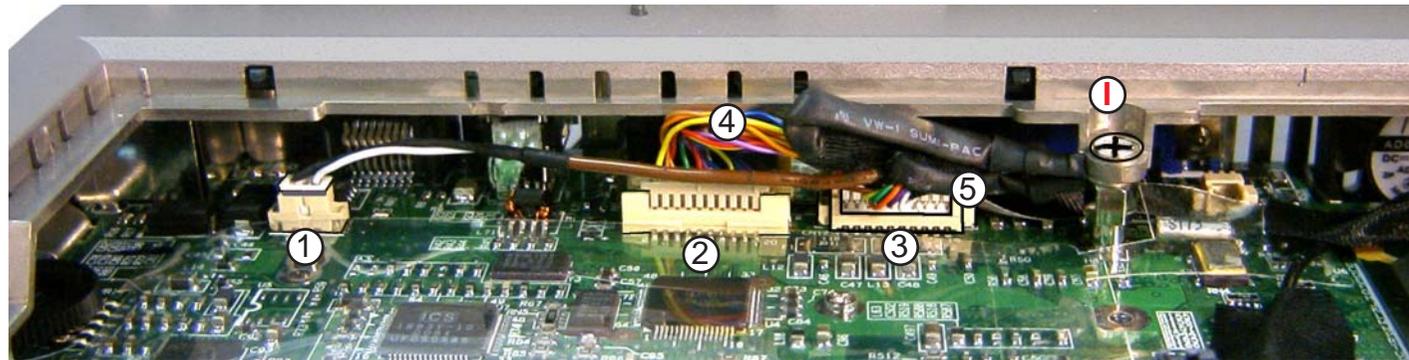


figure 2-12

2. Remove screw (I) (figure 2-13).



figure 2-13

3. Close the LCD panel and go to the right side of the computer and remove screw (I) (figure 2-14).



figure 2-14



- 1 Hex socket wrench
- 4 Hex nuts
- 3 Screws



- 1) parallel port
- 2) monitor port

- 4. Remove the hex nuts (R) on the parallel port (figure 2-15).
- 5. Remove the hex nuts (R) on the monitor out port (figure 2-15).
- 6. Remove screws (D) just above the ports (figure 2-15).



figure 2-15

- 7. Remove all screws as shown in (figures 2-16).

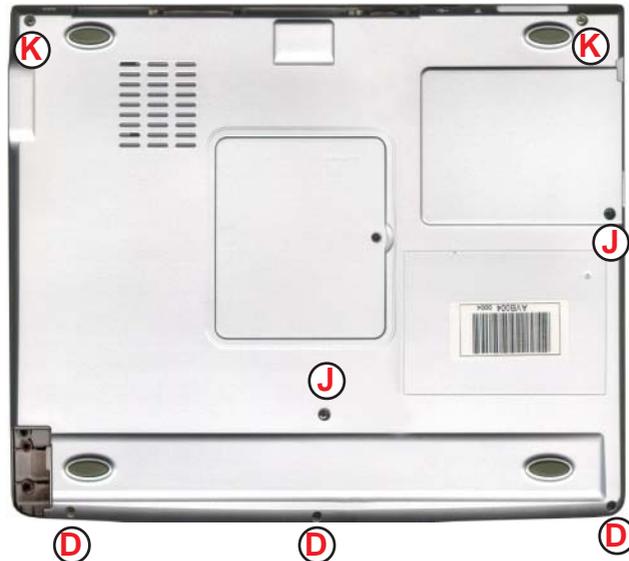


figure 2-16a



figure 2-16a

Remove the FDD assembly

1. Remove screw (I).
2. Remove the hex nut (Q).
3. Unplug the FDD cable and lift the FDD assembly off of the mainboard.

Remove the CD device tray

1. Remove screws (I).
2. Remove screw (F).
3. Unplug the CD device cable and slide the tray slightly to the right and lift it off of the mainboard.



1 Philips screwdriver

1 Hex socket wrench

FDD:

1 Stand-off Hex nut

1 Screw

CD device tray:
3 Screws



1) Fan

2) Fan cable

3) Fan cable connector

4) FDD assembly

5) CD device tray



Note

For information on removing the FDD from the FDD assembly go to Appendix A.

Remove the Fan

1. Unplug the fan cable from the mainboard.
2. Lift out the fan.

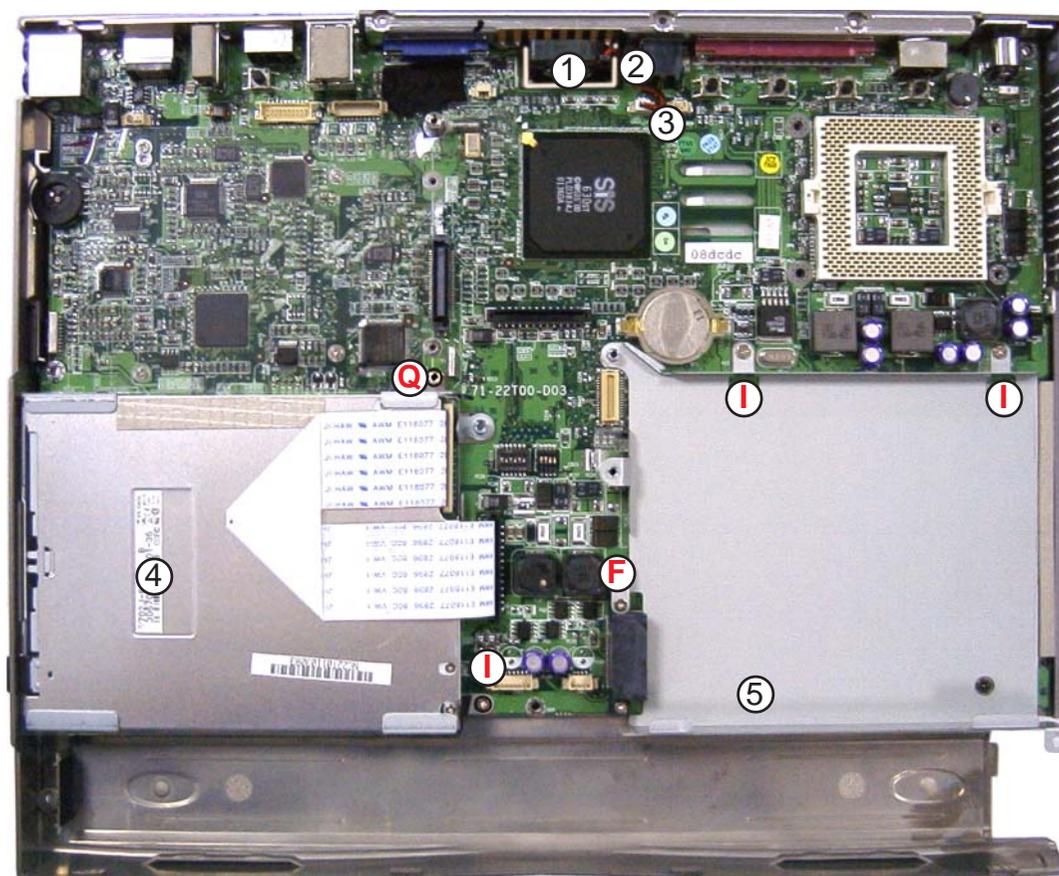


figure 2-17



- 1 Philips screw-driver
- 1 Hex socket wrench
- 2 Screws
- 1 Hex nut

Remove the mainboard and tray from the bottom case

1. Remove screws (F, H) and hex nut (Q).
2. Lift the mainboard up from the battery side and pull it out of the case.

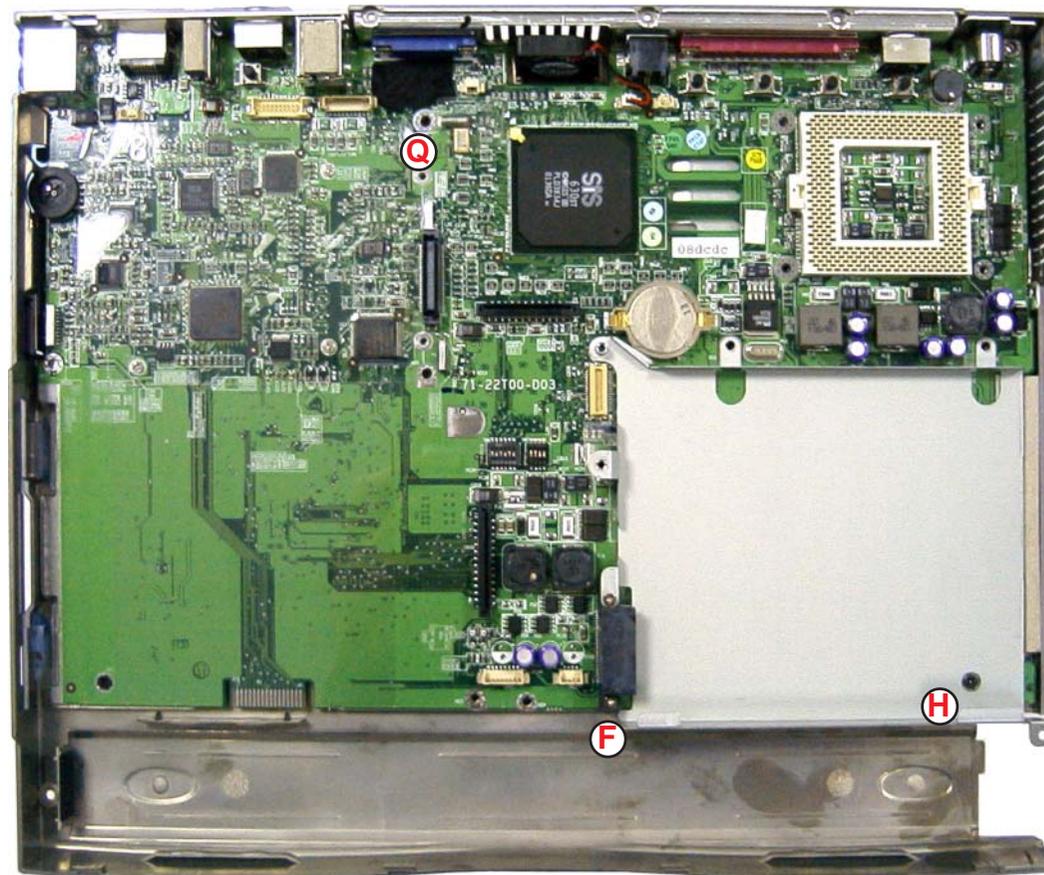


figure 2-18

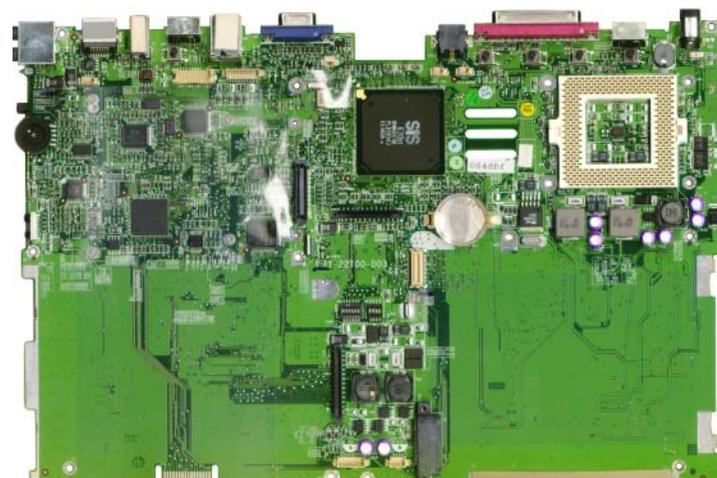
Remove the mainboard from the mainboard tray

1. Lift the mainboard out of the tray.



mainboard bottom view

figure 2-19



mainboard top view



- 1 Philips screwdriver
- 5 Screws



- 1) Top half of notebook computer
- 2) LCD panel in back
- 3) LCD panel frame

The LCD Panel

Remove the LCD panel frame

1. Remove the rubber stoppers in positions D and J (figure 2-20).
2. Remove the screws (D, J) (figure 2-20).
3. Run your finger around the middle of the frame and separate the frame from the back (figure 2-21).

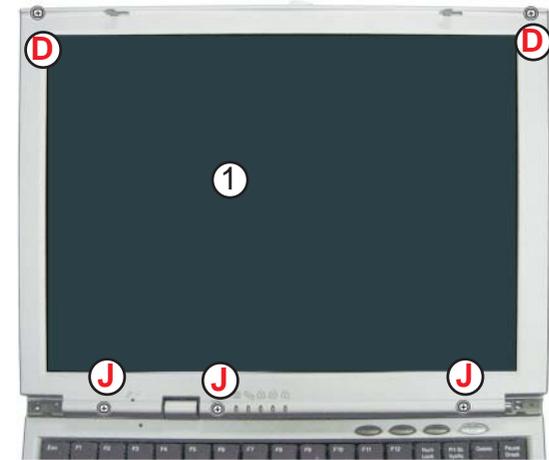


figure 2-20

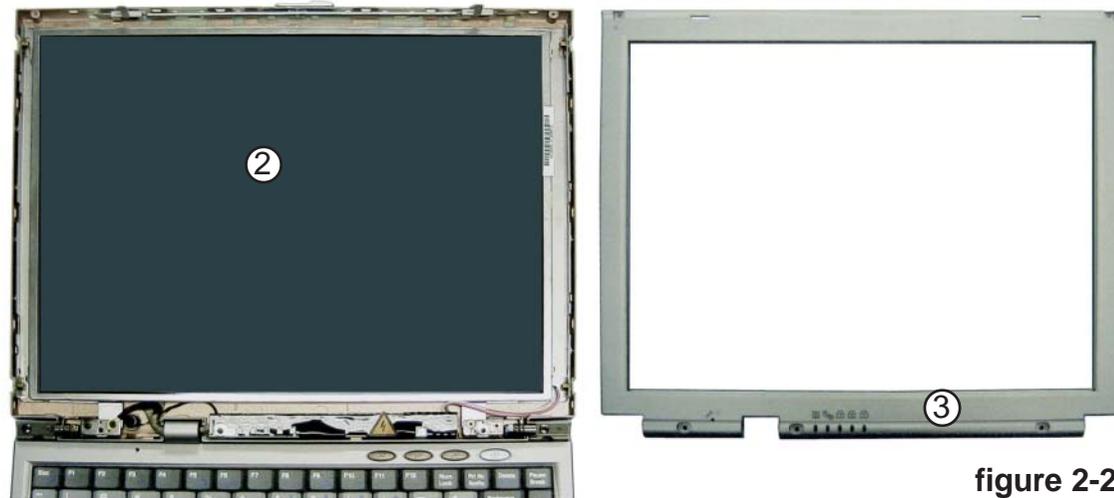


figure 2-21

Remove the LCD panel and bracket from the LCD panel case *

1. Remove the bracket screws (D) on the side of the LCD panel (figure 2-22).
2. Remove the 4 screws (I) at the bottom of the LCD screen (figure 2-22).
3. Remove screws (D) securing the inverter board (figure 2-22).

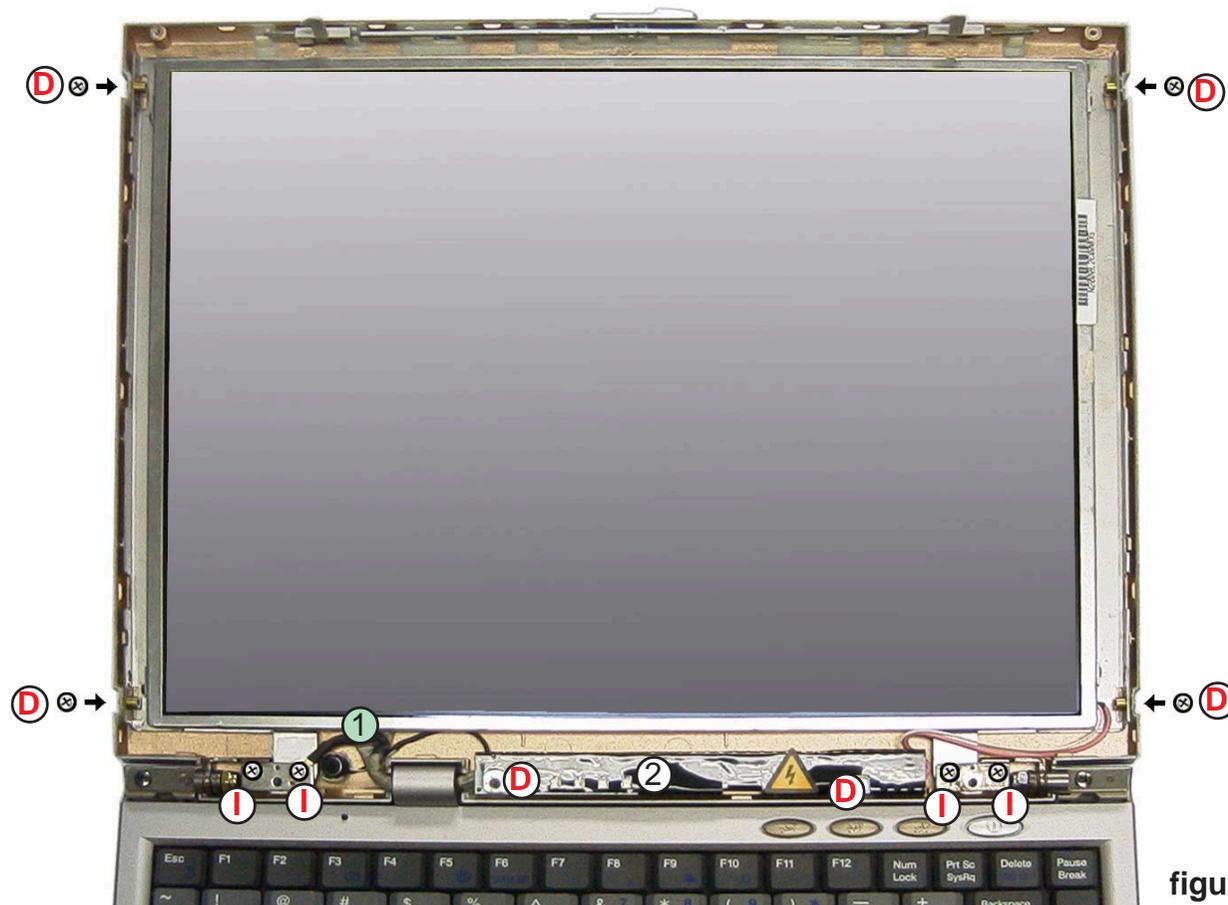


figure 2-22



1 Philips
screwdriver
10 Screws



- 1) Ground wire
(for reassem-
bly, please
note where
the ground
wire is at-
tached)
- 2) Inverter
Board

*

The following
models need to
have the LCD
bracket removed.
2700T - 13.3"
2200T - 13.3"



- 1) Inverter cable
- 2) LCD to inverter cable
- 3) LCD cable
- 4) LCD cable connector
- 5) LCD bracket

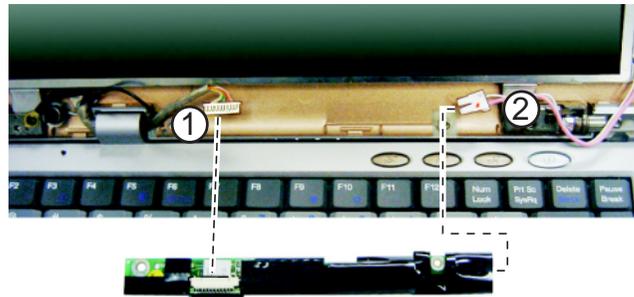


figure 2-23

4. Lift the inverter board and disconnect the inverter cable and the LCD to inverter cable (figure 2-23).
5. Lift the LCD screen and bracket out of the case and place it atop the keyboard (figure 2-24).
6. Disconnect the LCD cable.

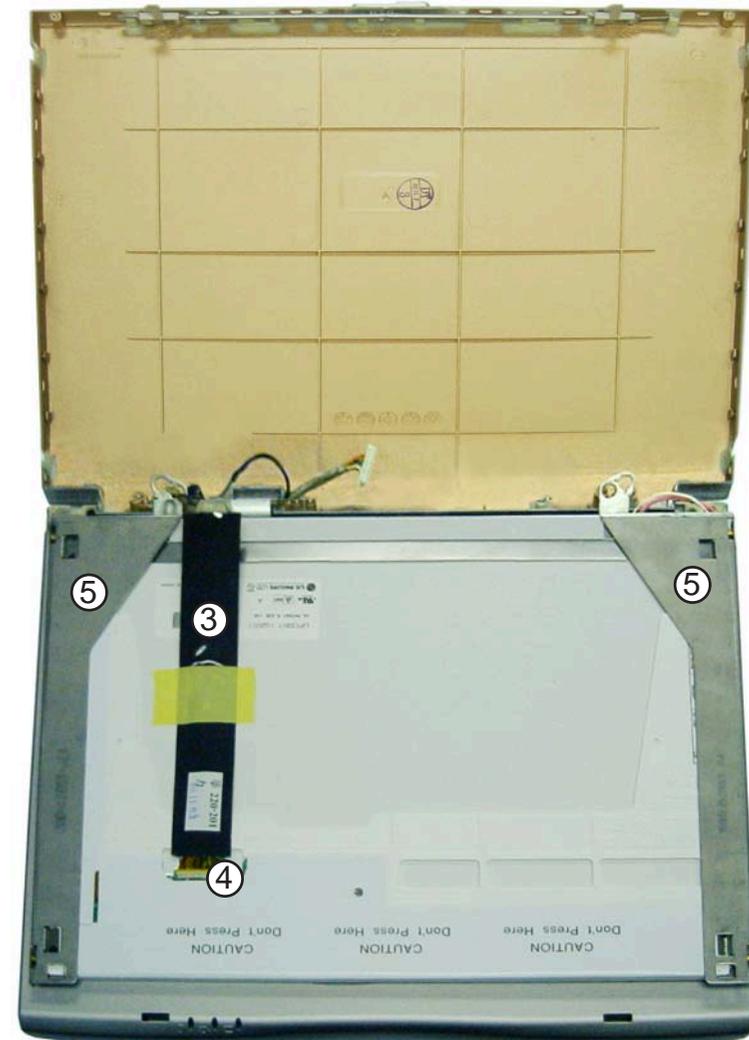


figure 2-24

Remove the LCD panel from the bracket

1. Gently lift out the panel.
2. Remove the screws (C) holding the LCD in the bracket (figure 2-25).

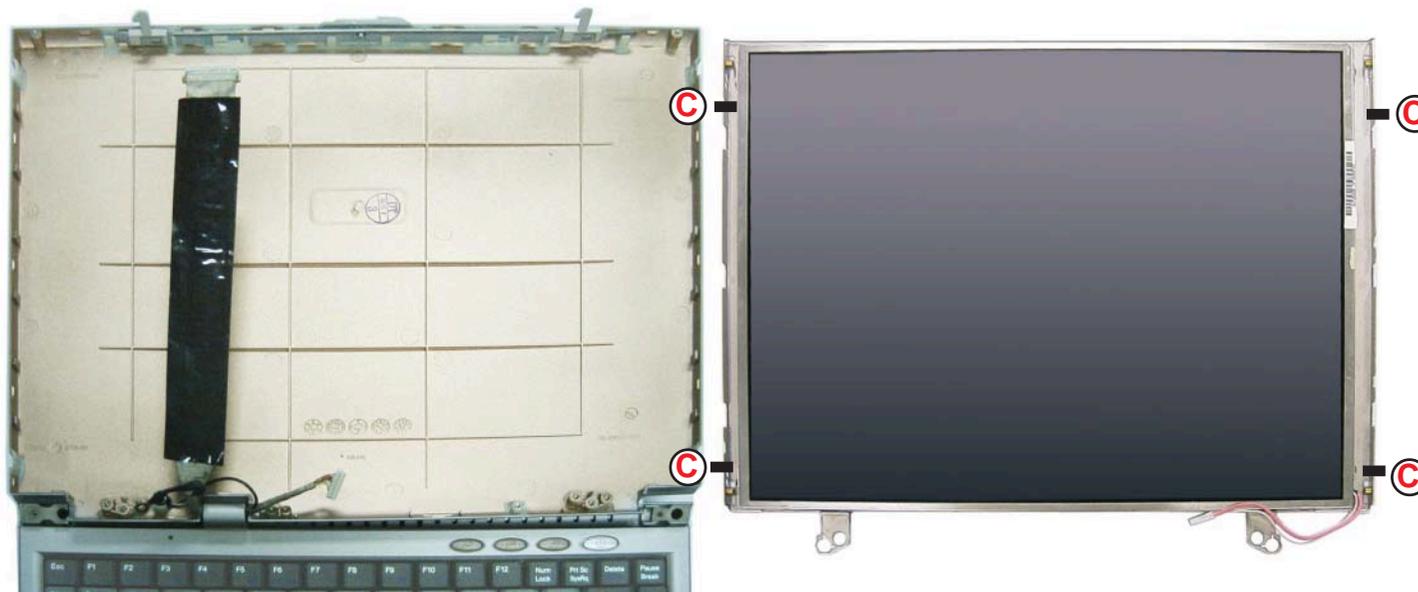


figure 2-25



- 1 Philips screwdriver (small)
- 4 Screws

Remove only the LCD panel (for 14.1" LCD screens)

Once the frame is removed from a 14.1" model, you will not need to remove the bracket. Instead:

- 1) Remove the four screws (figure 2-26)



- 1 Philips screwdriver
- 4 Screws



figure 2-26

- 2) Gently remove the LCD panel from the case and place it on top of the keyboard (figure 2-27).
- 3) Remove the tape and connectors and lift the LCD panel out.



- 1) LCD cable
- 2) LCD cable connector

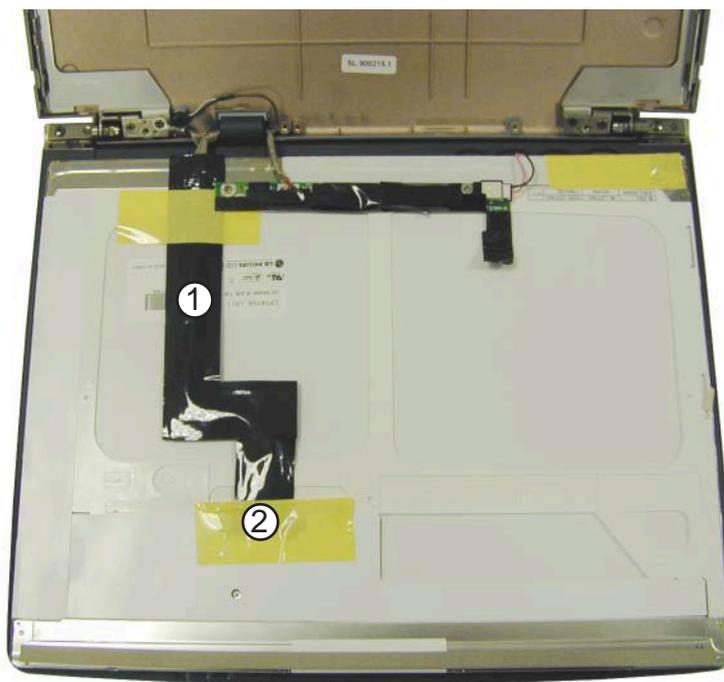


figure 2-27

Remove the modem module

With the keyboard and heat sink removed:

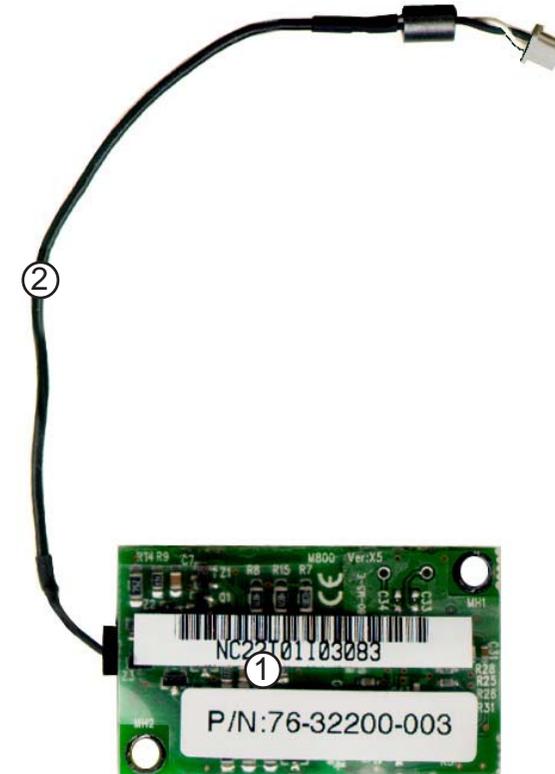
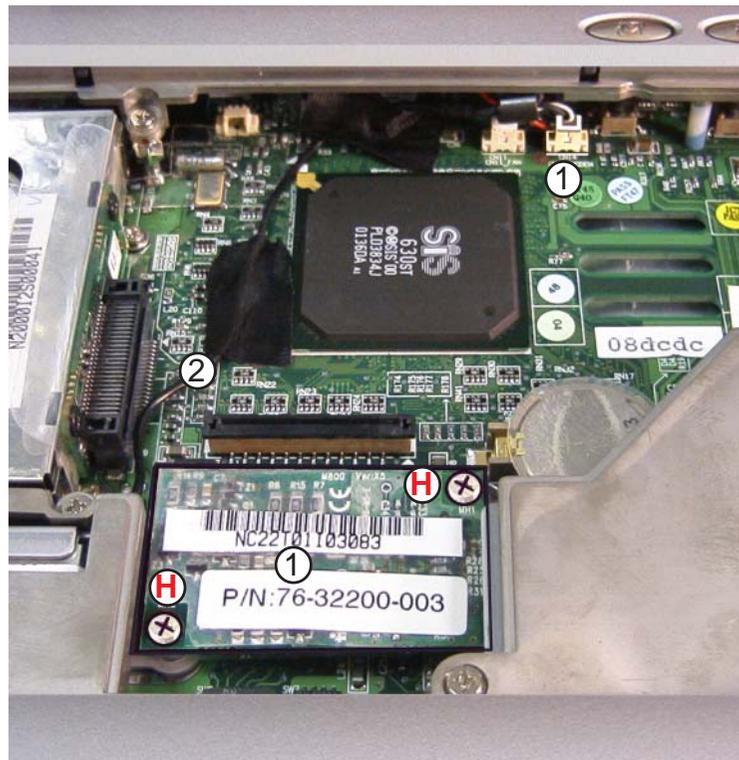


- 1 Philips screwdriver
- 2 Screws



- 1) modem module
- 2) modem cable

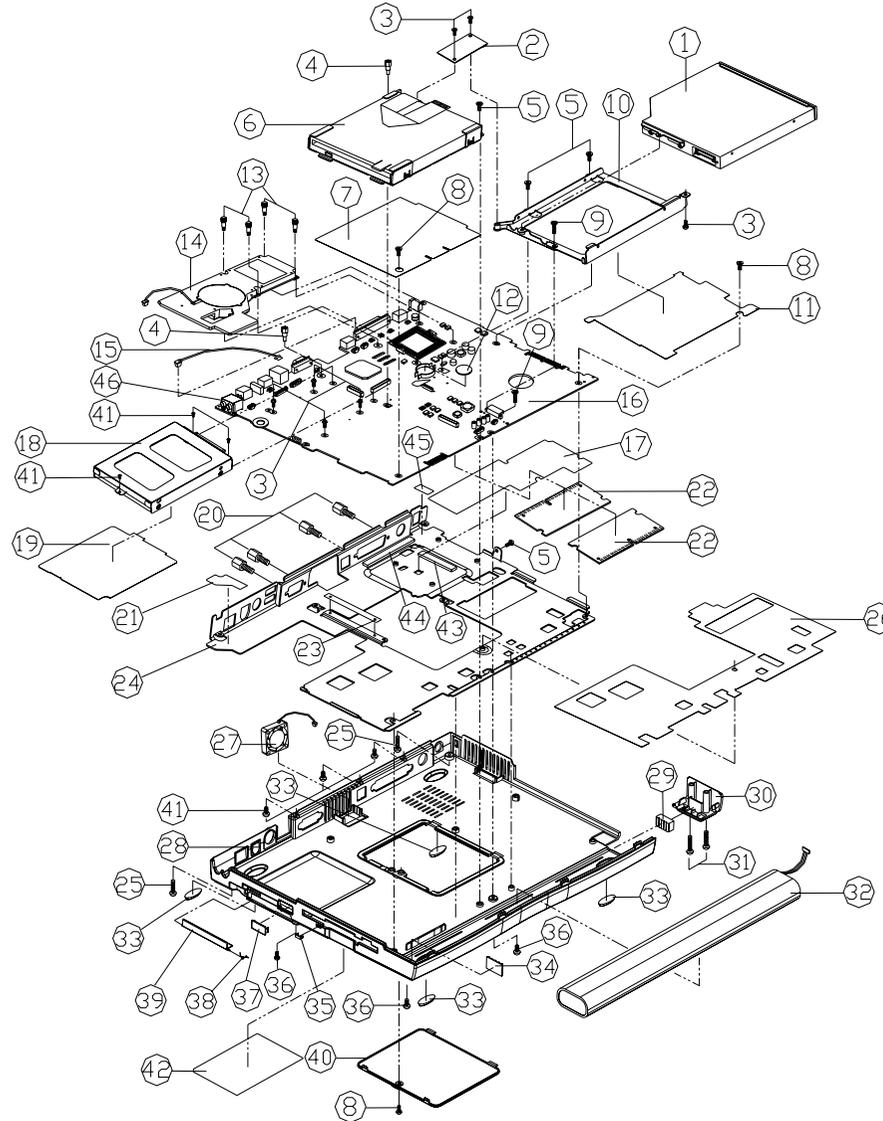
- 1) Remove screws (H) (figure 2-28)
- 2) Disconnect the modem cable from the mainboard.(the modem module with the cable is still connected to the mainboard via a board-to-board connector.)
- 3) Remove the modem module with the cable.



Appendix A: Mechanical Drawings and Parts Lists

2200T

Bottom half
assembly
and parts
list

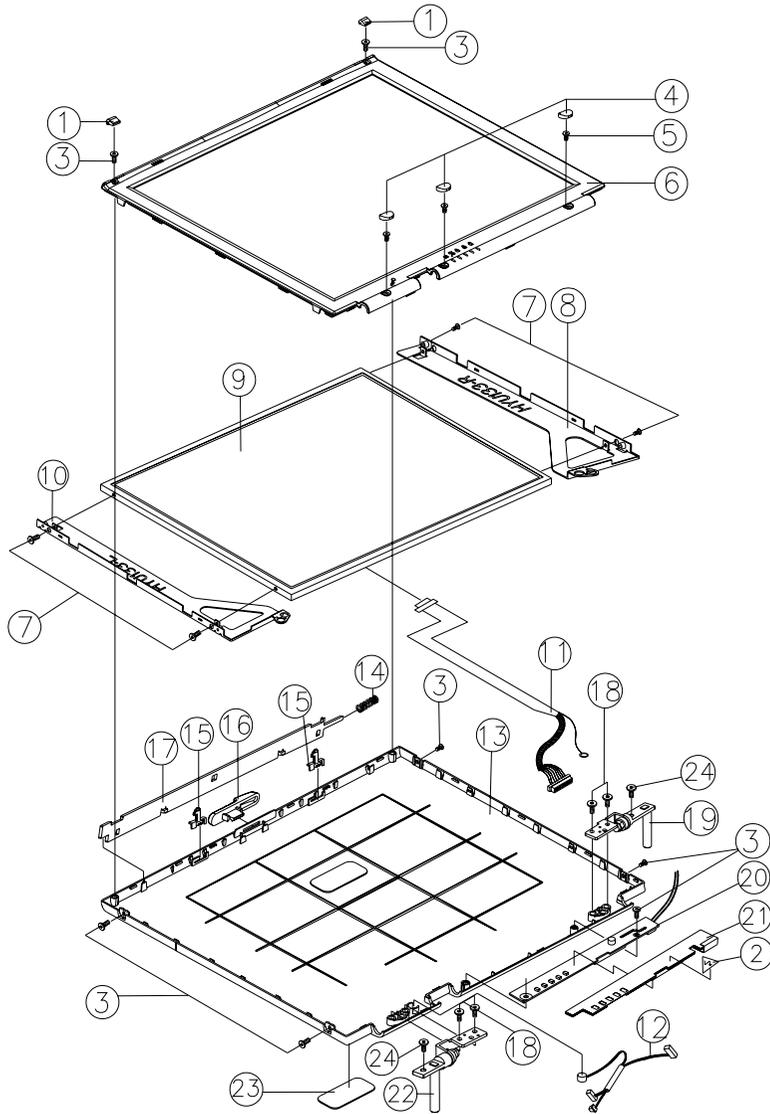


ITEM	PART NAME	PART NO	REMARK
1	CD-ROM ASS'Y DWG	79-2202Z-011	Reference Ass'y Dwg (99-22005-080)
1	DVD-ROM ASS'Y DWG	79-2202V-011	Reference Ass'y Dwg (99-22005-091)
2	SYSTEM ASS'Y W/LAN OR MODEM	79-22000-00A	
3	SCREW M2.5*4.0L K1 BNI ICT	35-B9125-4R0	
4	STANDOFF FOR M/B SUM22	34-22002-000	
5	SCREW M2.5*5L K1 NI ICT	35-B1125-5R0	
6	FDD ASS'Y DWG	79-2202J-011	Reference Ass'y Dwg (99-22005-070)
7	FDD MYLAR	40-22003-000	
8	SCREW M2.5*4L K1 NI ICT	35-B9125-4R0	
9	SCREW M2*10L I NI ICT	35-C1120-100-1	
10	CD-ROM/DVD BRACKET	33-2200Z-012	
11	CD-ROM MYLAR	40-2205Z-010	
12	MYLAR FOR BATTERY	40-8505M-010	
13	HEX STUD FOR CPU HEATSINK	34-2200N-010	
14	HEATSINK MODULE 2200C	31-22CON-100	
14	HEATSINK MODULE 2200T	31-22TON-100	
15	CABLE FOR MDC TO M/B	43-22011-002	
16	MAIN BOARD(W/ LAN OR MODEM)	77-22T00-D0X	
17	CPU MYLAR	40-22C0S-012	
18	HDD ASS'Y (W/O HDD)	79-2202I-011	Reference Ass'y Dwg (99-22005-060)
19	HDD MYLAR	40-22002-002	
20	HEX STUD SUM NI-PL 11mm	34-82001-000	
21	AUDIO MYLAR(L22*W15*H0.5)mm	40-22007-000	
22	64M SDRAM*16 PC-100	76-0017U-AB0	
22	64M SDRAM*16 PC-100	76-0017U-AD0	
23	MYLAR M/B TO I/O BRACKET	40-22S0S-020	
24	I/O BRACKET	33-22T0S-010	
25	SCREW M2.5*6L B BN ICT NY	35-49125-8R0	
26	M/B MYLAR	40-22010-002	
27	SECOND FAN	23-A221B-051	
28	BOTTOM CASE	39-22T13-01A	
29	BATTERY COVER RUBBER	47-22001-020	
30	BATTERY COVER	42-2207M-011	
31	SCREW M2.5*23L K1 NI ICT	35-B1125-230	
32	BATTERY FOR LI-ION 3600 PANA	87-2208S-42C	
33	RUBBER FOOT SILICONE 990H	47-22003-010	
34	BATTERY RUBBER	47-22001-010	
35	FDD LENS	39-22021-000	
36	SCREW M2.5*6L B BN ICT	35-49125-6R0	
37	IR LENS	39-22020-000	
38	CARD BUS DDR SPRING Ø0.2mm	38-22001-000	
39	DOOR FOR CARBUS GARAGE	42-2207P-020	
40	RAM COVER	42-22073-010	
41	SCREW M2*4L KI NI ICT	35-B1120-4R0-A	
42	FCC LABEL	45-22C03-030	
43	GASKET (60*9*0.5) FOR 2XC/S HDD CAS	47-00190-601	
44	GASKET FOR I/O BRACKET (7X38X2)	47-00190-380	
45	MYLAR (20*13*0.3) PC/BK) FOR 2XC/S D	40-00120-150	
46	AUDIO JACK SHIELDING	33-2200S-020	

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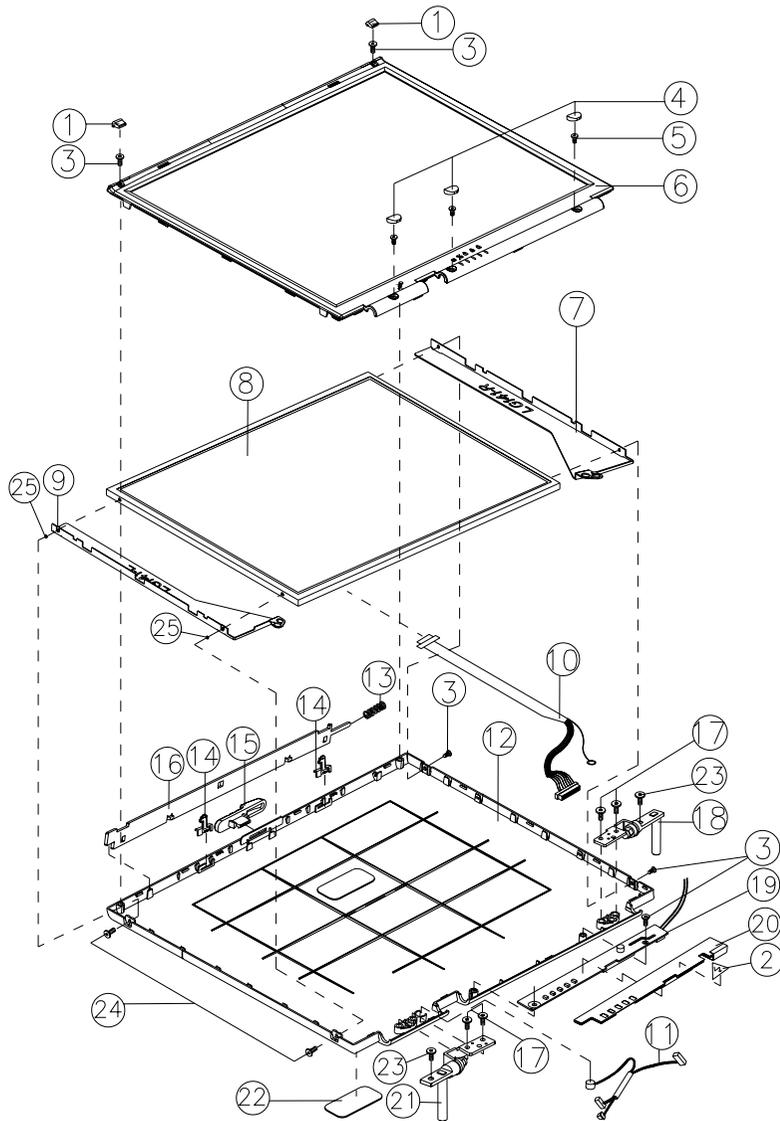
LCD panel (13.3") assembly and parts list

2200T



ITEM	PART NAME	PART NO	REMARK
1	DISPLAY RUBBER PAD(TOP)	47-22021-010	
2	ELECTRIC SHOCK CAUTION 82H	45-82004-000	
3	SCREW M2*4L KI NI ICT	35-B1120-4RB	
4	DISPLAY RUBBER RAD(BOTTOM)	47-22021-020	
5	SCREW M2.5*0.45P*6L KI NI ICT	35-B1125-6R0	
6	LCD FRONT COVER & LENS MODULE FOR 13.3"	39-22001-011	
7	SCREW M2*3L KI BK ICT	35-B4120-3R0	
8	LCD BRACKET (R) FOR 13.3"	33-22010-000	
9	LCD 13.3" T UNIPAC UB133X01 5.5M	50-G2255-U01	
9	LCD 13.3" T HYUNDAI HT13X14 13.3"XGA	50-G2257-H01	
10	LCD BRACKET (L) FOR 13.3"	33-22011-000	
11	WIRE CABLE FOR UNIPAC UB133X01	43-22001-200	
11	WIRE CABLE FOR HYU. HT13X14	43-22001-210	
12	WIRE CABLE FOR INVERTER	43-22006-002	
13	LCD BACK COVER 13.3/14.1"	39-22001-22B	
14	LCD SPRING FOR HOOK	38-26004-003	
15	LCD HOOK	42-220A1-010	
16	LCD HOOK KNOB	42-220A1-022	
17	LCD LATCH BRACKET	33-22001-010	
18	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
19	HINGE (R) ASS'Y	79-2200Y-011	
20	INVERTER BOARD SMT ASS'Y V2.1 2200	77-22001-002	
21	INVERTER MYLAR	40-22004-000	
22	HINGE (L) ASS'Y	79-2200Y-021	
23	DISPLAY BACK COVER LABEL	45-22001-010	
24	SCREW M2.5*8L B BN ICT NY	35-49125-8R0	

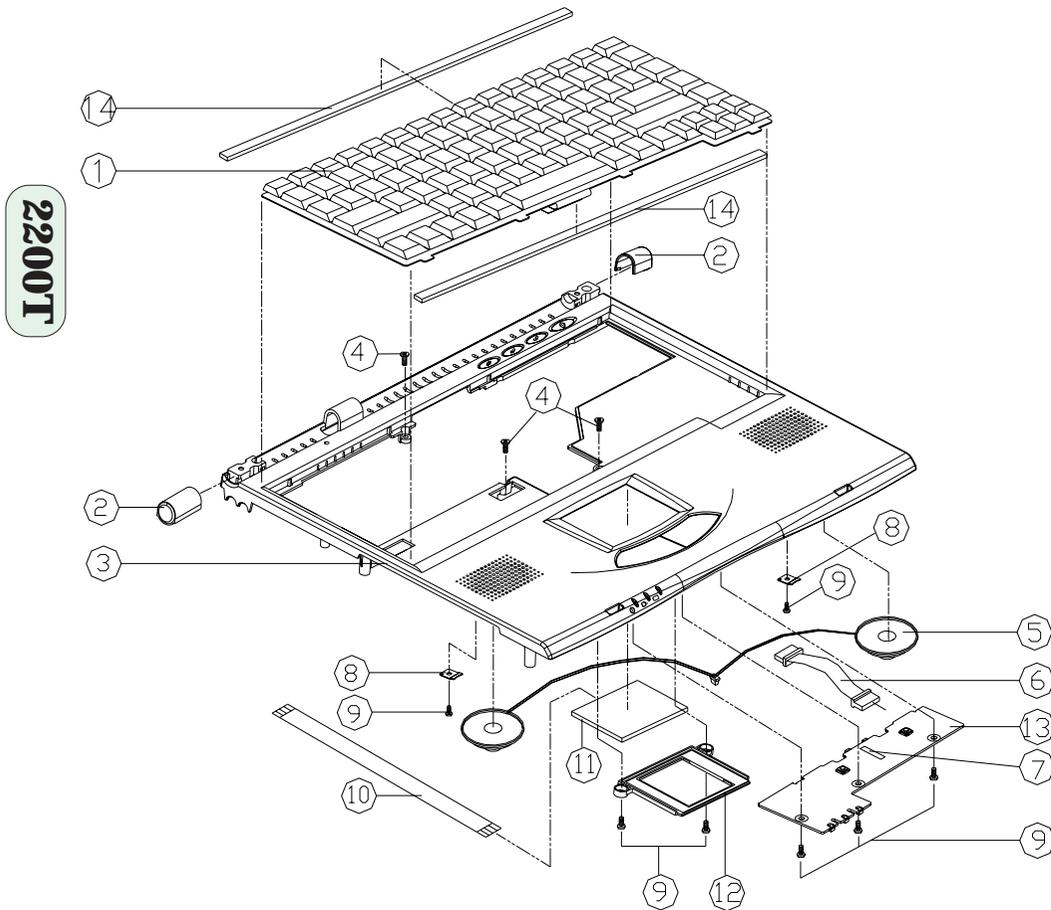
LCD panel (14.1") assembly and parts list



ITEM	PART NAME	PART NO	REMARK
1	DISPLAY RUBBER PAD(TOP)	47-22021-010	
2	ELECTRIC SHOCK CAUTION 82H	45-82004-000	
3	SCREW M2*4L KI NI ICT	35-B1120-4RB	
4	DISPLAY RUBBER RAD(BOTTOM)	47-22021-020	
5	SCREW M2.5*0.45P*6L KI NI ICT	35-B1125-6R0	
6	LCD FRONT COVER & LENS MODULE FOR 14.1"	39-22001-211	
7	LCD BRACKET (R) FOR LG/UNIPAC.14.1"	33-22008-001	
8	LCD T LG LP141XA-A1NA 14.1" XGA	50-J6787-66L	
8	LCD T UNIPAC UB141X01 14.1" 6.0mm	50-J2260-U02	
9	LCD BRACKET (L) FOR LG/UNIPAC.14.1"	33-22009-000	
10	WIRE CABLE FOR LG/UNIPAC	43-22001-300	
11	WIRE CABLE FOR INVERTER	43-22006-002	
12	LCD BACK COVER 13.3/14.1"	39-22001-22B	
13	LCD SPRING	38-26004-003	
14	LCD HOOK	42-220A1-010	
15	LCD HOOK KNOB	42-220A1-022	
16	LCD LATCH BRACKET	33-22001-010	
17	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
18	HINGE (R) ASS'Y	79-2200Y-011	
19	INVERTER BOARD SMT ASS'Y V2.1 2200	77-22001-002	
20	INVERTER MYLAR	40-22004-000	
21	HINGE (L) ASS'Y	79-2200Y-021	
22	DISPLAY BACK COVER LABEL	45-22001-010	
23	SCREW M2.5*8L B BN ICT NY	35-49125-8R0	
24	SCREW M2*5L I BZ ICT	35-C6120-5R0	
25	WASHER FOR FDD CASE	40-11A5J-020	

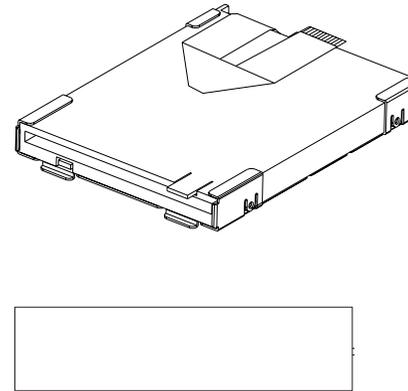
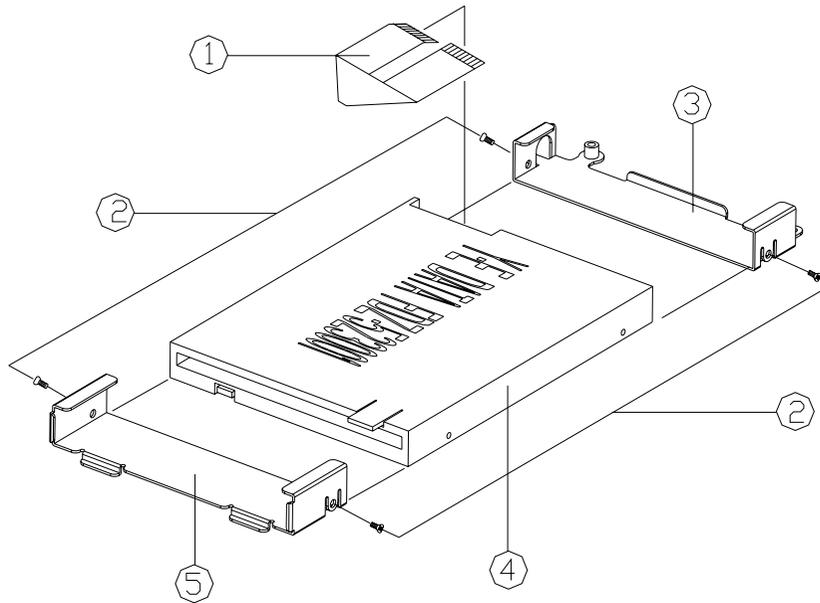
2200T

Keyboard and Touchpad assembly and parts list



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD	80-22008-7G0	
2	HINGE COVER	42-2207Y-010	
3	TOP CASE ASS'Y 2200	39-22002-012	
4	SCREW M2.5*5L K1 NI ICT	35-B1125-5R0	
5	SPK. WITH CABLE 28mm	23-52810-201	
6	WIRE CABLE FOR CLICK BOARD	43-22008-001	
7	MYLAR FOR T/P BOARD 260	40-26009-000	
8	SPEAKER BRACKET	33-22017-000	
9	SCREW M2.5*3L K1 NI ICT	35-B1125-3RA	
10	FFC CABLE 8P 85mm FOR GLIDE POINT	27-9350C-850	
11	TOUCHPAD ALPS KGDDHQ943A	49-98000-030	
12	TOUCH PAD HOLDER MODULE	79-2200M-0A0	
13	CLICK BOARD SMT ASS'Y V2.0 2200	77-22002-002	
14	導電布 FOR KEYBOARD	47-22S97-010	

FDD assembly and parts list

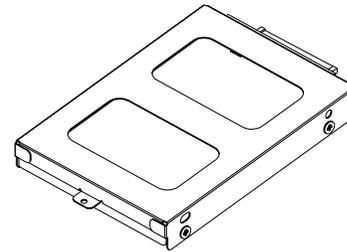
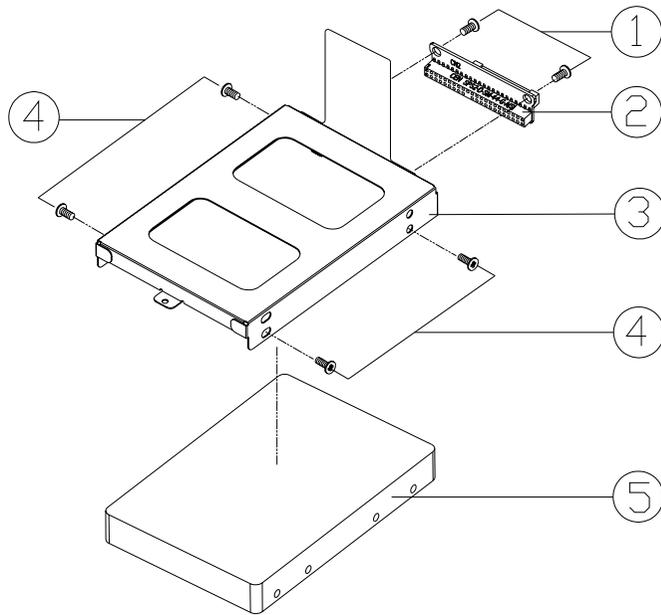


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ITEM	PART NAME	PART NO	REMARK
1	FFC CABEL FOR FDD	43-22009-001	
2	SCREW M2.6*3.5L F NI ICT	35-21126-350	
3	FDD BRACKET 	33-22004-000	
4	3.5" FDD 1.44MB 12.7mm	85-11700-Y01	YD-702J-6637J
5	FDD BRACKET <F>	33-22003-000	

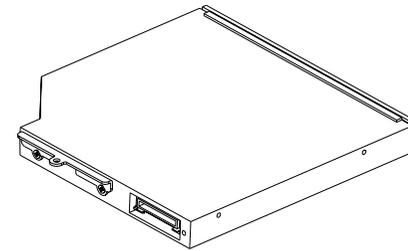
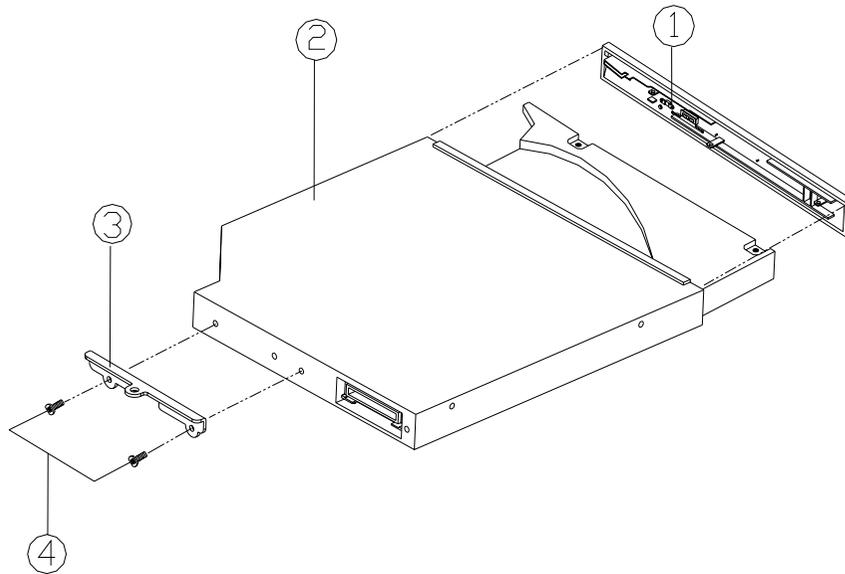
HDD assembly and parts list

2200T



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*2L KI ICT NY	35-B6120-2RA	
2	HDD CONVERTER BOARD SMT ASS'Y	77-22004-D03	
3	HDD HOLDER AND MYLAR MODULE	79-2200N-0A1	
4	SCREW M3*4L KI NI ICT	35-B1130-4RB	
5	2.5" HDD MHK2060AT 6GB 9.5mm	85-01860-F00	FUJITSU
5	2.5" HDD MK6014MAP 6GB 9.5mm	85-01860-T00	TOSHIBA

CD-ROM assembly and parts list

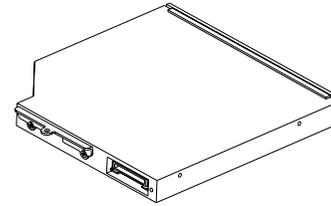
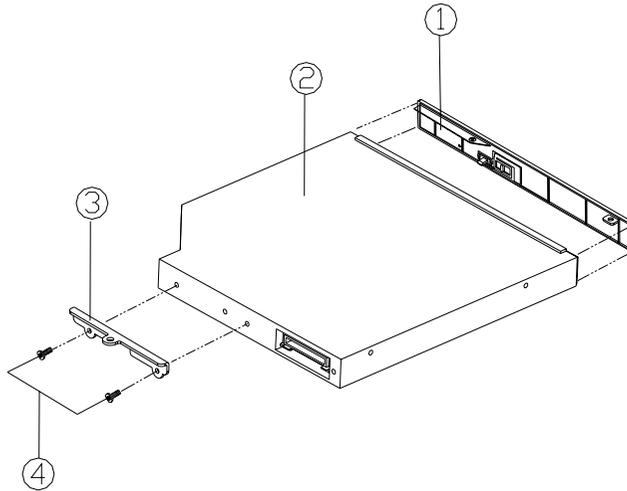


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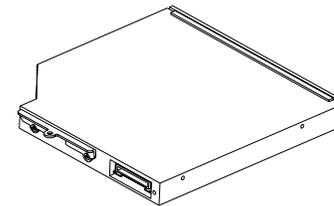
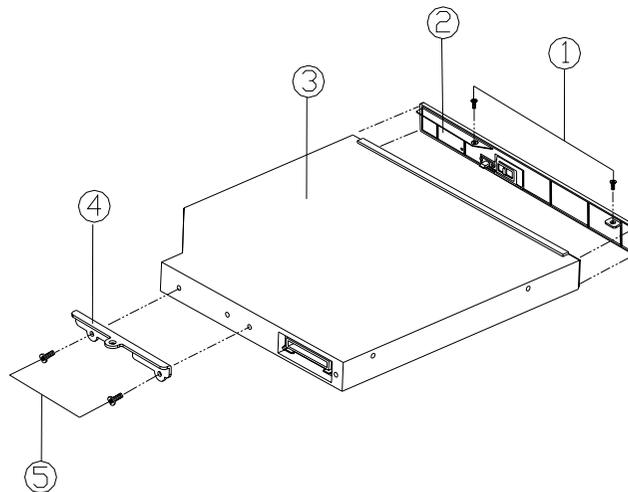
ITEM	PART NAME	PART NO	REMARK
1	CD-ROM BEZEL MODULE	42-22C7Z-000	TOSHIBA
2	CD-ROM 5 1/4" 24X 12.5mm	85-605DX-T03	XM-7002B
3	CD-ROM DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L K1 NI ICT	35-B1120-3RB	

DVD-ROM assembly and parts list

2200T

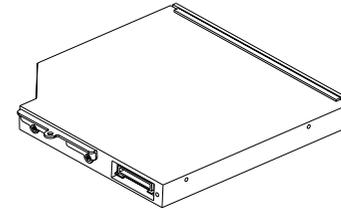
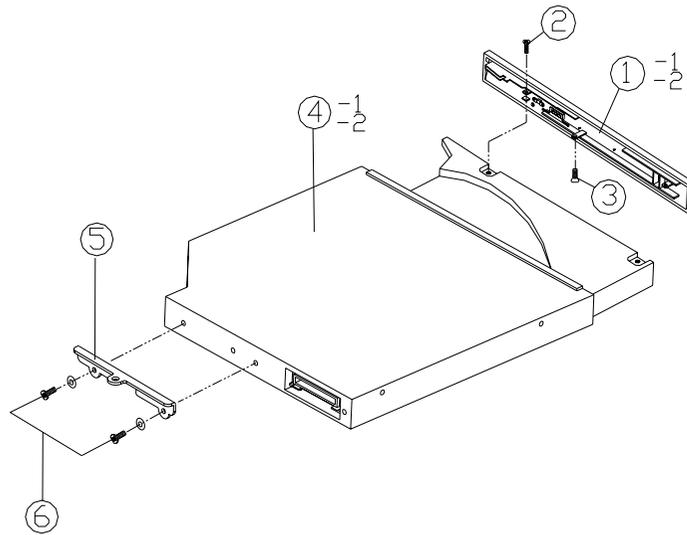


ITEM	PART NAME	PART NO	REMARK
1	DVD BEZEL MODULE	42-22C7V-003	TOSHIBA
2	DVD 5 1/4" 8X 12.7mm	85-7078X-T01	TOSHIBASD-C2402
3	CD-ROM/DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L K1 NI ICT NY	35-B1120-3RB	

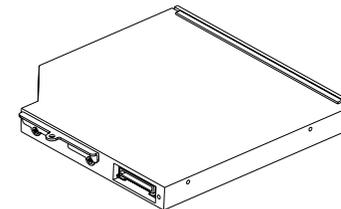
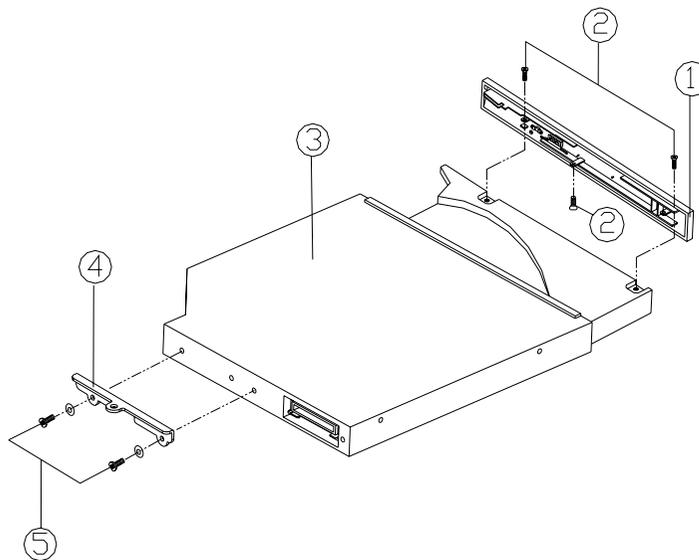


ITEM	PART NAME	PART NO	REMARK
1	SCREW M1.7*0.64*3.8L B BZ ICT	35-46117-3R8	
2	DVD-ROM BEZEL MODULE	42-22C7V-100	QSI
3	DVD 5 1/4" 8X 12.7mm	85-7078X-C01	QSIKSDR-081
4	CD-ROM/DVD FIXED BRACKET	33-22002-000	
5	SCREW M2*3L K1 NI ICT NY	35-B1120-3RB	

CD-RW assembly and parts list



ITEM	PART NAME	PART NO	REMARK
1-1	CD-RW BEZEL MODULE(UJDA320AC-A)	42-22S7W-200	KME
1-2	CD-RW BEZEL MODULE(UJDA310L 4X)	42-22S7W-100	KME
2	SCREW M1.7*3.5L K BZ TAP	35-86717-3R5	
3	SCREW M1.7*2.5L K BZ AEFT	35-86517-2R5	
4-1	CD/RW 5 1/4" 20/4X 12.7mm	85-8074X-K03	UJDA310L-ACI
4-2	CD/RW 5 1/4" 20/4X 12.7mm	85-8074X-K02	UJDA320AC-A
5	CD-ROM/DVD FIXED BRACKET	33-22002-000	
6	SCREW M2*3L KI NI ICT NY	35-B1120-3RB	

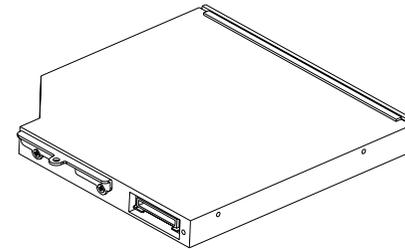
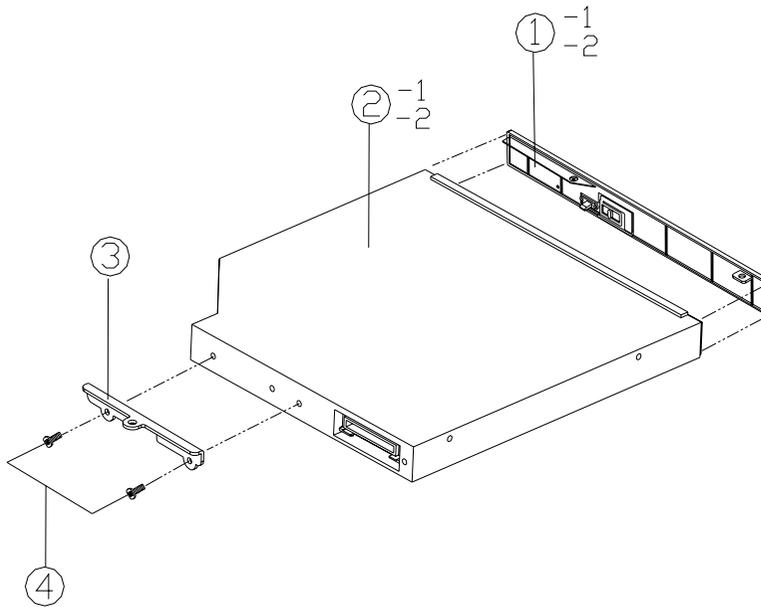


ITEM	PART NAME	PART NO	REMARK
1	CD-RW BEZEL MODULE(UJDA320AC-A)	42-22S7W-200	KME
2	SCREW M1.7*3.5L K BZ TAP	35-86717-3R5	
3	CD/RW 5 1/4" 8X 12.7mm	85-8078X-K00	UJDA330CL-Z
4	CD-ROM/DVD FIXED BRACKET	33-22002-000	
5	SCREW M2*3L KI NI ICT NY	35-B1120-3RB	

2200T

DVD-ROM+CD-RW combo assembly and parts list

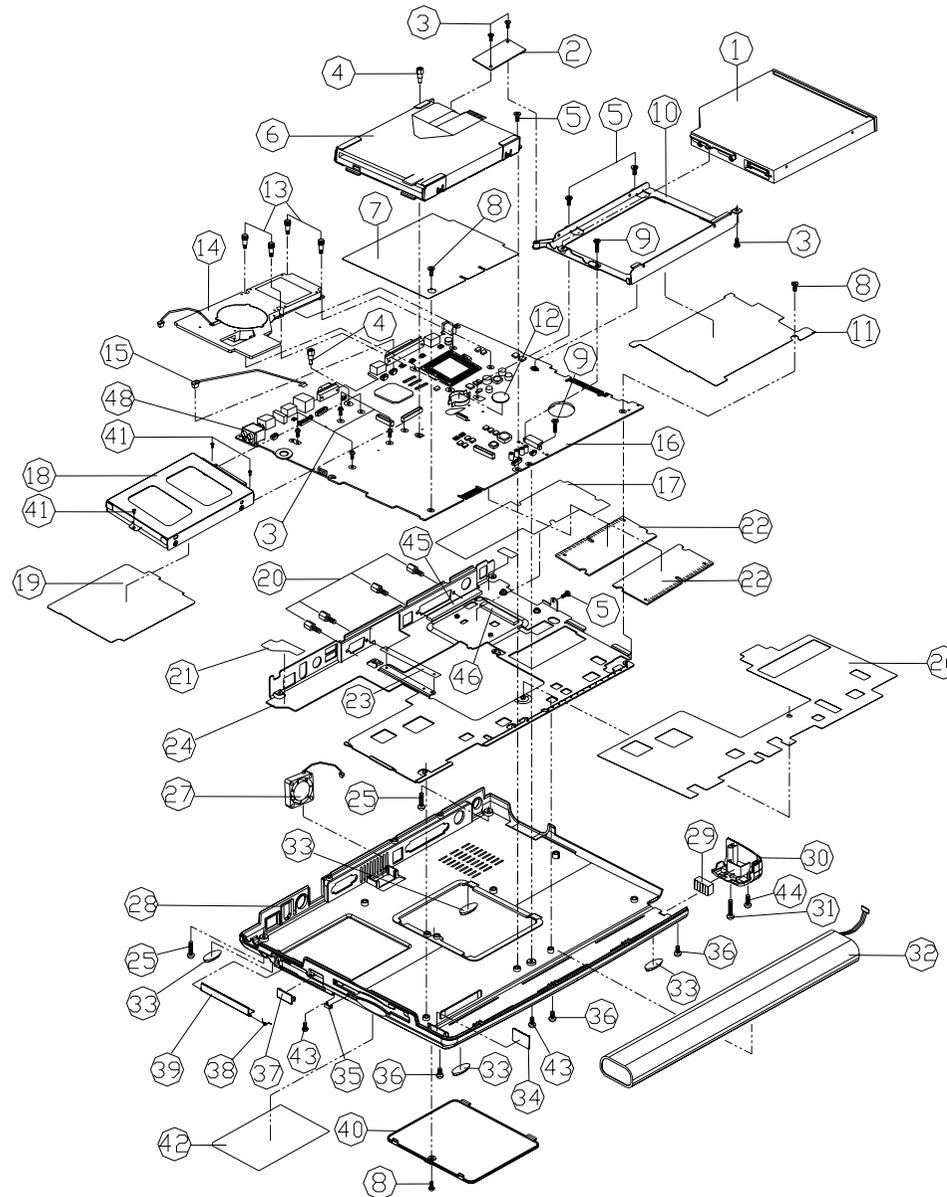
2200T



ITEM	PART NAME	PART NO	REMARK
1-1	COMBO BEZEL MODULE	42-22C7X-101	TOSHIBA
1-2	COMBO BEZEL MODULE	42-22C7X-200	KME
2-1	CD-RW/DVD 6X 12.7mm SD-R2002	85-9076X-T00	TOSHIBA
2-2	CD-RW/DVD S 1/4"8X 12.7mm UJDA710	85-9078X-K00	KME
3	CD-ROM/DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L KI NI ICT NY	35-B1120-3RB	

2700T

Bottom half assembly and parts list

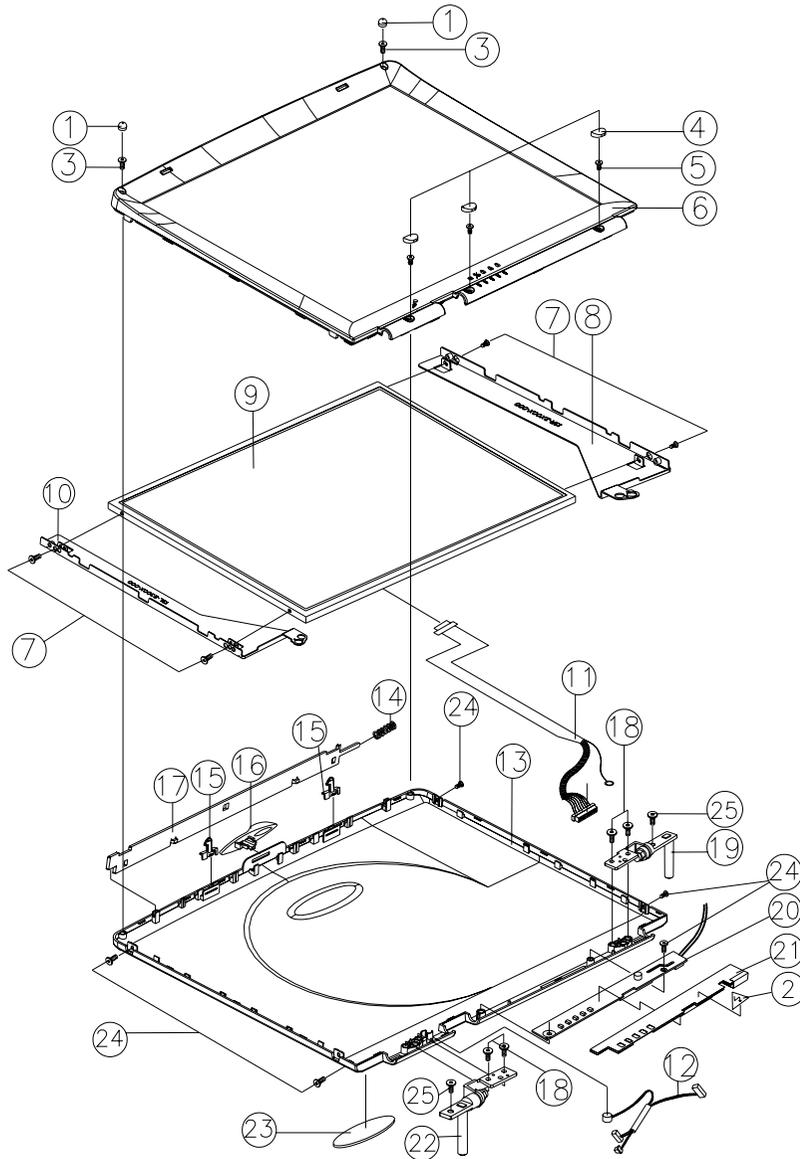


ITEM	PART NAME	PART NO	REMARK
1	CD-RDM ASS'Y DWG	79-2202Z-011	Reference Assy Dwg (99-2700S-050)
2	DVD-RDM ASS'Y DWG	79-2202V-011	Reference Assy Dwg (99-2700S-060)
1	SYSTEM ASS'Y W/LAN DR MODEM	79-22000-00A	
3	SCREW M2.5*4.0L K1 BNI ICT	35-B9125-4R0	
4	STANDOFF FOR M/B SUM22	34-22002-000	
5	SCREW M2.5*5L K1 NI ICT	35-B1125-5R0	
6	FDD ASS'Y DWG	79-2202J-011	Reference Assy Dwg (99-2200S-070)
7	FDD MYLAR(L130*W96*t0.1)mm	40-22003-000	
8	SCREW M2.5*4L K1 NI ICT	35-B9125-4R0	
9	SCREW M2*10L I NI ICT	35-C1120-100-1	
10	CD-RDM/DVD BRACKET	33-2200Z-012	
11	CD-RDM MYLAR(L122*W104*t0.1)mm	40-2205Z-010	
12	MYLAR FOR BATTERY	40-8505M-010	
13	HEX STUD FOR CPU HEATSINK	34-2200N-010	
14	HEATSINK MODULE 2200T	31-22CON-100	
14	HEATSINK MODULE 2200T	31-22TON-100	
15	CABLE FOR MDC TO M/B	43-22011-002	
16	MAIN BOARD(w/ LAN DR MODEM)	77-22T00-DOX	
17	CPU MYLAR	40-22C0S-012	
18	HDD ASS'Y (w/O HDD)	79-22021-011	Reference Assy Dwg (99-2200S-060)
19	HDD MYLAR FOR M/B	40-22002-002	
20	HEX STUD SUM NI-PL 11mm	34-82001-000	
21	AUDIO MYLAR(L22*W15*t0.15)mm	40-22007-000	
22	64M SDRAM*16 PC-100	76-0017U-AB0	
22	64M SDRAM*16 PC-100	76-0017U-AD0	
23	MYLAR FOR M/B TO I/O BRACKET	40-22S0S-020	
24	I/O BRACKET	33-22T0S-010	
25	SCREW M2.5*8L B BN ICT	35-49125-8R0	
26	M/B MYLAR	40-22010-002	
27	SECOND FAN	23-A221B-051	
28	BOTTOM CASE	39-27113-01A	
29	BATTERY COVER RUBBER	47-22001-020	
30	BATTERY COVER	42-2707M-011	
31	SCREW M2.5*23L K1 NI ICT	35-B1125-230	
32	BATTERY FOR LI-ION 3600 PANA	87-2208S-42C	
33	RUBBER FOOT SILICONE 990H	47-22003-010	
34	BATTERY RUBBER	47-22001-010	
35	FDD LENS	39-22021-000	
36	SCREW M2*4L K1 BNI ICT	35-B9120-4R0	
37	IR LENS	39-22020-000	
38	CARD BUS DDR SPRING Ø0.2mm	38-22001-000	
39	DOOR FOR CARBUS GARAGE	42-2707P-010	
40	RAM COVER	42-27072-030	
41	SCREW M2*4L K1 NI ICT	35-B1120-4R0-A	
42	FCC DOC LABEL	45-27C03-030	
43	SCREW M2.5*6L B BN ICT	35-49125-6R0	
44	SCREW M2.5*14L K1 BNI ICT	35-B9125-140	
45	GASKET (60*9*0.5)FOR 2XC/S HDD CAS	47-00190-601	
46	GASKET FOR I/O BRACKET (B)	47-00190-380	
47	MYLAR (20*13*0.3) PC/BK FOR 2XC/S D	40-00120-150	
48	AUDIO JACK SHIELDING	33-2200S-020	

2700T

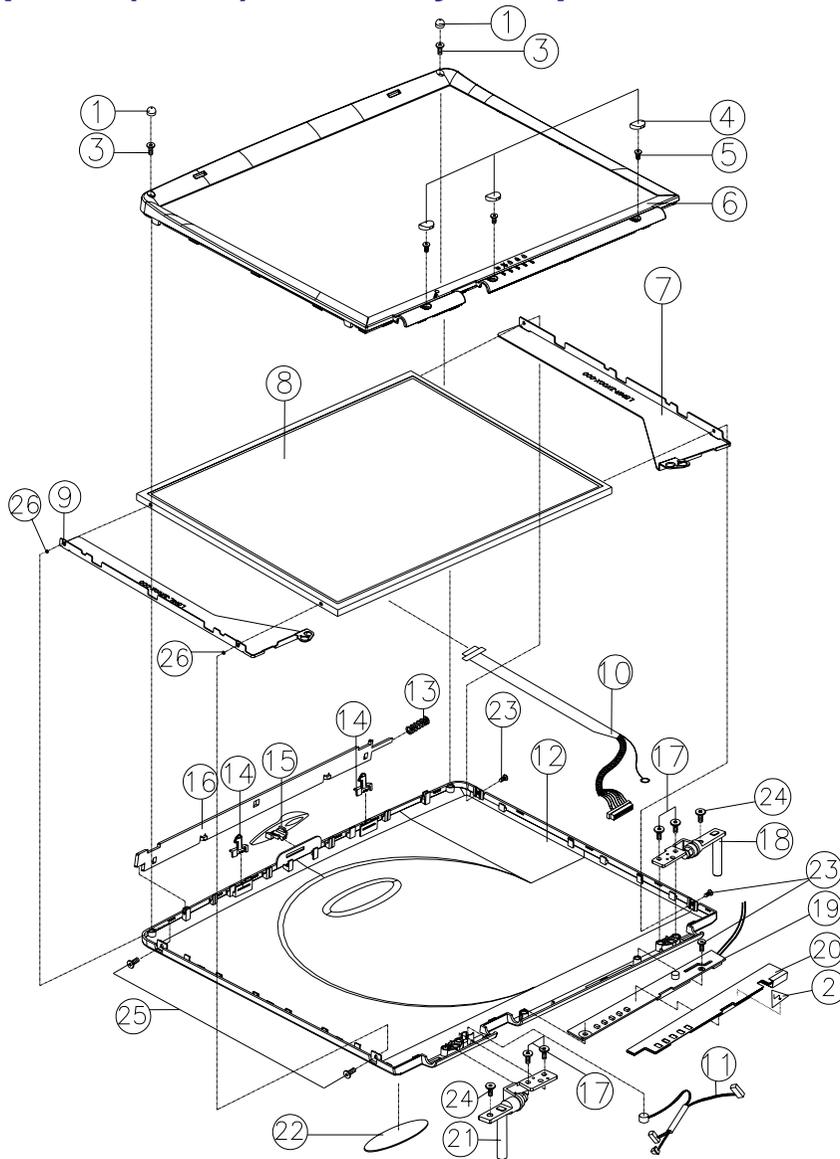
LCD panel (13.3") assembly and parts list

2700T



ITEM	PART NAME	PART NO	REMARK
1	DISPLAY RUBBER PAD(TOP)	47-27031-010	
2	ELECTRIC SHOCK CAUTION 82H	45-82004-000	
3	SCREW M2*4L P NI ICT	35-01120-4R0	
4	DISPLAY RUBBER PAD(BOTTOM)	47-27021-010	
5	SCREW M2.5*0.45P*6L KI NI ICT	35-B1125-6R0	
6	LCD FRONT COVER & LENS MODULE FOR 13.3"	39-27001-011	
7	SCREW M2*3L KI BK ICT	35-B4120-3R0	
8	LCD BRACKET (R) FOR 13.3"	33-27001-010	
9	LCD 13.3" T UNIPAC UB133X01 5.5M	50-G2255-U01	
9	LCD T HYUNDAI HT13X14-101-P 13.3"XG	50-G2257-H01	
10	LCD BRACKET (L) FOR 13.3"	33-27001-020	
11	WIRE CABLE FOR UNIPAC UB133X01	43-22001-200	
11	WIRE CABLE FOR HYU. HT13X14	43-22001-210	
12	WIRE CABLE FOR INVERTER	43-22006-002	
13	LCD BACK COVER 13.3/14.1"	39-27001-02B	
14	LCD SPRING FOR HOOK	38-26004-003	
15	LCD HOOK	42-270A1-010	
16	LCD HOOK KNOB	42-270A1-021	
17	LCD LATCH BRACKET	33-22001-010	
18	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
19	HINGE (R) ASS'Y	79-2200Y-011	
20	INVERTER BOARD SMT ASS'Y V2.0 2200	77-22001-002	
21	INVERTER MYLAR	40-22004-000	
22	HINGE (L) ASS'Y	79-2200Y-021	
23	DISPLAY BACK COVER LABEL	45-31B01-010	
24	SCREW M2*4L KI NI ICT	35-B1120-4RB	
25	SCREW M2.5*8L B BN ICT NY	35-49125-8R0	

LCD panel (14.1") assembly and parts list

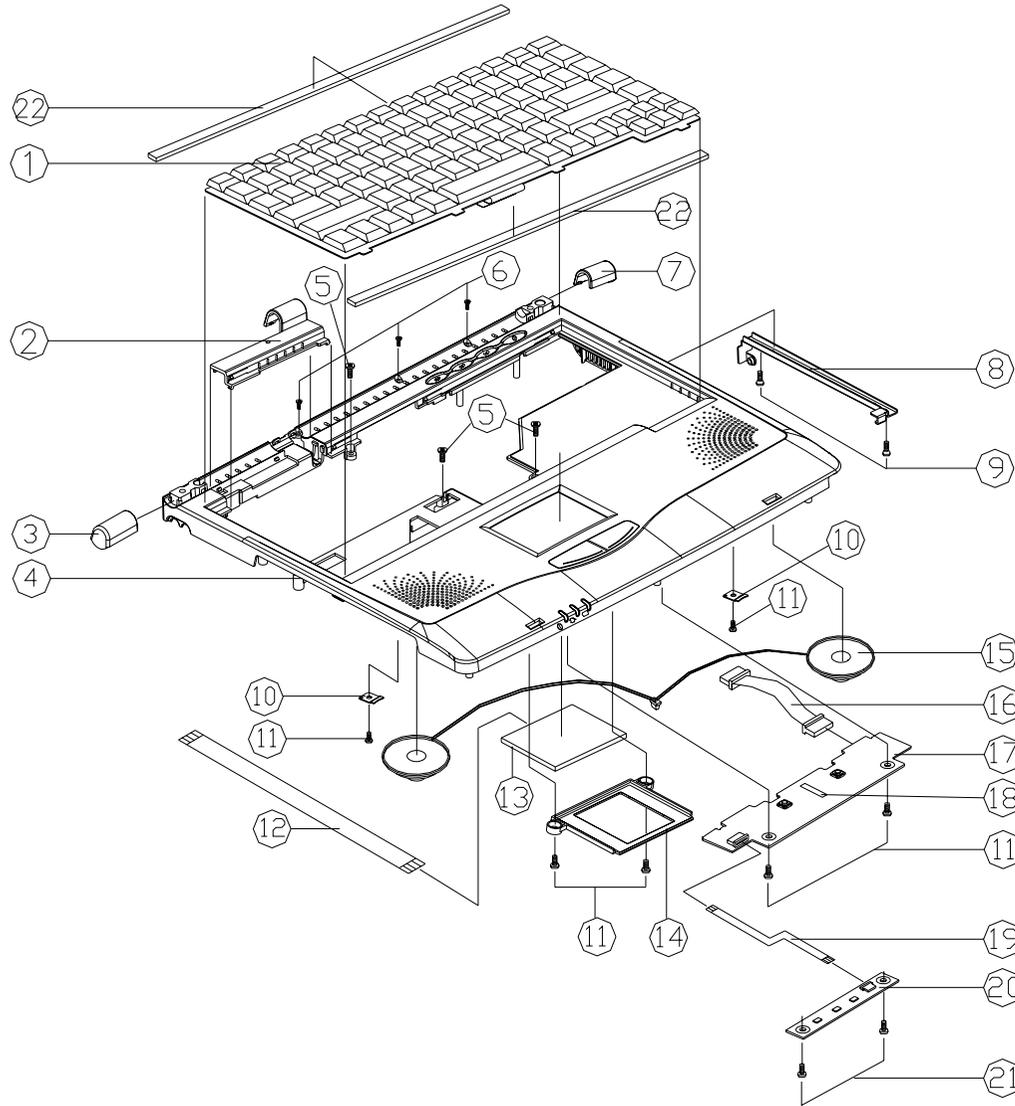


ITEM	PART NAME	PART NO	REMARK
1	DISPLAY RUBBER PAD(TOP)	47-27031-010	
2	ELECTRIC SHOCK CAUTION 82H	45-82004-000	
3	SCREW M2*4L P NI ICT	35-01120-4R0	
4	DISPLAY RUBBER RAD(BOTTOM)	47-27021-010	
5	SCREW M2.5*0.45P*6L KI NI ICT	35-B1125-6R0	
6	LCD FRONT COVER & LENS MODULE FOR 14.1"	39-27001-211	
7	LCD BRACKET (R) FOR LG/UNIPAC.14.1"	33-27001-210	
7	LCD BRACKET (R) FOR HYU.14.1"	33-27001-110	
8	LCD T UNIPAC UB141X01 14.1" 6.0mm	50-J2260-U02	
8	LCD T LG LP141XA-A1NA 14.1" XGA	50-J6787-66L	
8	LCD T HYUNDAI HT14X12-101 14.1" XGA	50-J2257-H01	
8	LCD T HYUNDAI HT14X13-101-P 14.1" XG	50-J2257-H02	
9	LCD BRACKET (L) FOR LG/UNIPAC.14.1"	33-27001-220	
9	LCD BRACKET (L) FOR HYU.14.1"	33-27001-120	
10	WIRE CABLE FOR LG/UNIPAC	43-22001-300	
10	WIRE CABLE FOR HYU.	43-22001-310	
11	WIRE CABLE FOR INVERTER	43-22006-002	
12	LCD BACK COVER 14.1"	39-27001-02B	
13	LCD SPRING	38-26004-003	
14	LCD HOOK	42-270A1-010	
15	LCD HOOK KNOB	42-270A1-021	
16	LCD LATCH BRACKET	33-22001-010	
17	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
18	HINGE (R) ASS'Y	79-2200Y-011	
19	INVERTER BOARD SMT ASS'Y V2.0 2200	77-22001-002	
20	INVERTER MYLAR	40-22004-000	
21	HINGE (L) ASS'Y	79-2200Y-021	
22	DISPLAY BACK COVER LABEL	45-31B01-010	
23	SCREW M2*4L KI NI ICT	35-B1120-4RB	
24	SCREW M2.5*8L B BN ICT NY	35-49125-8R0	
25	SCREW M2*5L I BZ ICT	35-C6120-5R0	
26	WASHER FOR FDD CASE	40-11A5J-020	

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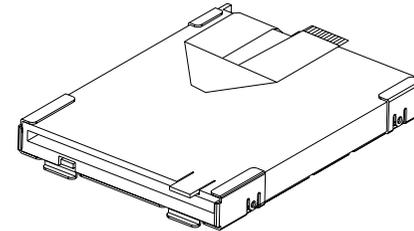
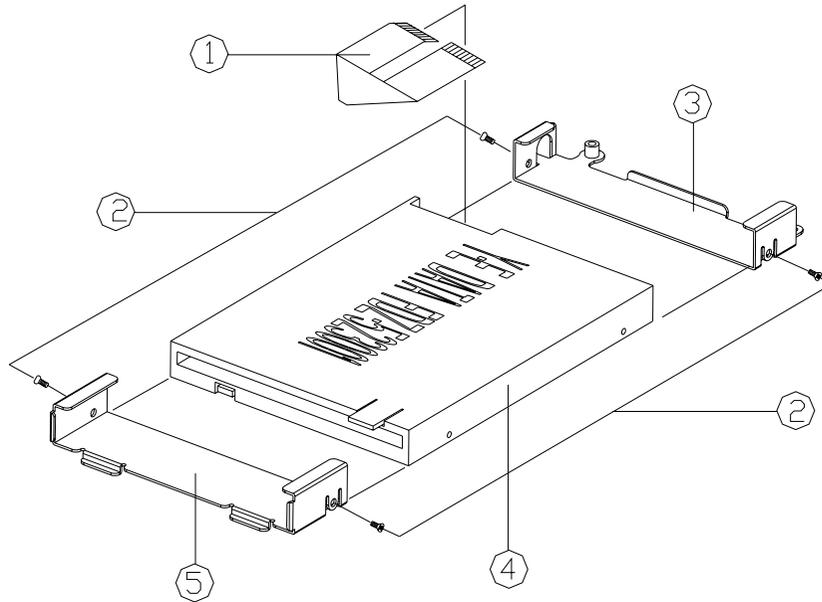
Keyboard and Touchpad assembly and parts list

2700T



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD	80-22008-7G0	
2	LCD CABLE COVER	42-27071-101	
3	HINGE COVER(L)	42-2707Y-021	
4	TOP CASE MODULE 2700	39-27002-011	
5	SCREW M2.5*5L K1 NI ICT	35-B1125-5R0	
6	SCREW M2*4L K1 BNI ICT	35-B9120-4R0	
7	HINGE COVER(R)	42-2707Y-011	
8	CD-ROM BRACKET	33-2700Z-010	
9	SCREW M2*3L F NI	35-21120-3R0	
10	SPEAKER BRACKET	33-22017-000	
11	SCREW M2.5*3L K1 NI ICT	35-B1125-3RA	
12	FFC CABLE 8P 85mm FOR GLIDE POINT	27-9350C-850	
13	TOUCHPAD ALPS KGDDHQ943A	49-98000-030	
14	TOUCH PAD HOLDER MODULE	79-2200M-0A0	
15	SPK. WITH CABLE 28mm	23-52810-201	
16	WIRE CABLE FOR CLICK BOARD	43-22008-001	
17	SWITCH BOARD	77-27001-D01	
18	TOUCH-PAD MYLAR	40-22001-000	
19	CABLE FOR LED BOARD	43-2700S-011	
20	LED BOARD	77-27002-D03	
21	SCREW M2*4L KI BN ICT	35-B1120-4R0-A	
22	導電布 FOR KEYBOARD	47-22S97-010	

FDD assembly and parts list

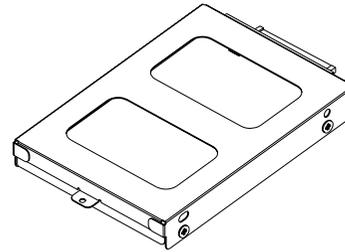
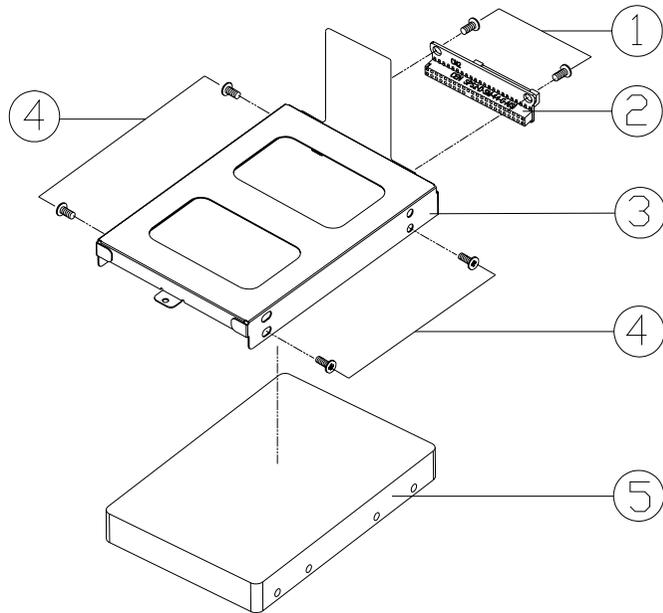


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ITEM	PART NAME	PART NO	REMARK
1	FFC CABEL FOR FDD	43-22009-001	
2	SCREW M2.6*3.5L F NI ICT	35-21126-350	
3	FDD BRACKET 	33-22004-000	
4	3.5" FDD 1.44MB 12.7mm	85-11700-Y01	YD-702J-6637J
5	FDD BRACKET <F>	33-22003-000	

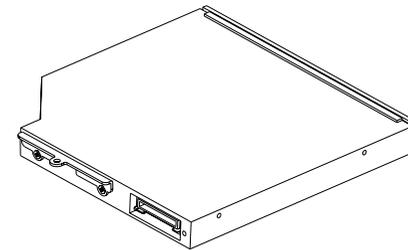
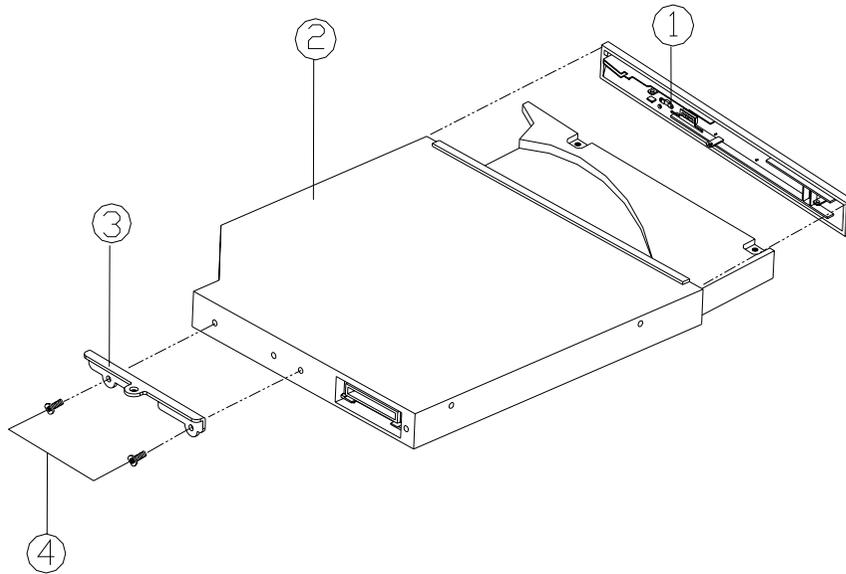
HDD assembly and parts list

2700T



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*2L KI ICT NY	35-B6120-2RA	
2	HDD CONVERTER BOARD SMT ASS'Y	77-22004-D03	
3	HDD HOLDER AND MYLAR MODULE	79-2200N-0A1	
4	SCREW M3*4L KI NI ICT	35-B1130-4RB	
5	2.5" HDD MHK2060AT 6GB 9.5mm	85-01860-F00	FUJITSU
5	2.5" HDD MK6014MAP 6GB 9.5mm	85-01860-T00	TOSHIBA

CD-ROM assembly and parts list

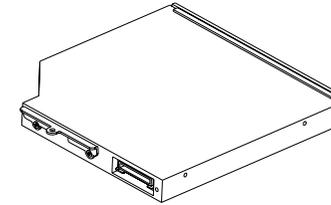
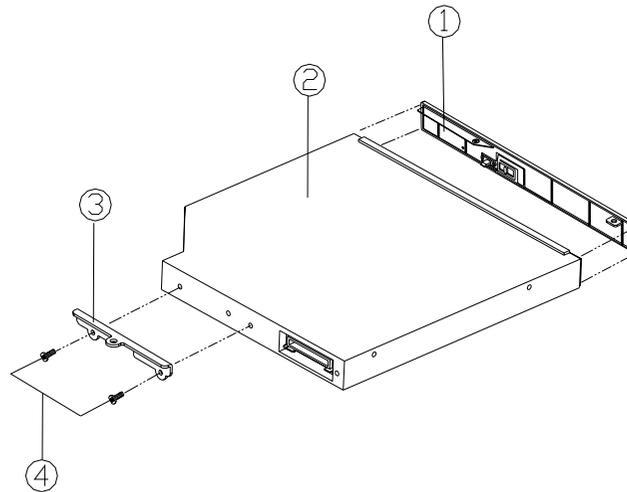


ITEM	PART NAME	PART NO	REMARK
1	CD-ROM BEZEL MODULE	42-22C7Z-000	TOSHIBA
2	CD-ROM 5 1/4" 24X 12.5mm	85-6050X-T03	XM-7002B
3	CD-ROM DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L K1 NI ICT	35-B1120-3RB	

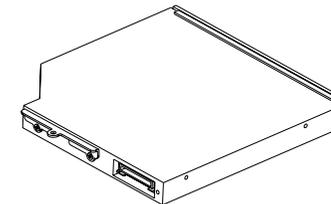
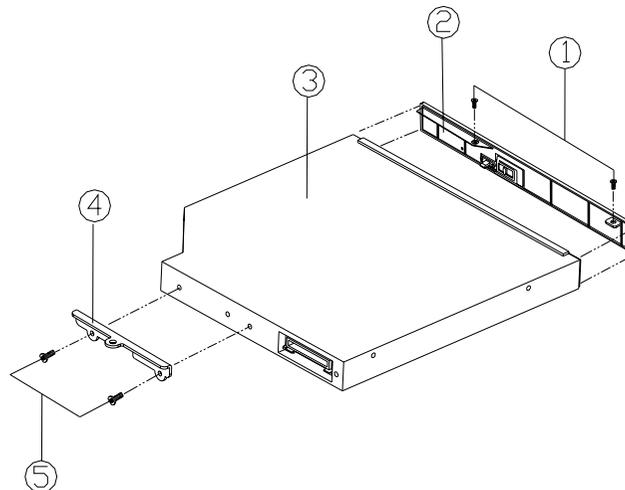
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DVD-ROM assembly and parts list

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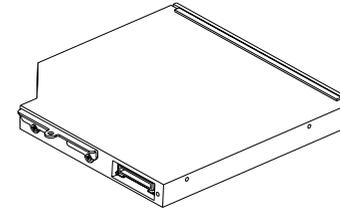
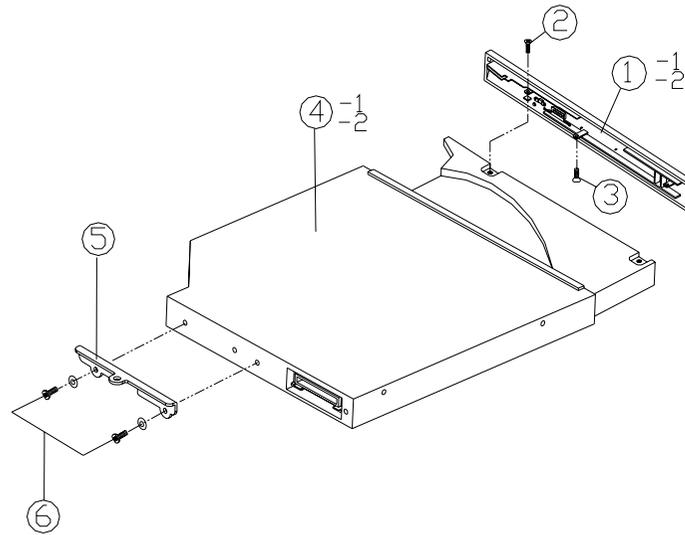


ITEM	PART NAME	PART NO	REMARK
1	DVD BEZEL MODULE	42-22C7V-003	TOSHIBA
2	DVD 5 1/4" 8X 12.7mm	85-7078X-T01	TOSHIBA(KSD-C2402)
3	CD-ROM/DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L KI NI ICT NY	35-B1120-3RB	

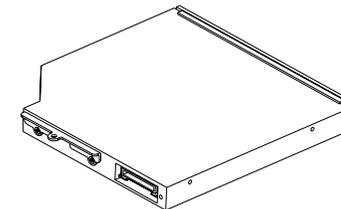
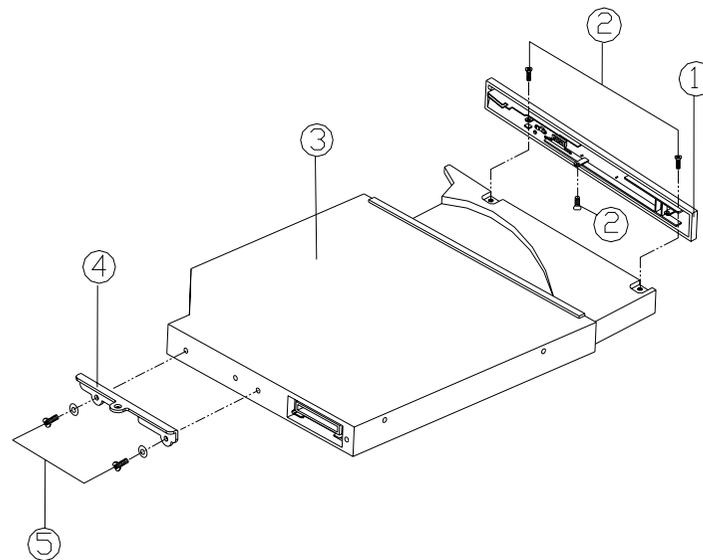


ITEM	PART NAME	PART NO	REMARK
1	SCREW M1.7*0.64*3.0L B BZ ICT	35-46117-3RB	
2	DVD-ROM BEZEL MODULE	42-22C7V-100	QSI
3	DVD 5 1/4" 8X 12.7mm	85-7078X-C01	QSI(KSDR-081)
4	CD-ROM/DVD FIXED BRACKET	33-22002-000	
5	SCREW M2*3L KI NI ICT NY	35-B1120-3RB	

CD-RW assembly and parts list



ITEM	PART NAME	PART NO	REMARK
1-1	CD-RW BEZEL MODULE(UJDA320AC-A)	42-22S7W-200	KME
1-2	CD-RW BEZEL MODULE(UJDA310L 4X)	42-22S7W-100	KME
2	SCREW M1.7*3.5L K BZ TAP	35-86717-3R5	
3	SCREW M1.7*2.5L K BZ AEFT	35-86517-2R5	
4-1	CD/RW 5 1/4" 20/4X 12.7mm	85-8074X-K03	UJDA310L-AC1
4-2	CD/RW 5 1/4" 20/4X 12.7mm	85-8074X-K02	UJDA320AC-A
5	CD-ROM/DVD FIXED BRACKET	33-22002-000	
6	SCREW M2*3L K1 NI ICT NY	35-B1120-3RB	

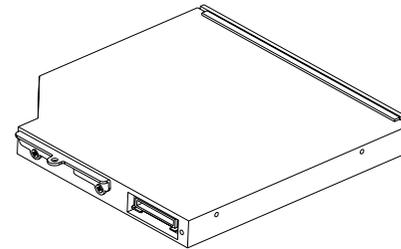
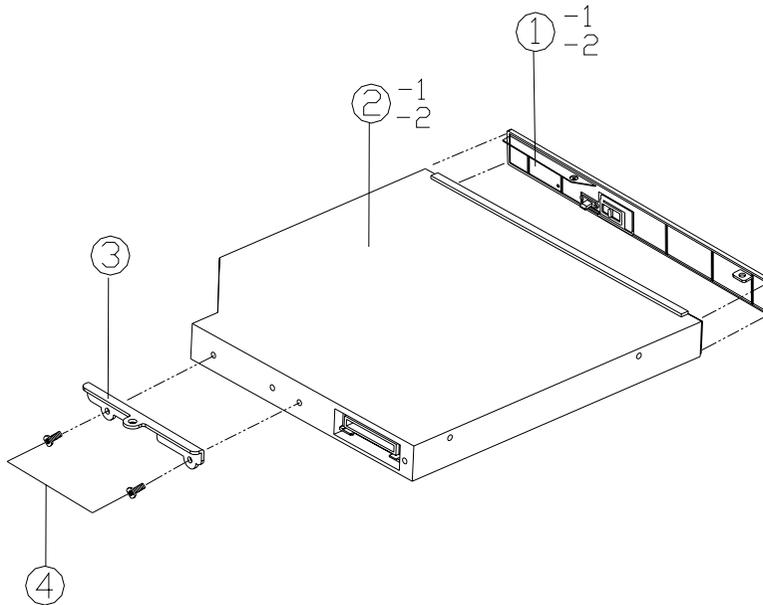


ITEM	PART NAME	PART NO	REMARK
1	CD-RW BEZEL MODULE(UJDA320AC-A)	42-22S7W-200	KME
2	SCREW M1.7*3.5L K BZ TAP	35-86717-3R5	
3	CD/RW 5 1/4" 8X 12.7mm	85-8078X-K00	UJDA330CL-Z
4	CD-ROM/DVD FIXED BRACKET	33-22002-000	
5	SCREW M2*3L K1 NI ICT NY	35-B1120-3RB	

2700T

DVD-ROM+CD-RW combo assembly and parts list

2700T

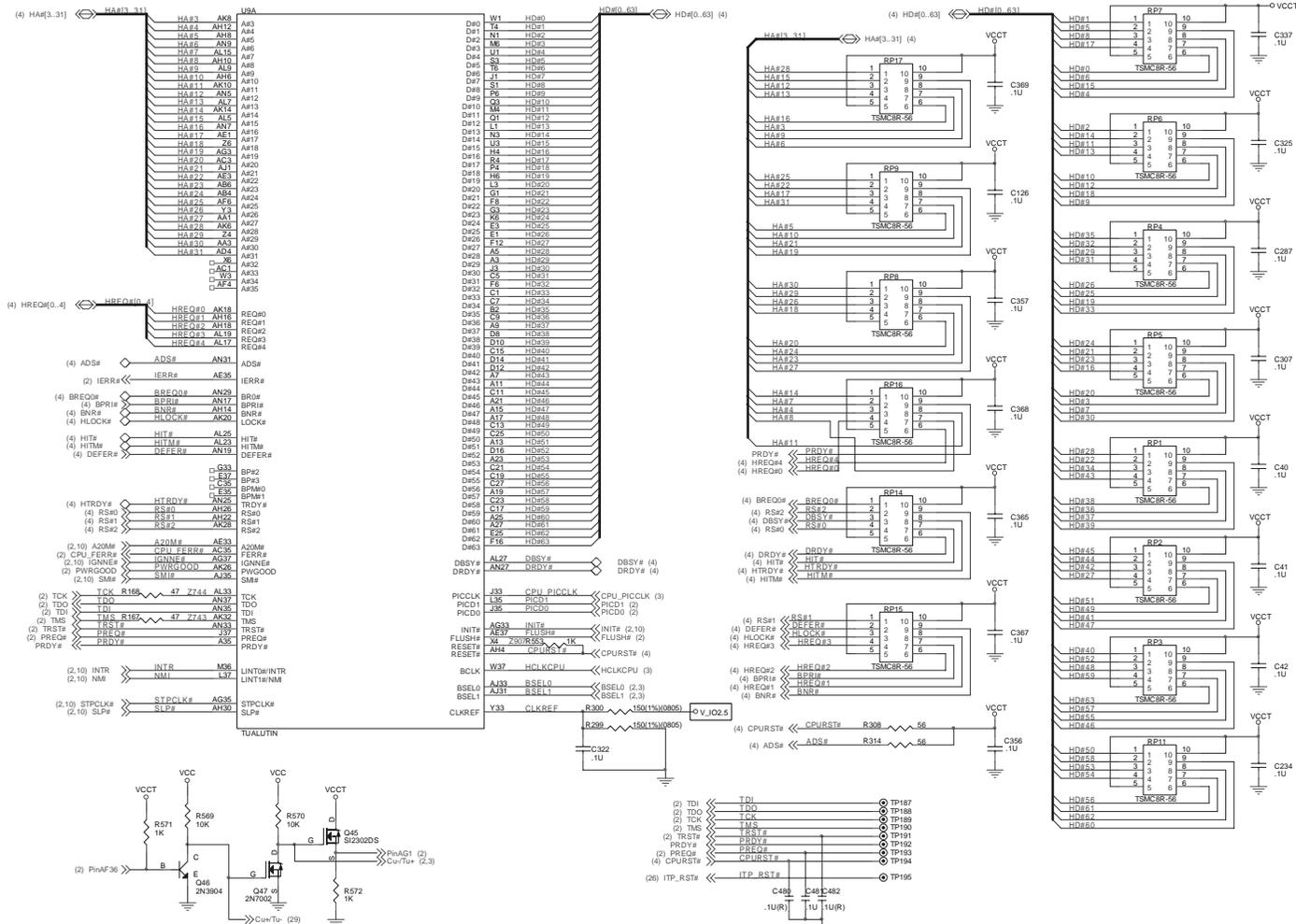


ITEM	PART NAME	PART NO	REMARK
1-1	COMBO BEZEL MODULE	42-22C7X-101	TOSHIBA
1-2	COMBO BEZEL MODULE	42-22C7X-200	KME
2-1	CD-RW/DVD 6X 12.7mm SD-R2002	85-9076X-T00	TOSHIBA
2-2	CD-RW/DVD 5 1/4*8x 12.7mm UJDA710	85-9078X-K00	KME
3	CD-ROM/DVD FIXED BRACKET	33-22002-000	
4	SCREW M2*3L K1 NI ICT NY	35-B1120-3RB	

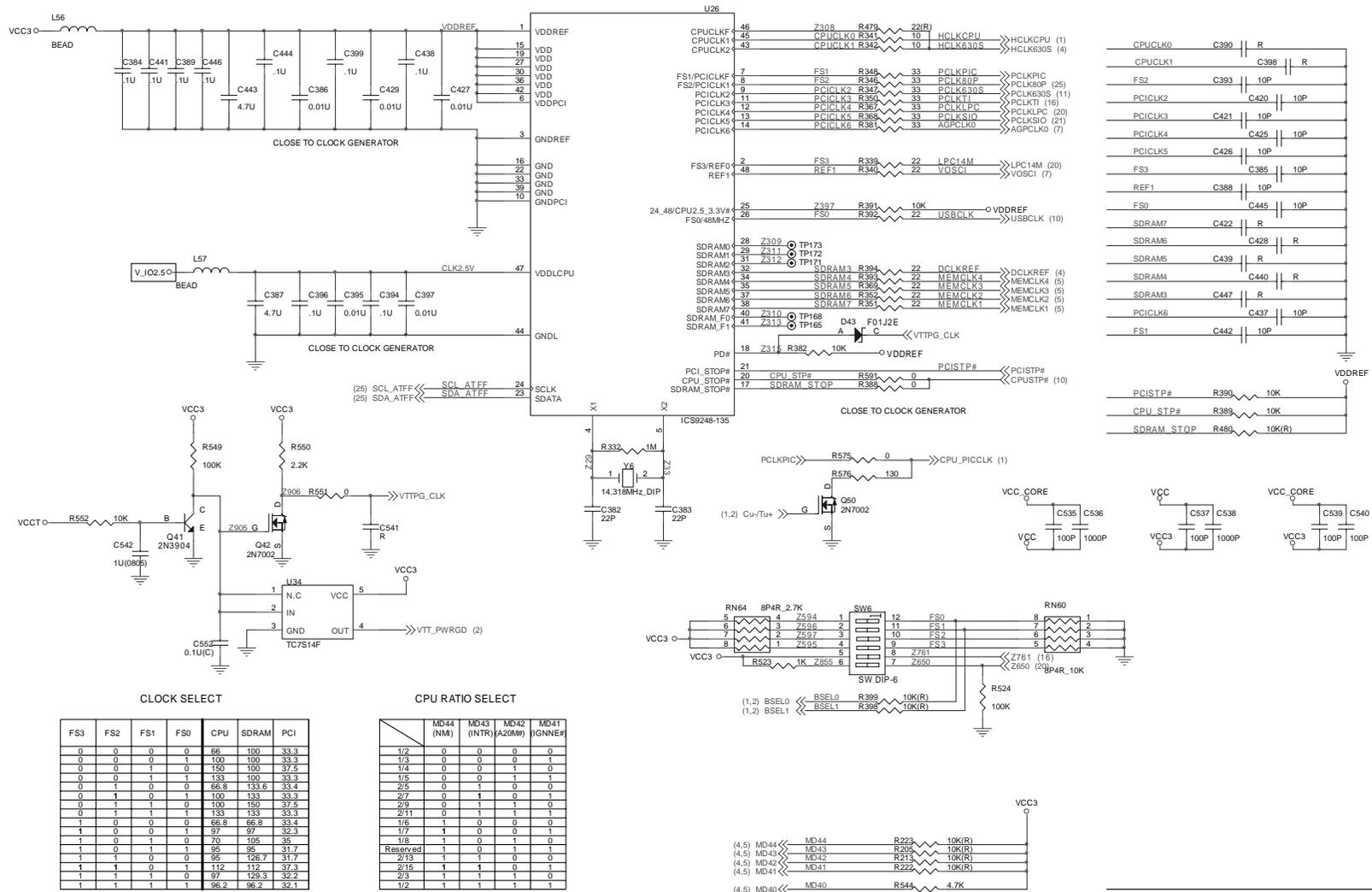
Appendix B: Schematic Diagrams

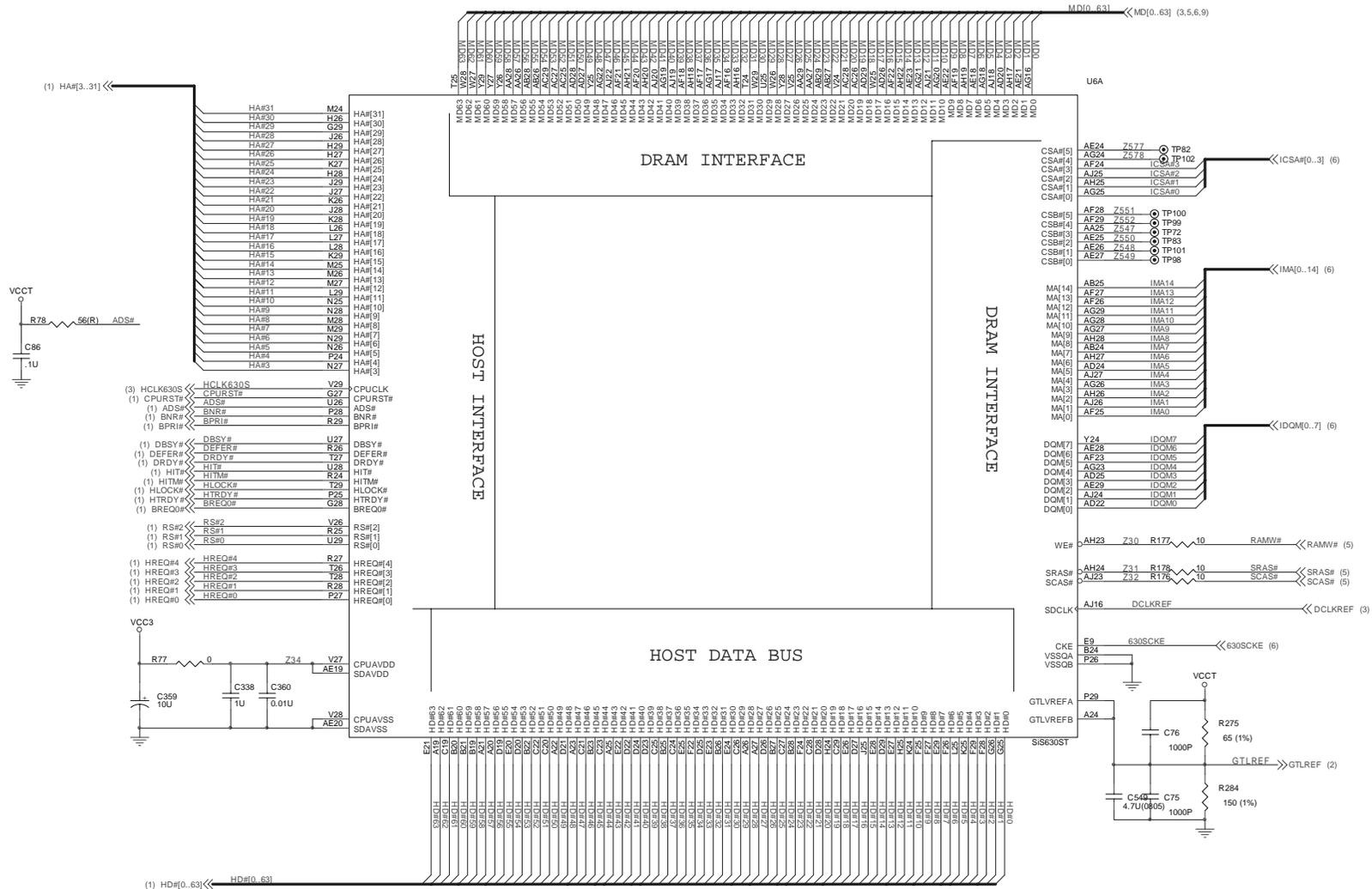
Mainboard (71-22T00-D03)

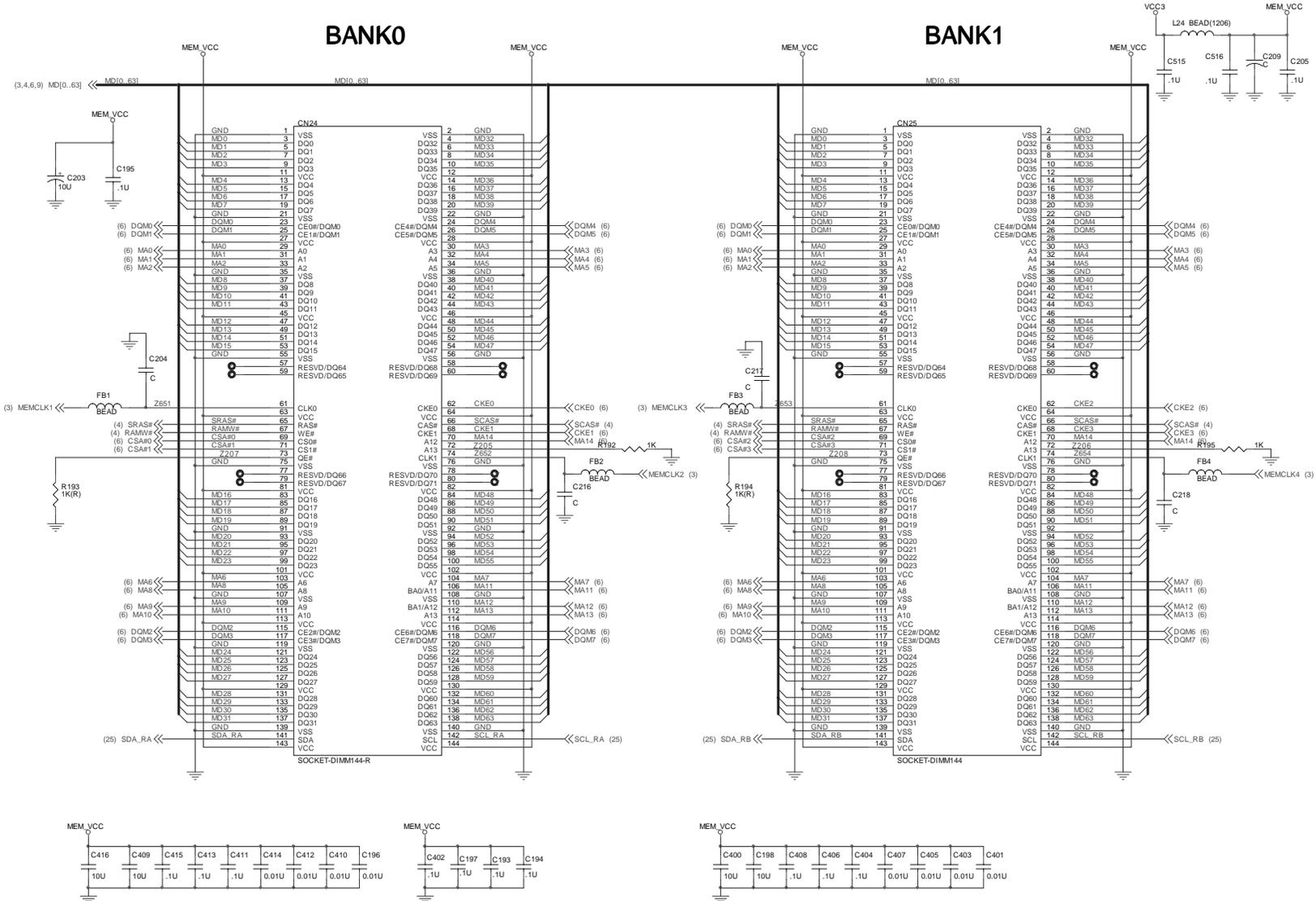
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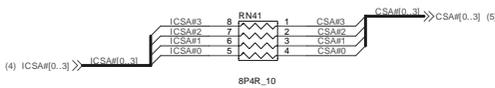
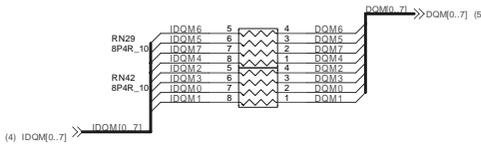
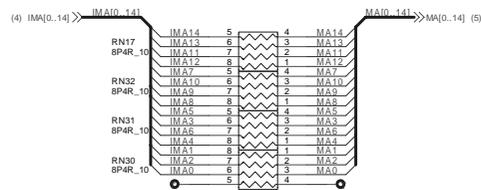


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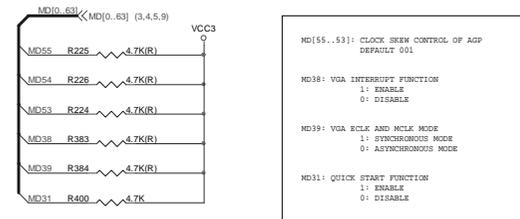
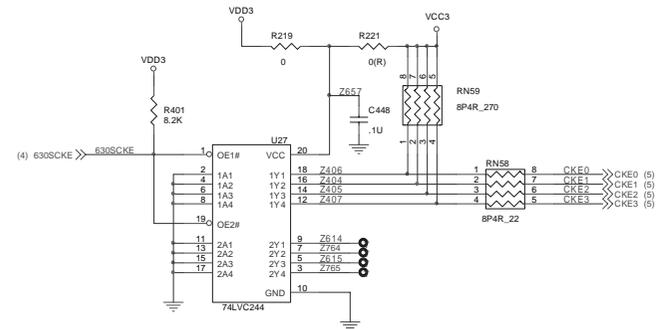




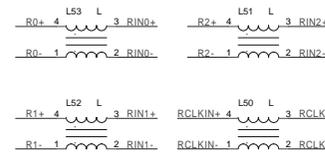
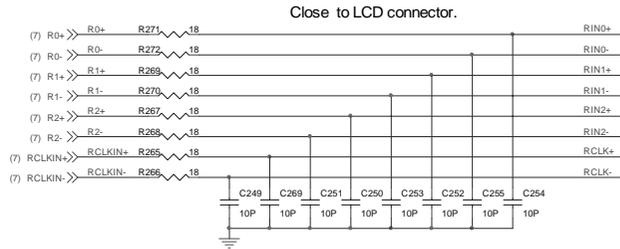




DRAM BUS DAMPING RESISTOR NEAR SIS630S



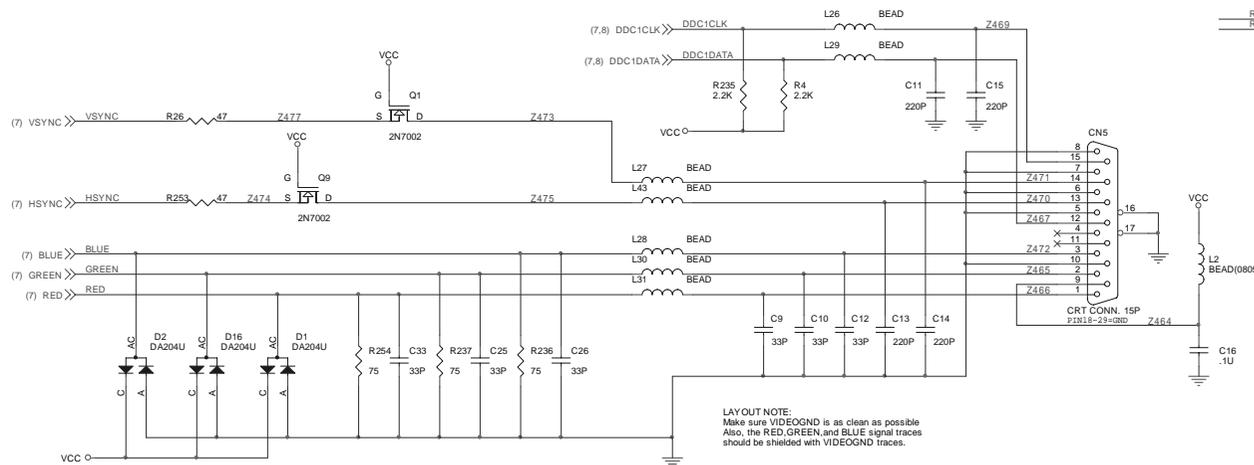
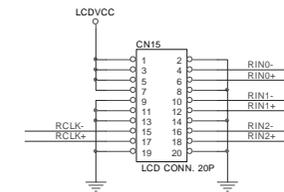
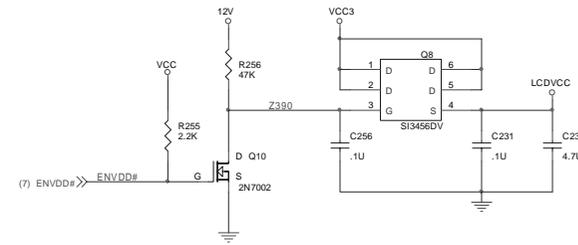
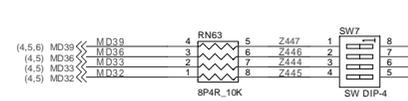
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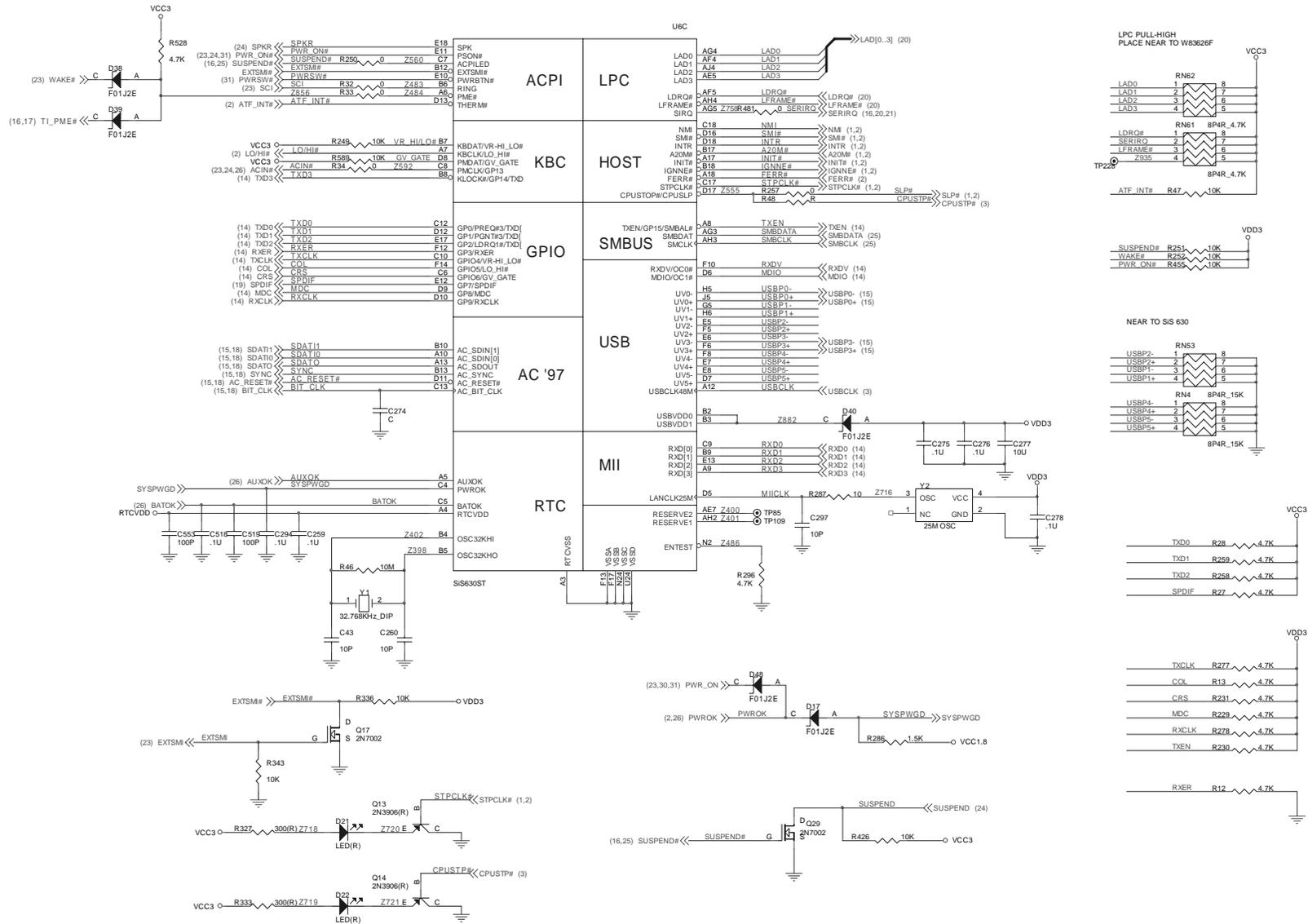


Panel ID		SW7-1 VMX39	SW7-2 VMX36	SW7-3 VMX33	SW7-4 VMX32	
13.3"	LG	LP133X7-C2CC	1	1	0	0
	ADT	L133X2-1	1	1	0	0
	UNIPAC	UP133X01	1	1	0	0
	HYUNDAI	HT133X14	1	1	1	0
14.1"	LG	LP141X5	1	1	0	0
	ADT	L141X1	1	1	0	0
	CPT	CLAA141XB01	1	1	0	0
	CPT	CLAA141XC01	1	1	0	0
	UNIPAC	UP141X01	1	1	0	0
	HYUNDAI	HT14X13	1	1	1	0

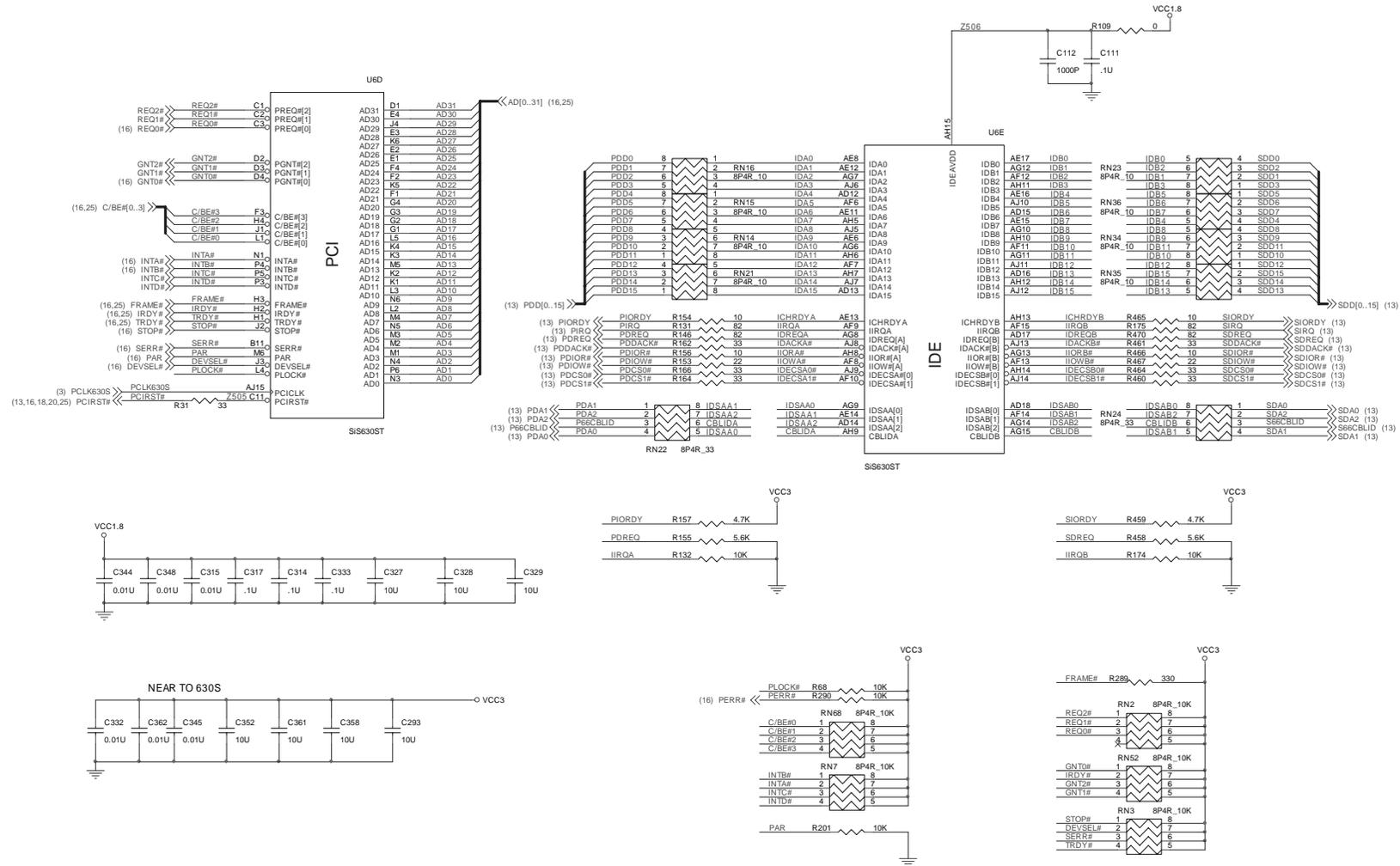
ON=H=1 OFF=L=0

MD39 1: LVDS
0: CMOS
MD36 1: 1024*768
0: 800*600
MD32,MD33 : PANEL ID

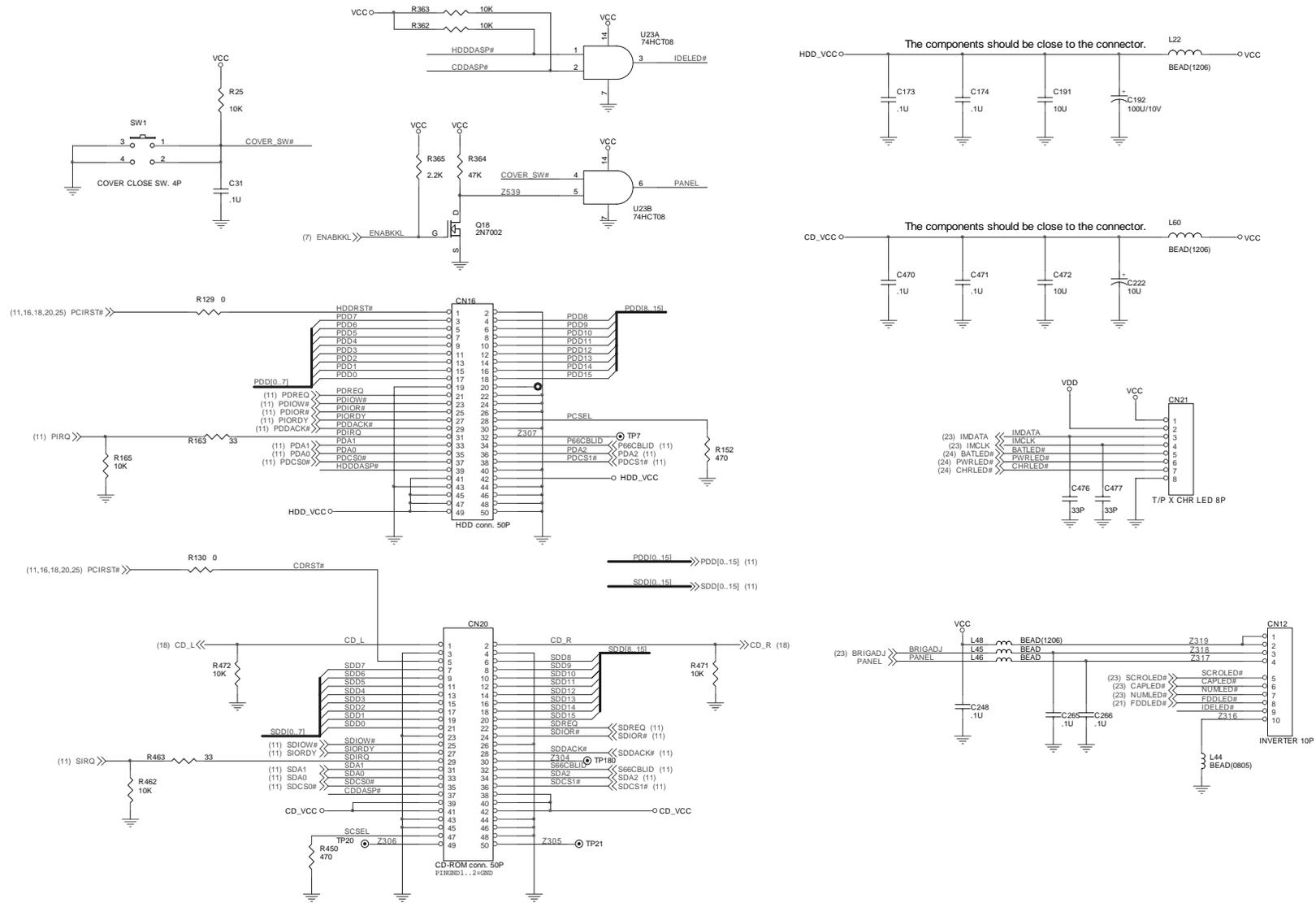


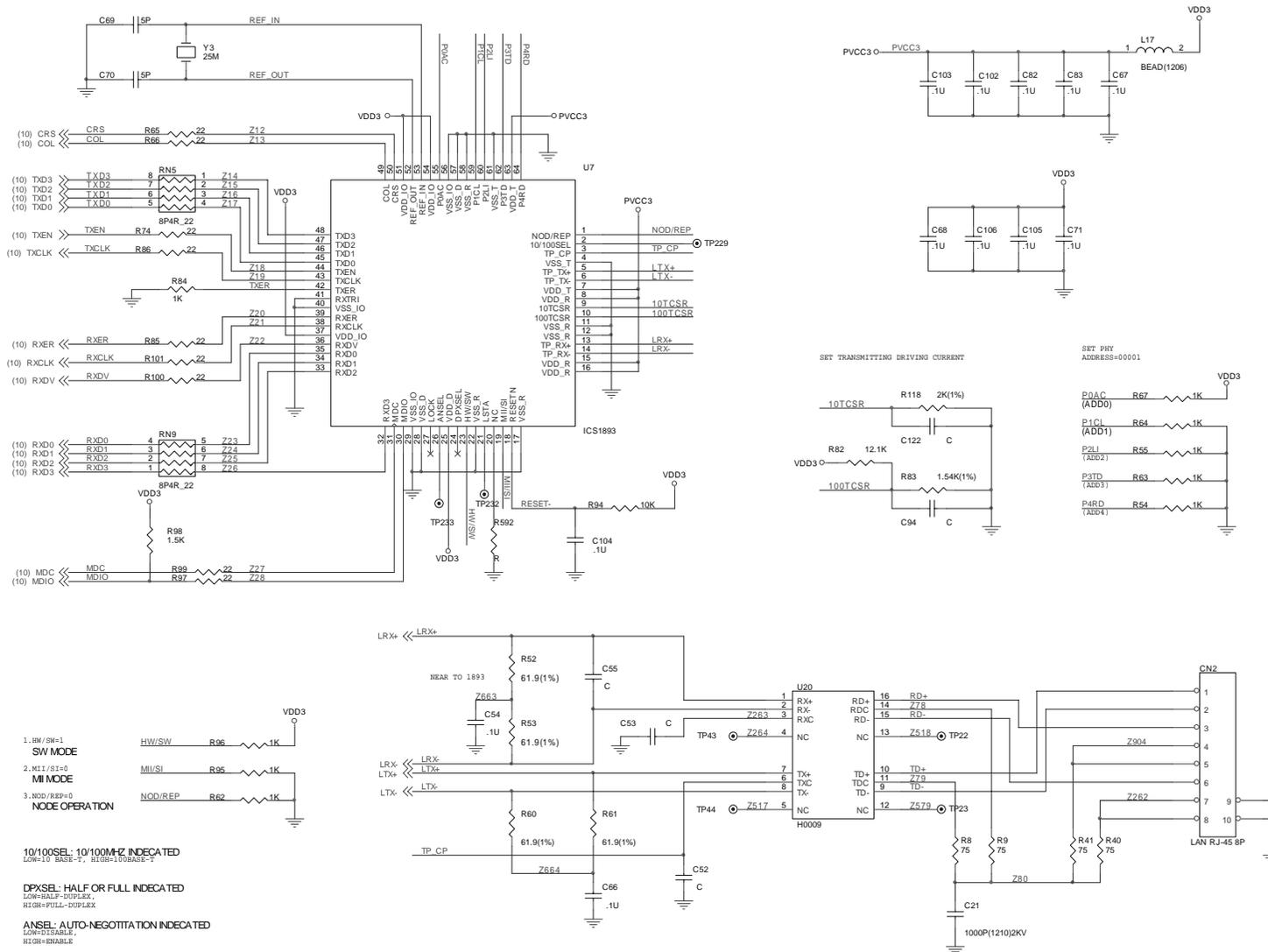


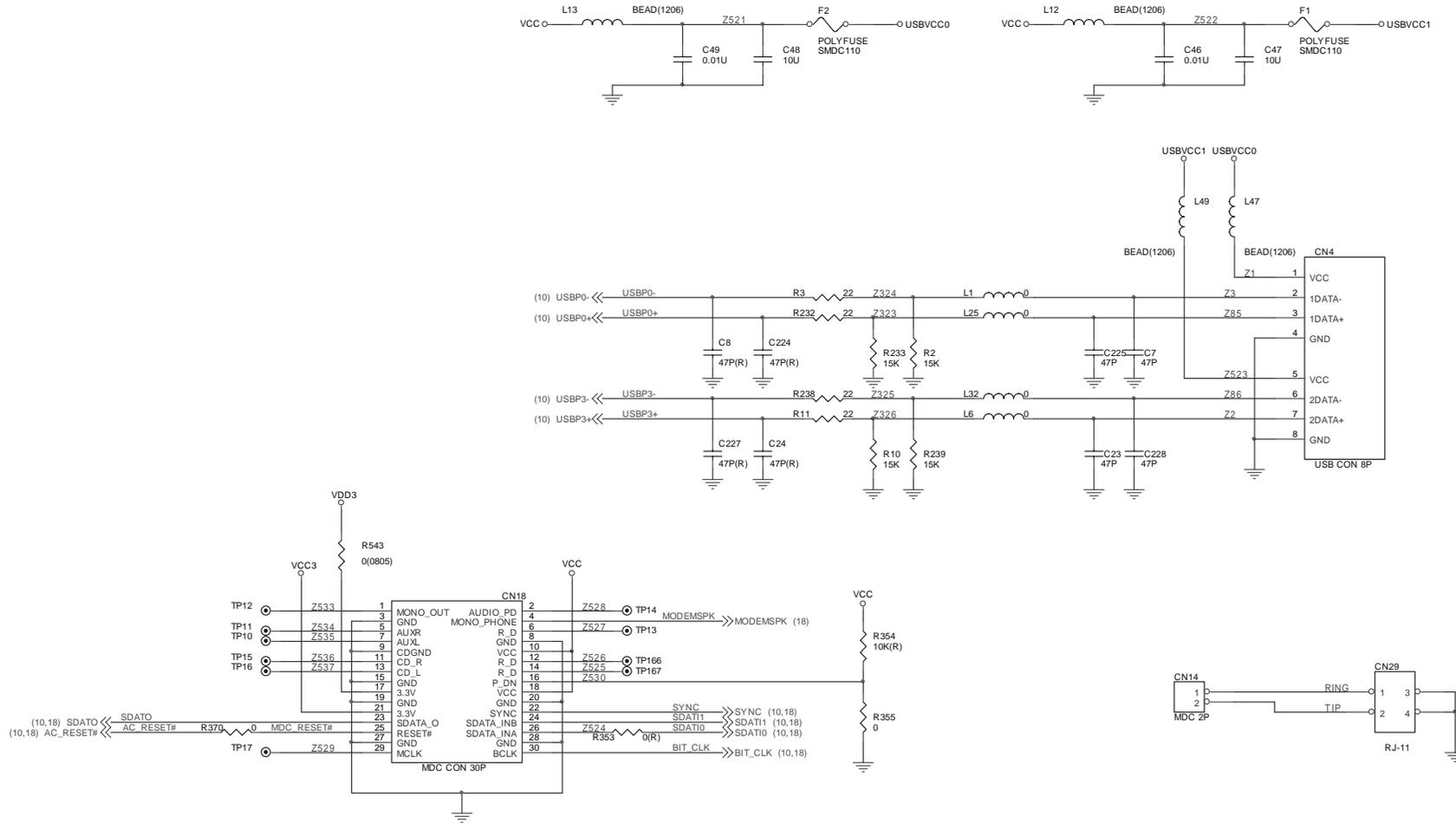
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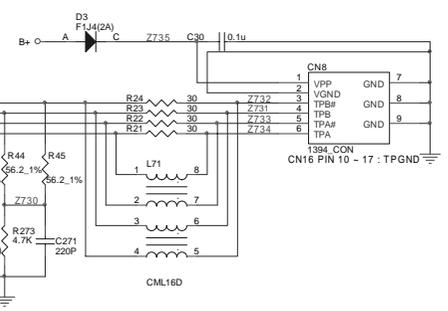
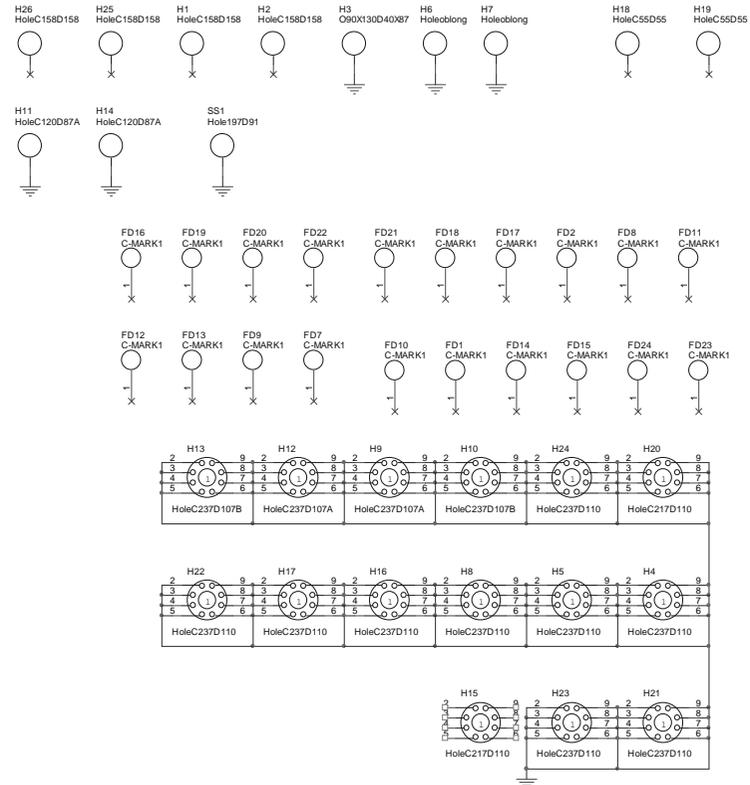
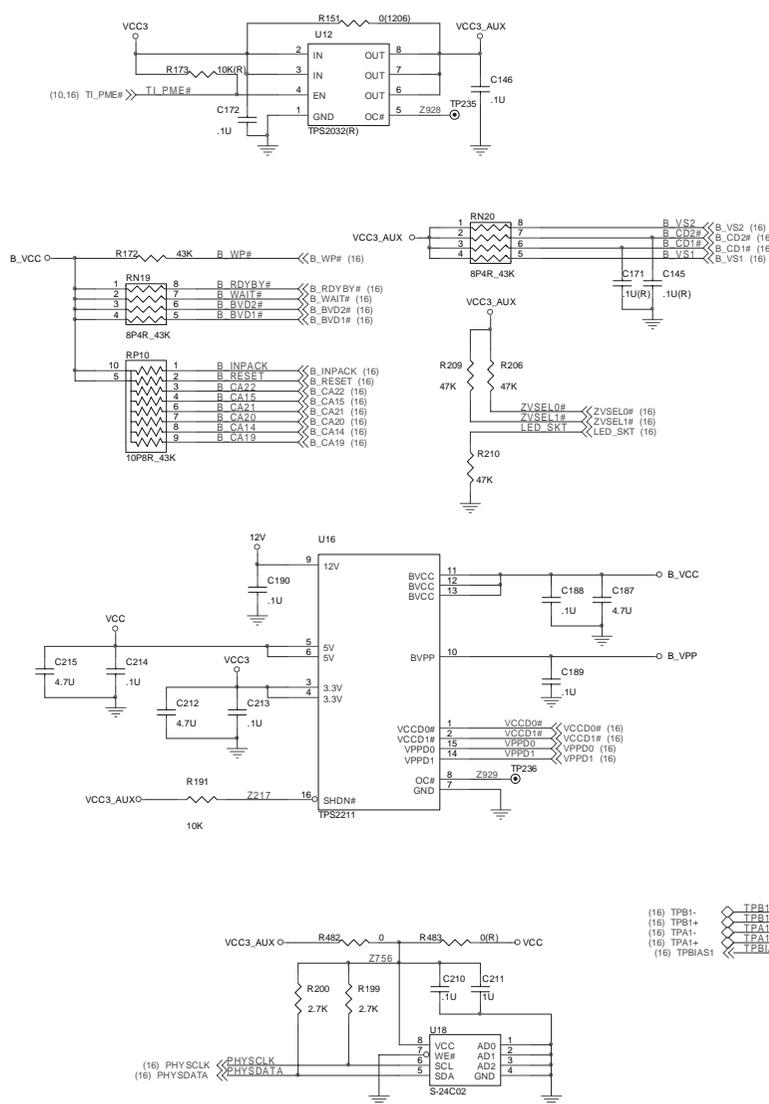
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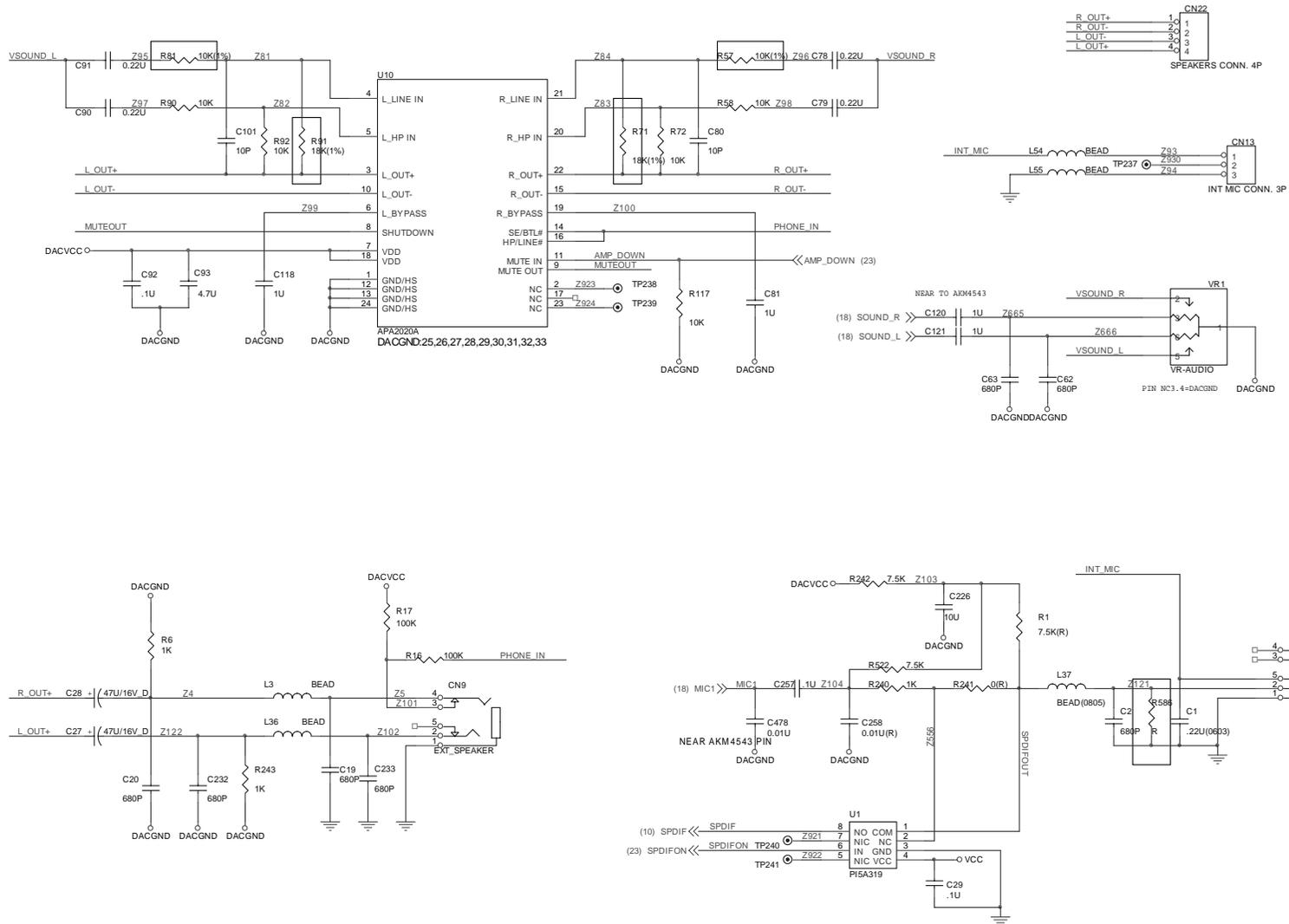


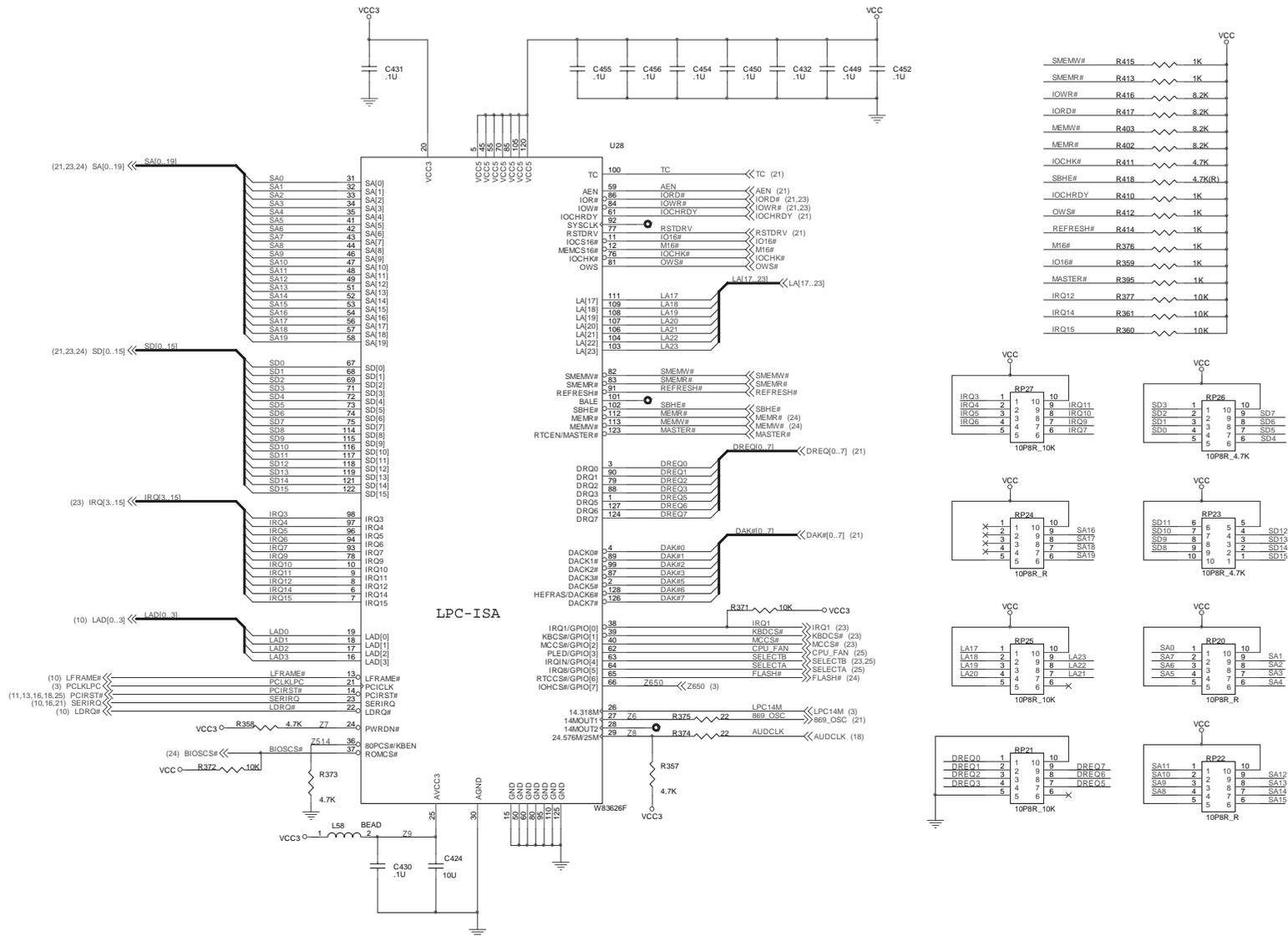


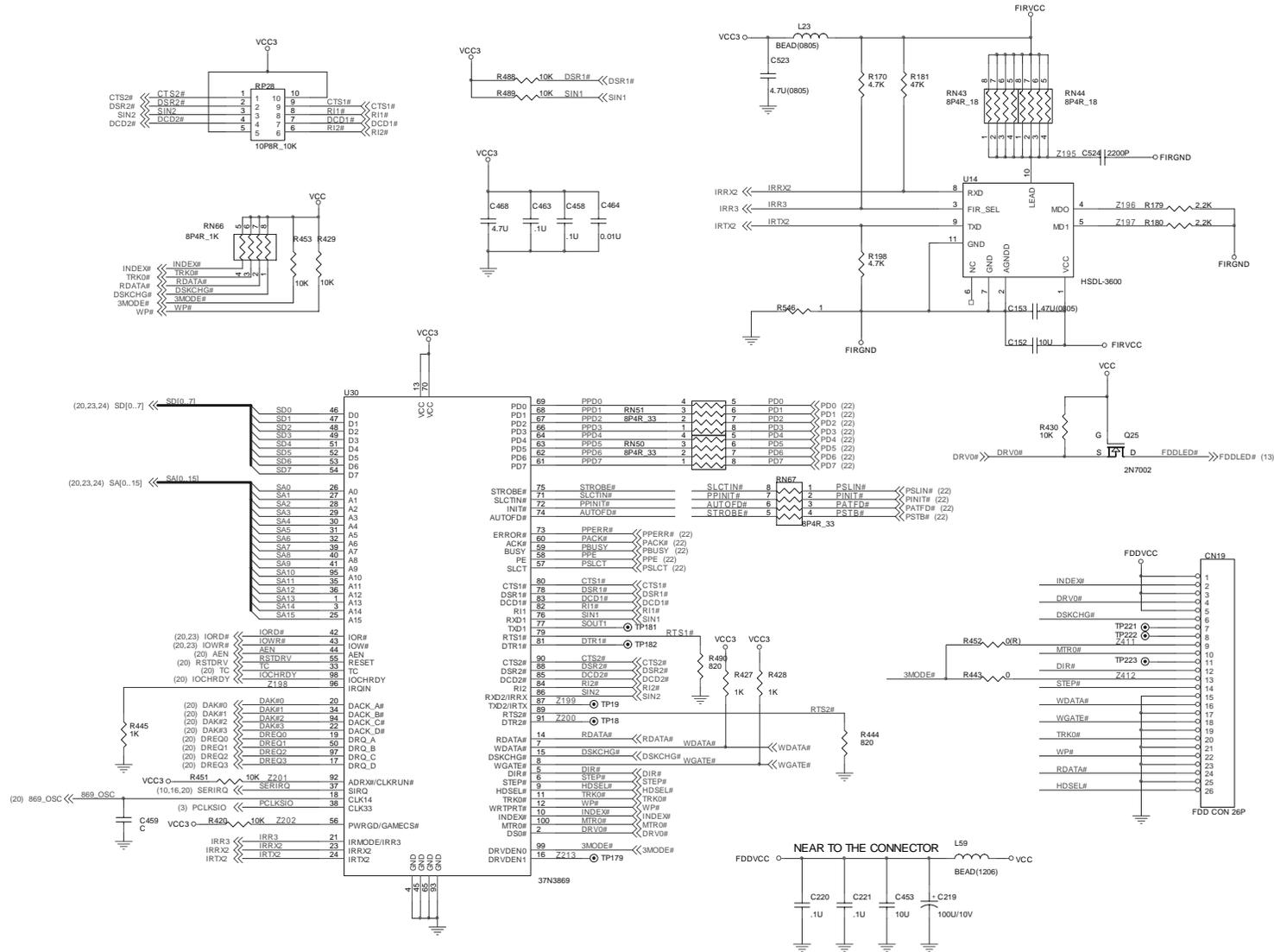


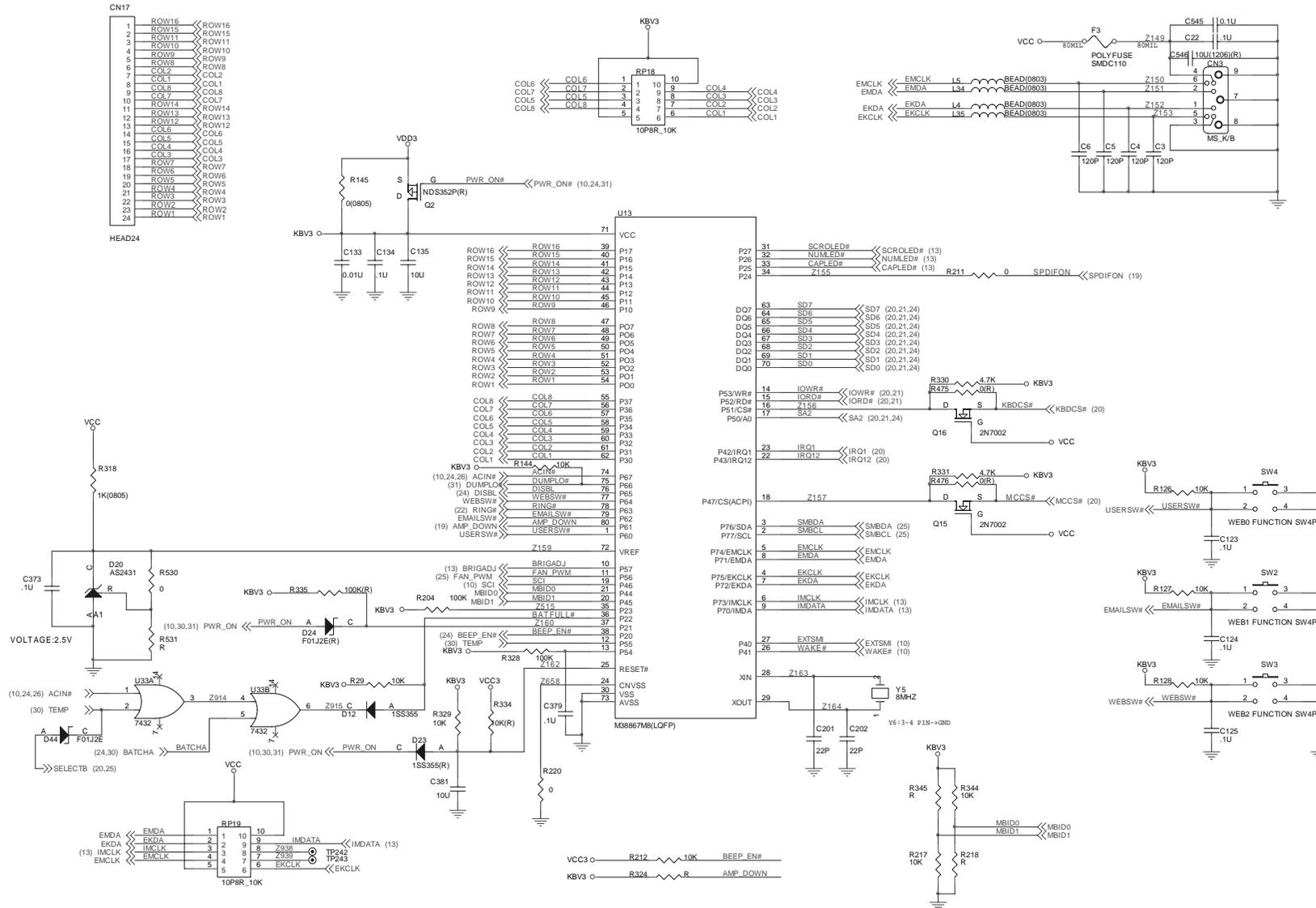
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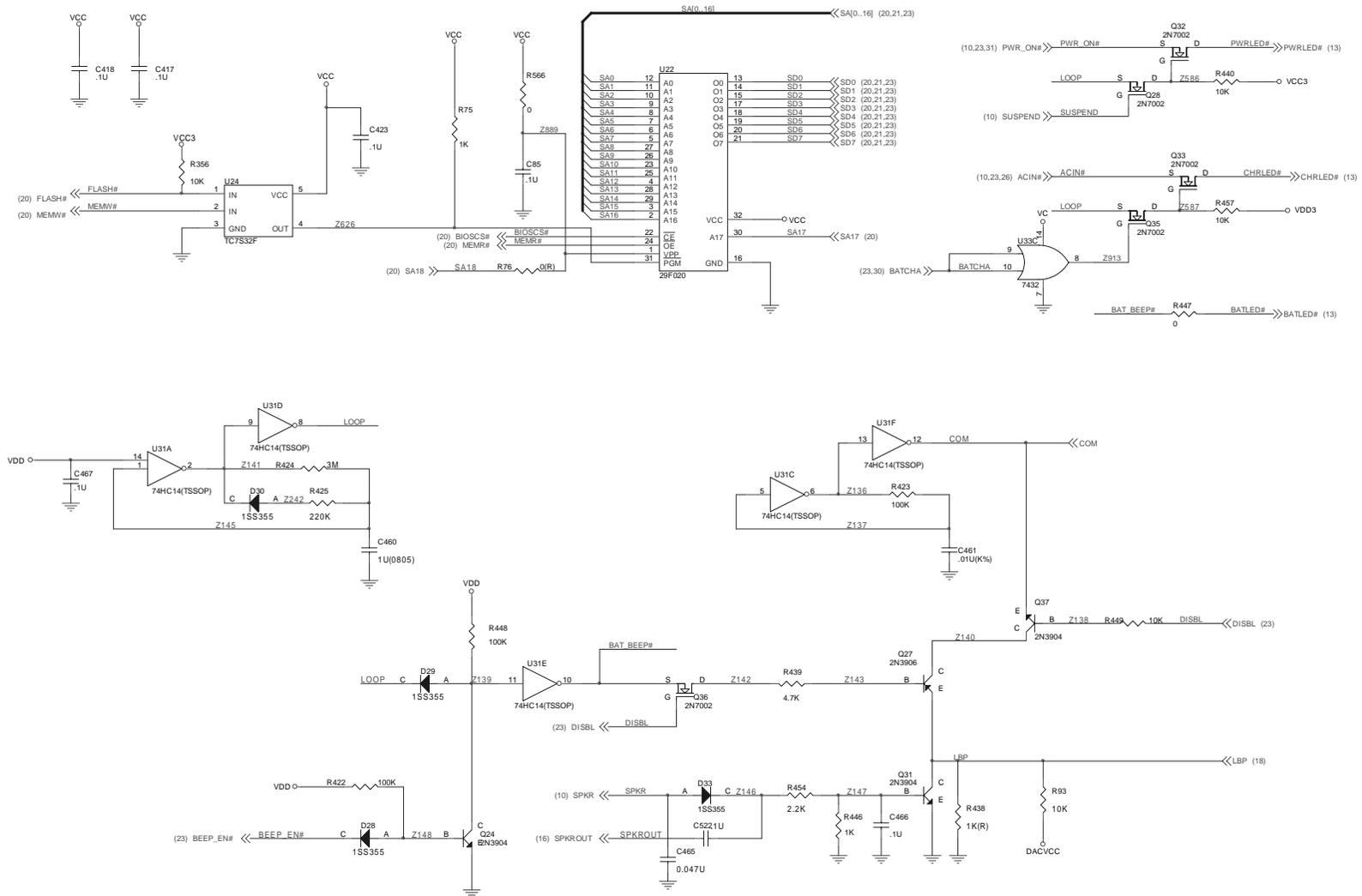




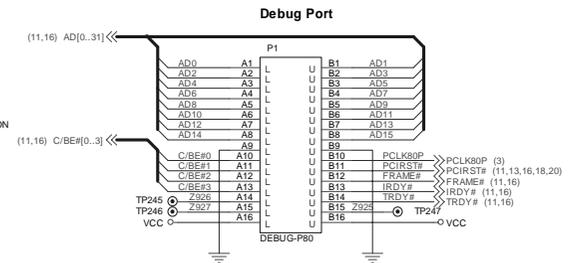
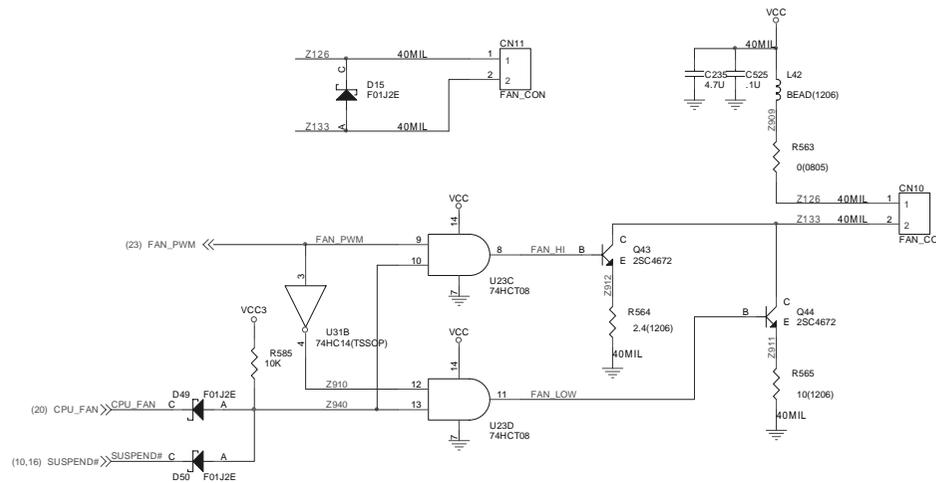
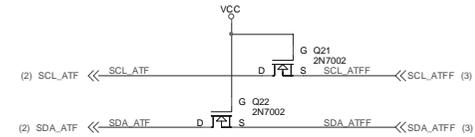
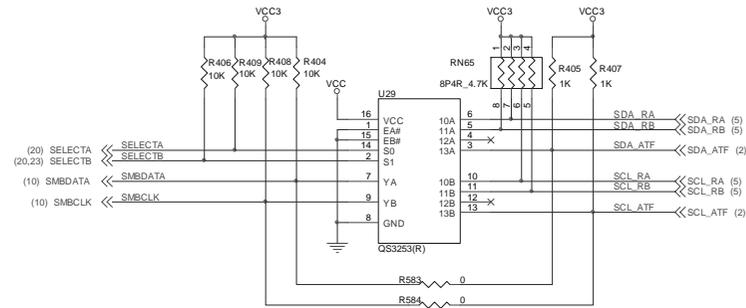
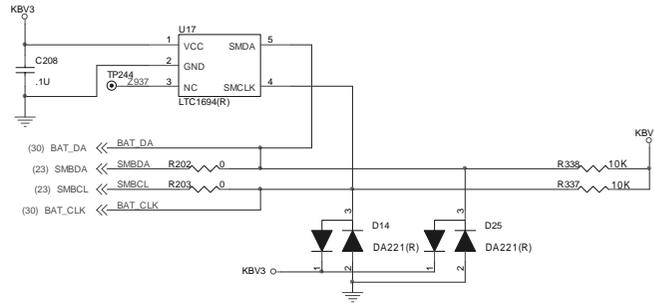


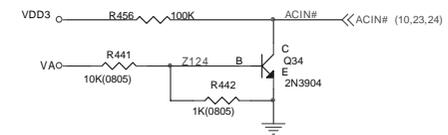
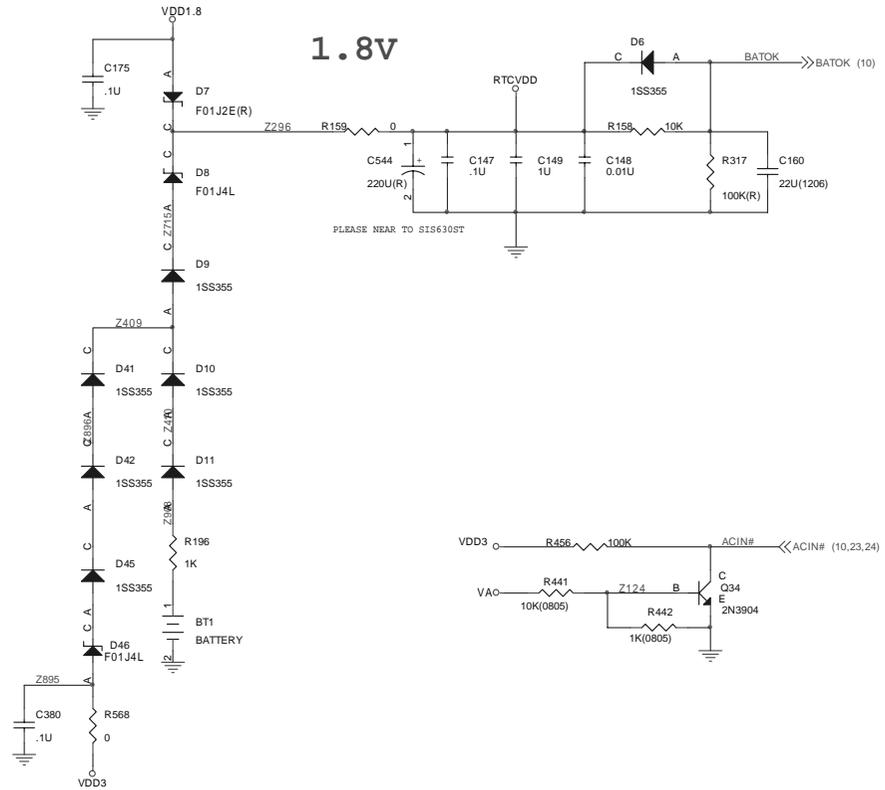
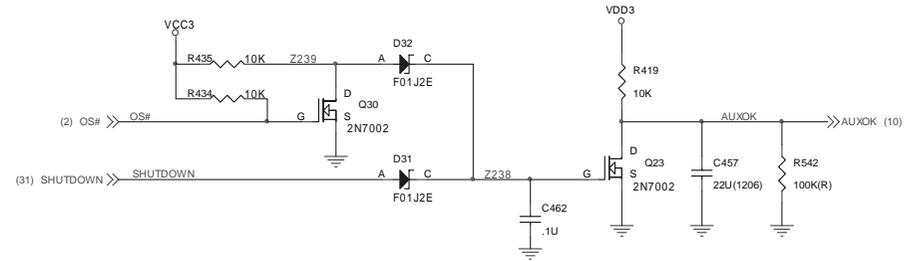
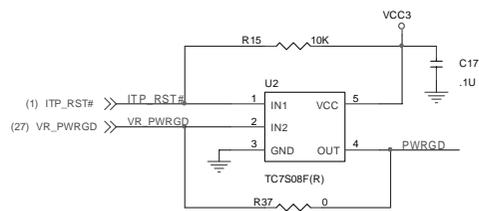
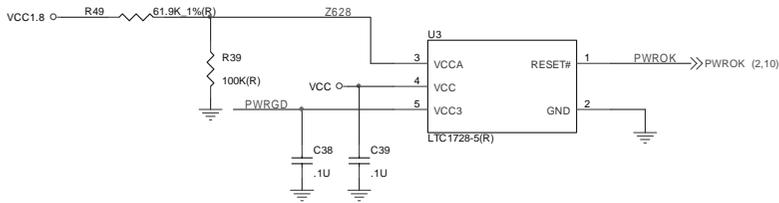
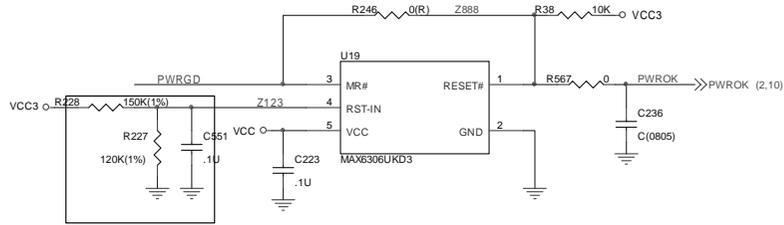




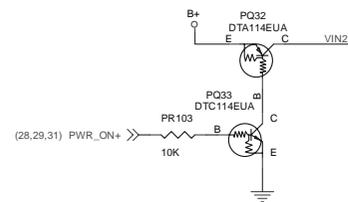
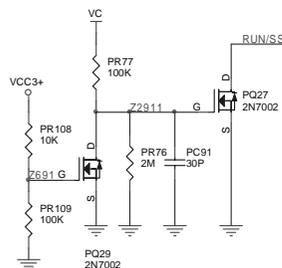
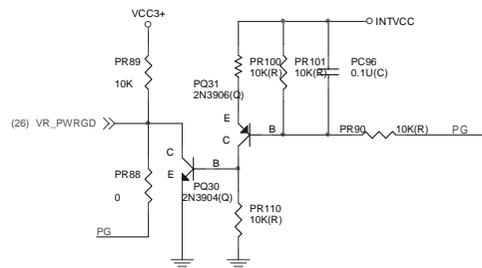
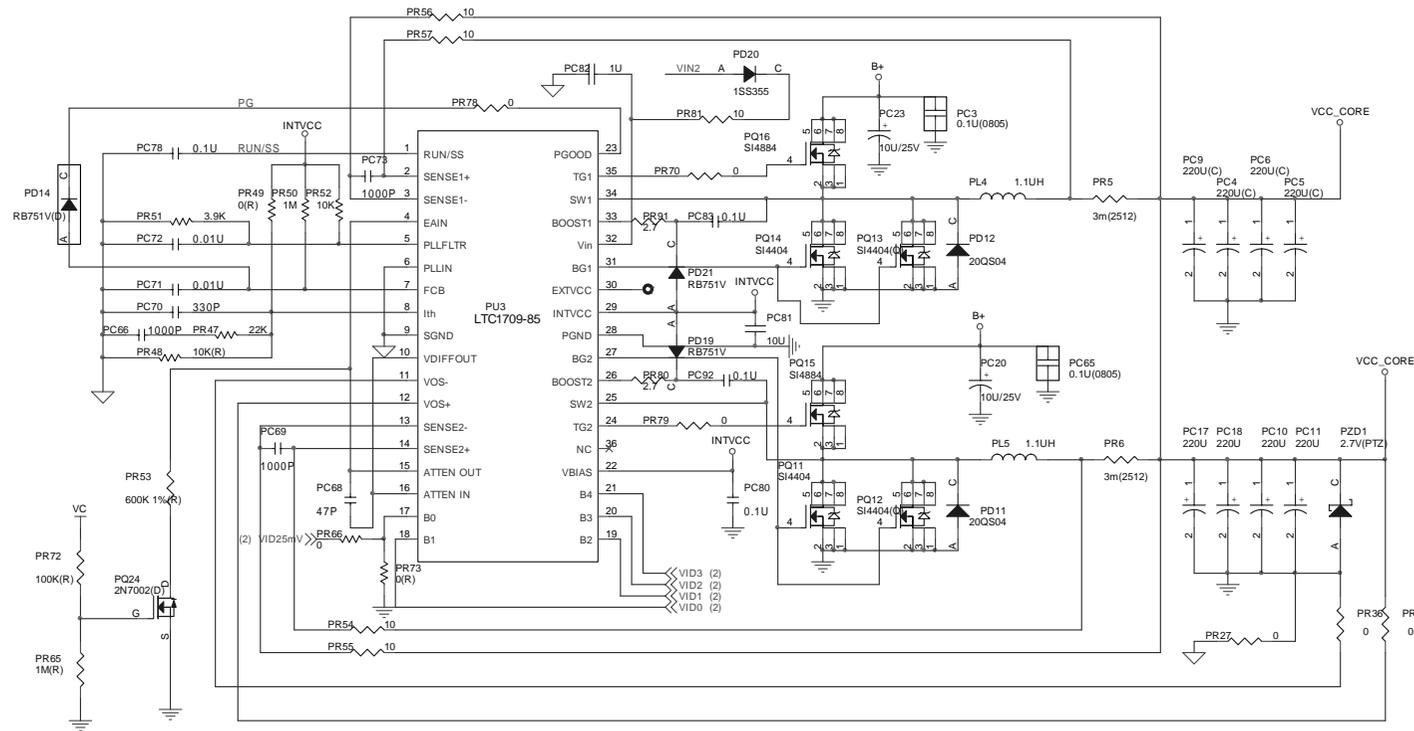


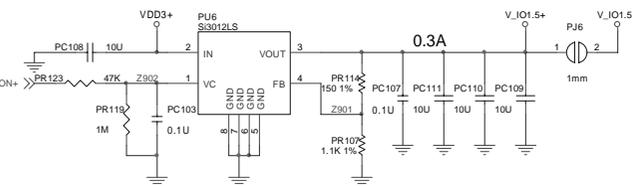
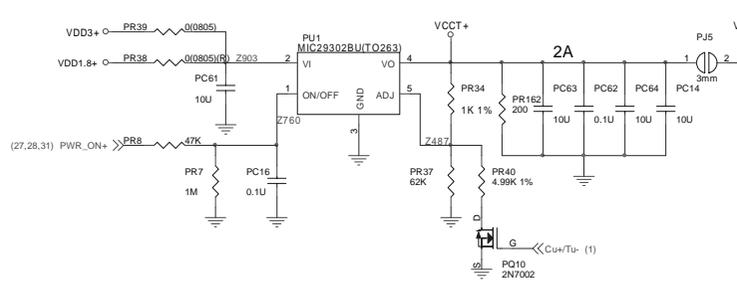
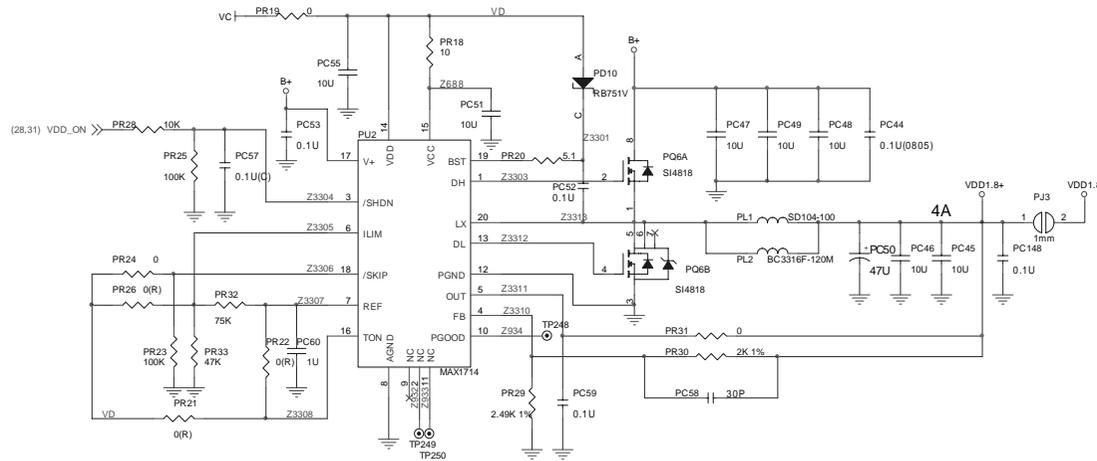
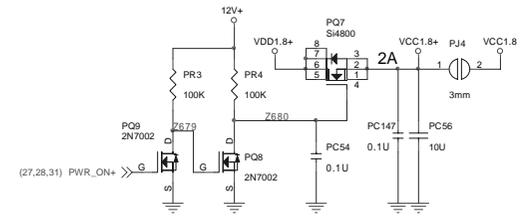
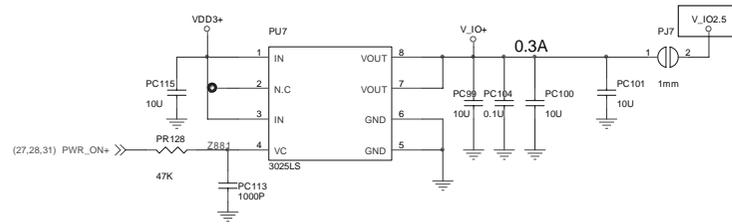
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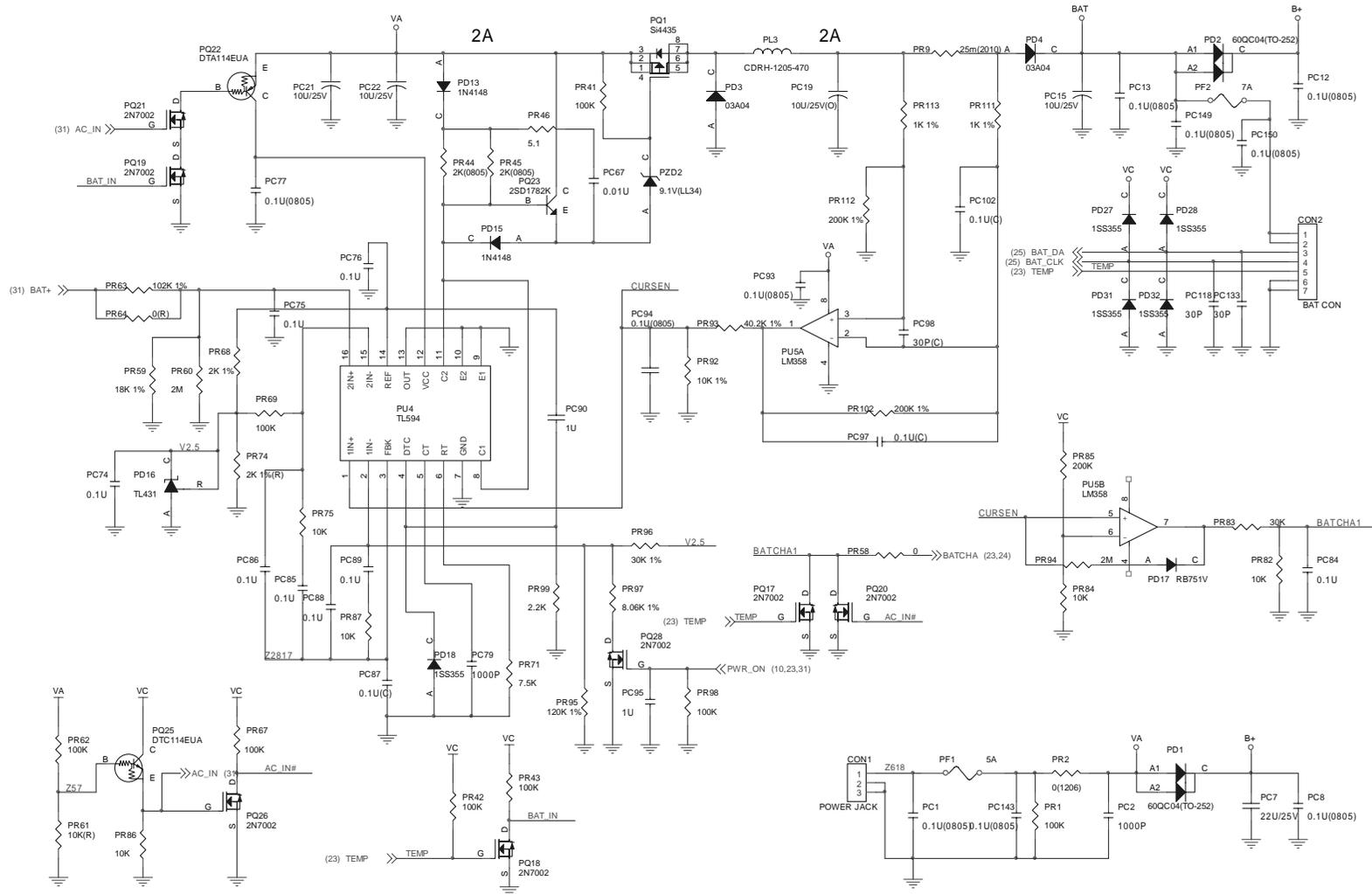




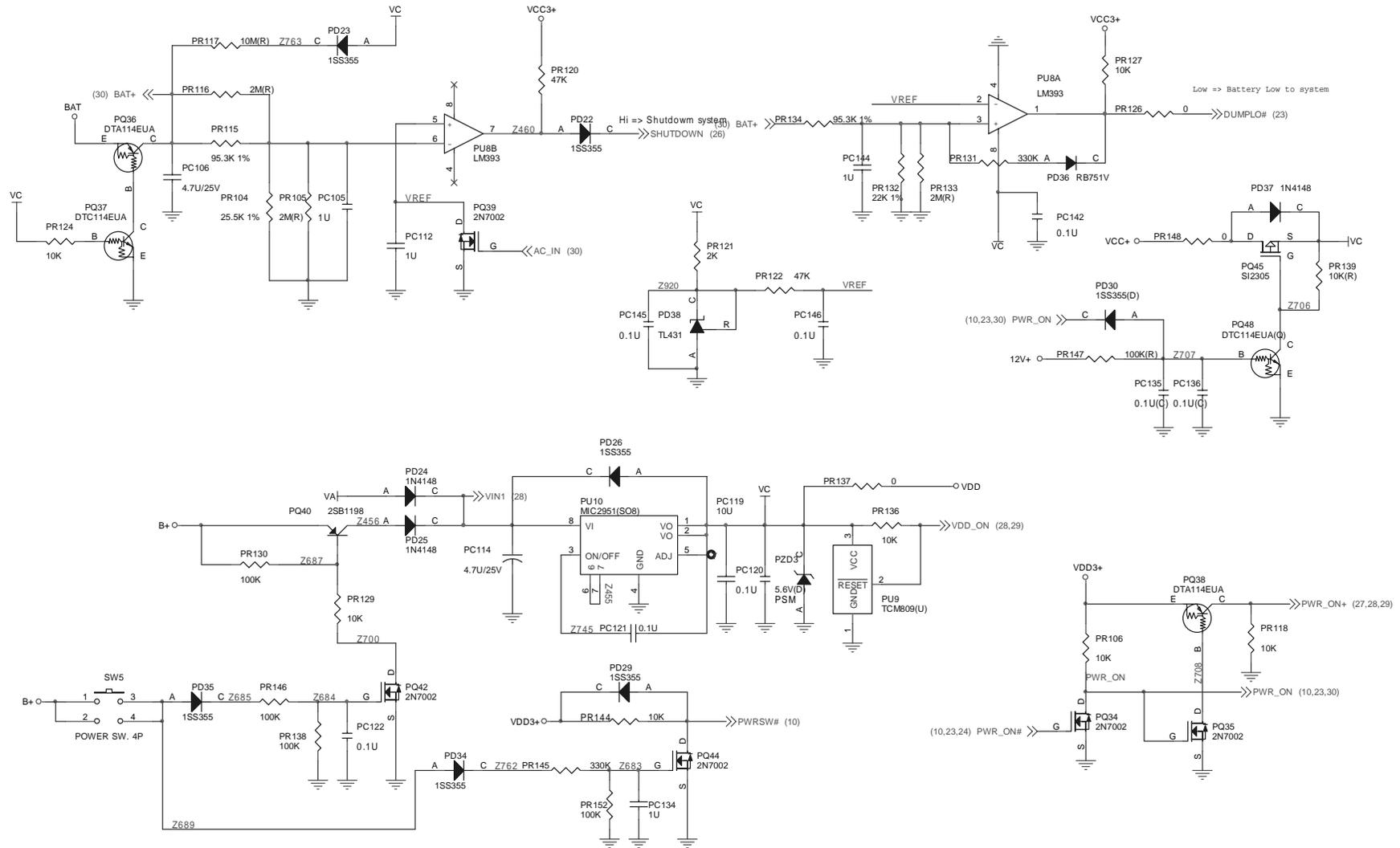
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Notes:

Appendix C: Switch Settings

Clock Settings (SW6)

CPU (FSB)	SDRAM	SW6-1	SW6-2	SW6-3	SW6-4	SW6-6
66	PC-133	OFF	OFF	OFF	OFF	ON
66	PC-100	OFF	OFF	OFF	OFF	OFF
100	PC-100	ON	OFF	OFF	OFF	OFF
100	PC-133	ON	OFF	ON	OFF	OFF
133	PC-133	ON	ON	ON	OFF	OFF

Panel ID Settings (SW7)

SIZE	BRAND	Model No.	SW7-1	SW7-2	SW7-3	SW7-4
13.3"	LG	LP133X7-C2CC	ON	ON	OFF	OFF
	ADT	L133X2-1	ON	ON	OFF	OFF
	UNIPAC	UP133X01	ON	ON	OFF	OFF
	HYUNDAI	HT13X14	ON	ON	ON	OFF
14.1"	LG	LP141X5	ON	ON	OFF	OFF
	ADT	L141X1	ON	ON	OFF	OFF
	CPT	CLAA141XB01	ON	ON	OFF	OFF
	CPT	CLAA141XC01	ON	ON	OFF	OFF
	UNIPAC	UP141X01	ON	ON	OFF	OFF
	HYUNDAI	HT14X13	ON	ON	ON	OFF

Appendix D: Updating the Flash ROM BIOS

To update the FLASH ROM BIOS you must:

- A: Download the BIOS update from the web site.
- B: Unzip the files onto a bootable Floppy Disk.
- C: Reboot your computer from the FDD.
- D: Use the flash tools to update the flash BIOS.
- E: Restart the computer booting from the HDD.

A: Download the BIOS update from the web site

- 1) Using your web browser go to www.clevo.com.tw
- 2) Choose Download from the menu bar at the top of the page.
- 3) In the Driver section select the model of your computer (**2200T/2700T series**) and the driver type (**BIOS**).
- 4) Select GO.
- 5) Click on 2xTRxxx.ZIP to download the BIOS files (including BIOS refresh tools).

B: Unzip the file onto a bootable floppy disk

Unzip the file you have just downloaded on to a bootable floppy disk.

(Some of the files you should see on this disk are: FP.EXE, FLASH.EXE and 2xTRxxx.BIN)

C: Reboot your computer from the FDD

With the bootable floppy disk containing the BIOS files in your Floppy Drive, restart the computer.

D: Use the flash tools to update the flash BIOS

After the computer has been booted from the floppy disk:

- 1) Go to the DOS prompt.
- 2) Type in the command:

A: FP 2xTRxxx.BIN

(This file was one of the zipped files and is now on your bootable floppy disk. For example, if you have downloaded file 2xTR103.ZIP then you should type in the command "FP 2xTR103.BIN)

- 3) Remove the floppy disk from the drive.

E: Restart the computer booting from the HDD

Your notebook is now running normally with the updated BIOS.