

SERVICE MANUAL

4200 / 4200M / 4600



Notebook Computer
4200/4200M/4600
Service Manual

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About this Manual

This manual is intended for service personnel who have completed sufficient training to undertake the 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 PC. The following information is included:

Chapter 1, Introduction, provides general information about the location of system elements and their specifications.

Chapter 2, Disassembly, provides step-by-step instructions for disassembling parts and subsystems and how to upgrade elements of the system.

Appendix A, Part Lists

Appendix B, Switches and Jumpers

Related Documents

You may also need to consult the following manual for additional information:

User's Manual on CD

This describes the notebook PC's features and the procedures for operating the computer and its ROM-based setup program. It also describes the installation and operation of the utility programs provided with the notebook PC.

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1: Introduction

Overview

This manual covers the information you need to service or upgrade the 4200/4200M/4600 Notebook Computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about drivers (e.g. VGA & audio) is also found in *User's Manual*. That manual is shipped with the computer.

Operating systems (e.g. *DOS*, *Windows 9x*, *Windows NT 4.0*, *Windows 2000*, *Windows XP*, *OS/2 Warp*, *UNIX*, etc.) have their own manuals as do application software (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The 4200/4200M/4600 notebook is designed to be upgradeable. See **“Disassembly” on page 2 - 1** for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the “” symbol.

The balance of this chapter reviews the computer's technical specifications and features.

System Specifications

Processor

- Intel® Mobile Pentium III-M 866 ~ 933MHz - 1.00 ~ 1.26 GHz
L2 Cache 512KB
- Intel® Mobile Celeron 733 ~ 933MHz
L2 Cache 256KB
- Supporting µFC-PGA Package
0.13 Micron (Tualatin Process Technology)

Core Logic

- Intel® 830MP “Almador-M” :
MCH= FW82830MP
ICH= MFW82801 (ICH3)

Memory

- Two SODIMM sockets
Supporting PC-133/PC-100 SDRAM
Expandable memory up to 1GB
64/128/256/512MB SO-DIMM modules supported

BIOS

- Phoenix BIOS
One 512KB Flash ROM

LCD

- 14.1” TFT XGA 1024x768, or 15.0” TFT SXGA+ 1400x1050

Display

- ATI M6-P Integrated AGP 4X
- Integrated 128-bit 2D / 3D Graphics Accelerator
 - Advanced HW Acceleration for DVD Playback (Motion Compensation engine and IDCT)
 - Fully DirectX 8 Compliant Graphics Engine
- External memory up to 32MB or 64MB of DDR SGRAM on board
- Supports dual-view Display Monitor

Audio

- AC'97 ver 2.2 Compliant Interface
 - 3D stereo enhanced sound system
 - Compatible Sound-Blaster PRO
 - 1 * SPDIF Digital output (5.1 CH) for DVD content
 - 1* built-in microphone and 1* Headphone out
 - 2 * speakers built-in

Storage

- 3.5" 3-mode FDD
- 2.5" 9.5 mm (h) HDD Easy changeable
- One Bay for optional CD-ROM (24X speed) 12.7mmH, OR 8X DVD-ROM (12.7mm), OR CD-RW, OR Combo
- Supports Master mode IDE, PIO mode 4 / ATA-33/66/100 (Ultra DMA)

PC Card Sockets

- PCMCIA 3.3V/5V/12V sockets, type II *2 or type III *1
- Supports Two CardBus slots (No Zoomed Video support available)

Keyboard

- Win key, Multi-Language

Introduction

Interface

- Built-in Touch pad (Scrolling Key functionality integrated)
- Four USB ports
- One IEEE 1394 port (Mini)
- One S-Video jack for TV output
- One parallel port (LPT1), support ECP / EPP
- Infrared file transfer, IrDA 1.1 FIR/SIR/ ASKIR
- External CRT monitor
- One PS/2 port support mouse or keyboard
- One headphone jack
- One microphone jack
- One SPDIF jack
- One RJ-11 jack for Modem
- One RJ-45 jack for LAN
- DC-in jack
- Built-in 3 instant keys, www, email, DVD Player
- One SONY standard Memory Stick
- One PANASONIC SD Memory

Communication

- Infrared transfer: 115.2K bps SIR/ 4M bps FIR, 1M operating distance, IrDA 1.1 compliant
- 10/100Mb Ethernet LAN built-in
- 802.11b Wireless LAN (Optional)
- 56K MDC MODEM with V.90 & V.92 compliant

Power Management

- Supports ACPI v1.0b
- Supports APM v1.2
- Supports suspend to RAM
- Supports suspend to disk
- Battery low suspend
- Resume from modem ring
- Resume from LAN ring

Power

- Full Range AC adapter AC in 100~240V, 50~60Hz, DC Output 20V, 3.25A.
- Support one removable Smart Li-Ion Battery 80W

Indicator

- LED indicator (HDD, Power on/ AC-In/SUSPEND, Battery Charging/Battery full, E-mail, Num Lock, Caps Lock, Scroll Lock)

EMC & Safety

- FCC Class B, CE, VCCI, C-TICK, BSMI, UL, CUL, TUV, CB

S/W Certificate

- MICROSOFT WHQL and WINKEY Logo, MACROVISION

Environmental Spec

- | | |
|-------------------------------|--------------------------|
| • Temperature | Relative Humidity |
| • Operating: 5° C ~ 35°C | Operating: 20% ~ 80% |
| • Non-Operating: -20°C ~ 60°C | Non-Operating: 10% ~ 90% |

Dimensions

- 312 (w) x272.7(d) x37.5 (h) mm w/14.1” LCD

Introduction

Weight

- 2.8kg w/o battery

Optional

- 4201 Lithium-Ion smart battery pack (12cell)
- 4202 DVD-ROM Drive Module 12.7mm (h)
- 4203 CD-RW Drive Module 12.7mm (h)
- 4204 Software DVD Player
- 4205 Software RW Writer
- 4206 802.11b Wireless LAN card
- 2005 Car Adapter

External Locator - Top View

Figure 1 - 1
Top View



1. Cover Latch
2. LED Power Indicators
3. LCD Display
4. Speakers
5. Three Hot-Key buttons
6. LED Status Indicators
7. Power Button
8. Keyboard
9. TouchPad and Buttons
10. Color Cover (changeable)
11. Microphone (built-in)

Introduction

External Locator - Left & Right Side Views

Figure 1 - 2
Left View

1. CD or DVD Label Indicator
2. Busy Indicator
3. Open Button
4. Emergency Eject Hole



Figure 1 - 3
Right View

1. Microphone-In Jack
2. Speaker-Out Jack
3. S/PDIF Port
4. Sony Memory Stick Port
5. Secure Digital Port
6. Floppy Disk Drive
7. Floppy Disk Eject Switch
8. Dual PC Card Slots
9. PC Card Socket Eject Buttons
10. IEE 1394 Port
11. Dual USB Ports
12. Vent



External Locator - Right Side & Bottom Views

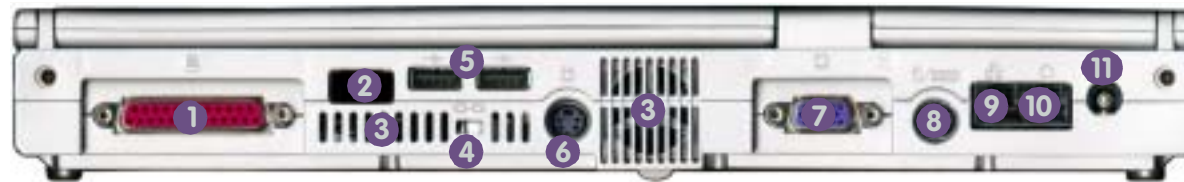


Figure 1 - 4
Right Side

1. Parallel Port
2. Infrared Port
3. Vent
4. Security Lock
5. Dual USB Ports
6. S-Video Output Connector
7. Exrternal Monitor CRT Port
8. PS/2 Type Port
9. LAN Jack
10. Phone Jack
11. DC-In Jack



Figure 1 - 5
Bottom View

1. CPU Cover
2. Fan Outlet
3. CD Device Release Latch
4. Hard Disk Drive Cover
5. Battery Release Latches
6. Battery

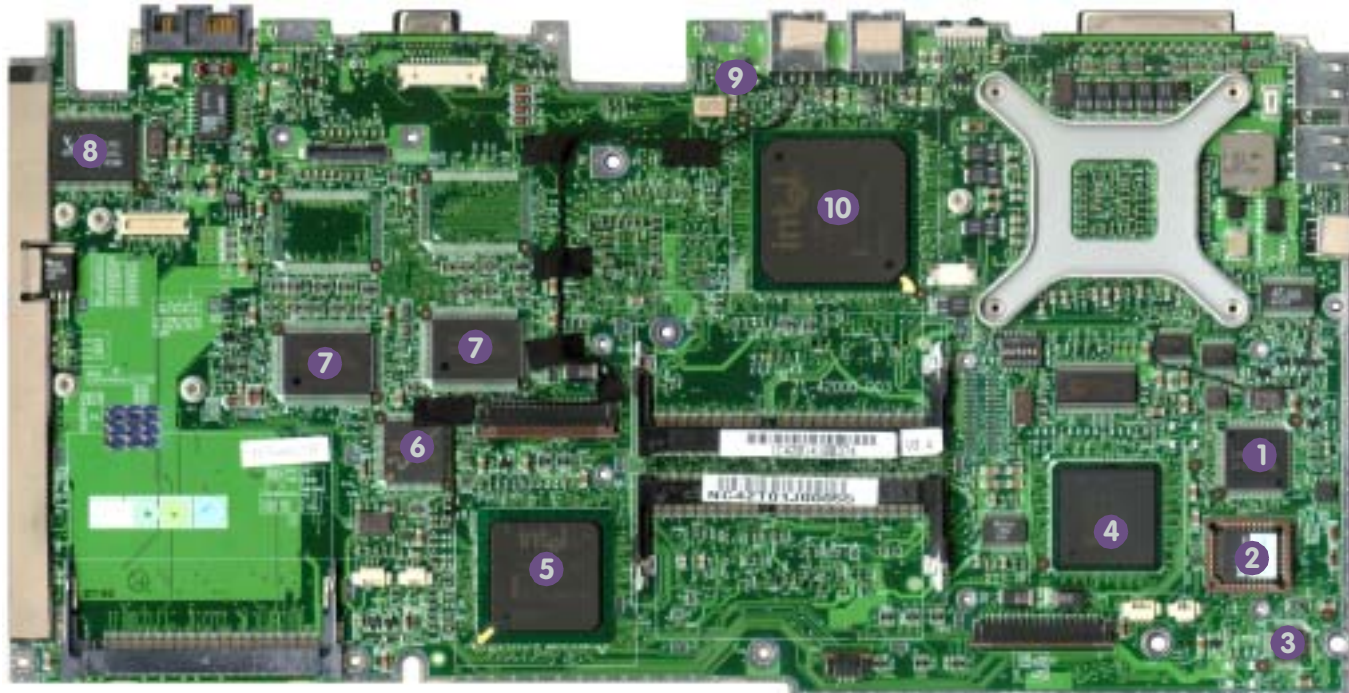
Introduction

Figure 1 - 6
Mainboard Overview - Top
Key Parts

1. Mini-IEEE 1394 controller
2. Flash BIOS ROM
3. Smart I/O W83518D media reader controller
4. Ricoh Cardbus PCMCIA controller
5. Southbridge Intel ICH 3
6. LPC H8 Keyboard controller
7. On-board video memory
8. LAN Controller RTL8139CL
9. Power Button
10. Northbridge Intel MCH 830MP

Mainboard Overview - Top

Key Parts



Mainboard Overview - Bottom Key Parts

Figure 1 - 7
**Mainboard Overview - Bottom
Key Parts**

1. ATI Mobility Radeon Graphics controller



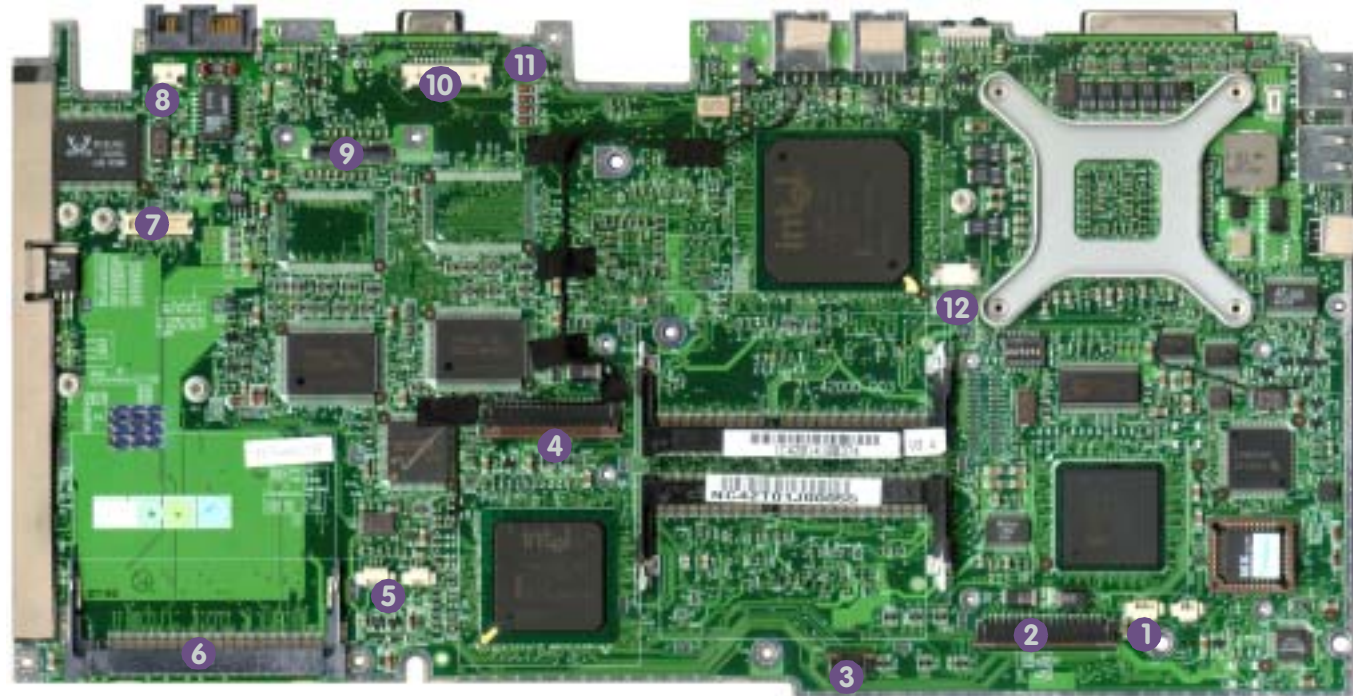
Introduction

Figure 1 - 8
Mainboard Overview - Top
Cable Connectors & Switches

1. Internal speaker connectors (JSPK1 & J8PK2)
2. FDD connector
3. TouchPad connector (JTP1)
4. Keyboard connector (JINTKB1)
5. Battery connectors (JBAT1 & CN3)
6. Wireless LAN socket (CN2)
7. Modem socket
8. Modem connector (JModem1)
9. LCD socket (JLCD1)
10. Inverter socket (JINV1)
11. Fan socket (JFAN1)
12. LED cover connector (JLED1)

Mainboard Overview - Top

Cable Connectors and Switches



Mainboard Overview - Bottom Cable Connectors and Switches



Figure 1 - 9
**Mainboard Overview - Bottom
Cable Connectors & Switches**

1. CD device socket
2. Power board sockets (CN4 & CN5)
3. HDD Connector (CON2)
4. Audio board socket (JAUDIO1)
5. PCMCIA socket (SLOT1)
6. CPU Socket (no CPU installed)
7. Fan Socket (JFAN2)


2: Disassembly



Overview

This chapter provides step-by-step instructions for disassembling parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

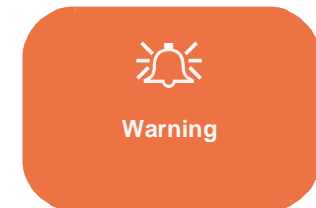
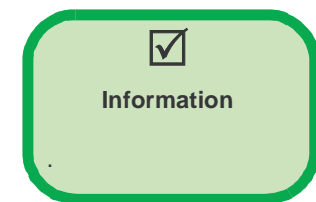
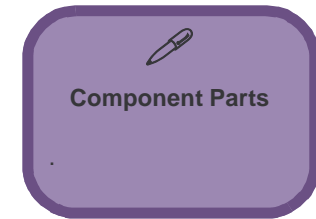
We suggest you completely review any procedure before you take the computer apart.

Procedures such as upgrading/replacing the RAM, CD device and hard disk are included in the User's Manual but are repeated here for your convenience.

To make the disassembly process easier each section may have a box in the page margin. Information contained under the figure # will give a synopsis of the sequence of procedures involved in the disassembly procedure. A box with a  lists the relevant parts you will have after the disassembly process is complete. **Note:** The parts listed will be for the disassembly procedure listed ONLY, and not any previous disassembly step(s) required. Refer to the part list for the previous disassembly procedure. The amount of screws you should be left with will be listed here also.

A box with a  will provide any possible helpful information. A box with a  contains warnings.

An example of these types of boxes are shown in the sidebar.



Disassembly

NOTE: All disassembly procedures assume that the system is turned **OFF**, and disconnected from any power supply (the battery is removed too).

Maintenance Tools

The following tools are recommended when working on the notebook PC:

- M3 Philips-head screwdriver
- M2.5 Philips-head screwdriver (magnetized)*
- M2 Philips-head screwdriver
- Small flat-head screwdriver
- Pair of needle-nose pliers
- Anti-static wrist-strap

Connections

Connections within the computer are one of four types:

Locking collar sockets for ribbon connectors	To release these connectors, use a small flat-head screwdriver to gently pry the locking collar away from its base. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Pressure sockets for multi-wire connectors	To release this connector type, grasp it at its head and gently rock it from side to side as you pull it out. Do not pull on the wires themselves. When replacing the connection, do not try to force it. The socket only fits one way.
Pressure sockets for ribbon connectors	To release these connectors, use a small pair of needle-nose pliers to gently lift the connector away from its socket. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Board-to-board or multi-pin sockets	To separate the boards, gently rock them from side to side as you pull them apart. If the connection is very tight, use a small flat-head screwdriver - use just enough force to start.

Maintenance Precautions

The following precautions are a reminder. To avoid personal injury or damage to the computer while performing a removal and/or replacement job, take the following precautions:

1. **Don't drop it.** Perform your repairs and/or upgrades on a stable surface. If the computer falls, the case and other components could be damaged.
2. **Don't overheat it.** Note the proximity of any heating elements. Keep the computer out of direct sunlight.
3. **Avoid interference.** Note the proximity of any high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage components and/or data. You should also monitor the position of magnetized tools (i.e. screwdrivers).
4. **Keep it dry.** This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
5. **Be careful with power.** Avoid accidental shocks, discharges or explosions.
 - Before removing or servicing any part from the computer, turn the computer off and detach any power supplies.
 - When you want to unplug the power cord or any cable/wire, be sure to disconnect it by the plug head. Do not pull on the wire.
6. **Peripherals** – Turn off and detach any peripherals. **Beware of static discharge.** ICs, such as the CPU and main support chips, are vulnerable to static electricity. Before handling any part in the computer, discharge any static electricity inside the computer. When handling a printed circuit board, do not use gloves or other materials which allow static electricity buildup. We suggest that you use an anti-static wrist strap instead.
7. **Beware of corrosion.** As you perform your job, avoid touching any connector leads. Even the cleanest hands produce oils which can attract corrosive elements.
8. **Keep your work environment clean.** Tobacco smoke, dust or other air-borne particulate matter is often attracted to charged surfaces, reducing performance.
9. **Keep track of the components.** When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

Cleaning

Do not apply cleaner directly to the computer, use a soft clean cloth.

Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.

Disassembly Steps

The following table lists the disassembly steps, and on which page to find the related information. **PLEASE PERFORM THE DISASSEMBLY STEPS IN THE ORDER INDICATED.**

To remove the hard disk drive assembly:

- 1.Remove the battery page 2 - 9
- 2.Remove the hard disk drive assembly page 2 - 10

To remove the keyboard:

- 1.Remove the battery page 2 - 9
- 2.Remove the keyboard page 2 - 11

To remove the system memory:

- 1.Remove the battery page 2 - 9
- 2.Remove the keyboard page 2 - 11
- 3.Remove the system memory page 2 - 12

To remove the CD Device:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13

To remove the CPU:

- 1.Remove the battery page 2 - 9
- 2.Remove the CPU page 2 - 14

To remove the modem:

- 1.Remove the battery page 2 - 9
- 2.Remove the keyboard page 2 - 11
- 3.Remove the modem page 2 - 15

To remove the Top Case and LCD:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16

To remove the Inverter:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the inverter page 2 - 18



Modem Cable

The procedure described here is sufficient to enable the removal of the modem module itself.

If the modem **cable** also needs to be removed, or a new modem module and cable inserted, then the top case must also be removed to access the cable connector.

See “**To remove the Top Case and LCD:**” on page 2 - 5.

To remove the floppy disk drive assembly:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19

To remove the audio board:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19
- 9.Remove the bottom case and audio board page 2 - 20

To remove the fan unit:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19
- 9.Remove the bottom case page 2 - 20
- 10.Remove the fan unit page 2 - 21

To remove the PCMCIA assembly:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19
- 9.Remove the bottom case page 2 - 20
- 10.Remove the fan unit page 2 - 21
- 11.Remove the PCMCIA assembly page 2 - 21

To remove the power board:

- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19
- 9.Remove the bottom case page 2 - 20
- 10.Remove the fan unit page 2 - 21
- 11.Remove the power board page 2 - 22

To remove the mainboard:

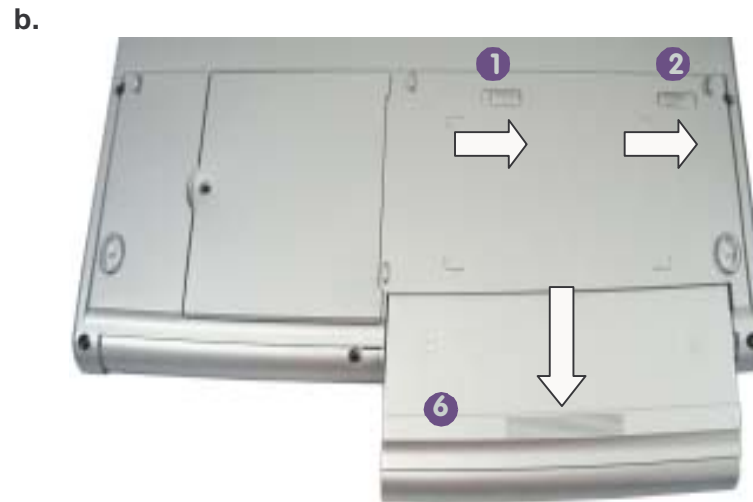
- 1.Remove the battery page 2 - 9
- 2.Remove the CD Device page 2 - 13
- 3.Remove the hard disk drive assembly page 2 - 10
- 4.Remove the keyboard page 2 - 11
- 5.Remove the system memory page 2 - 12
- 6.Remove the CPU page 2 - 14
- 7.Remove the top case and LCD page 2 - 16
- 8.Remove the floppy disk drive page 2 - 19
- 9.Remove the bottom case and audio board page 2 - 20
- 10.Remove the fan unit page 2 - 21
- 11.Remove the PCMCIA assembly page 2 - 21
- 12.Remove the power board page 2 - 22
- 13.Remove the mainboard page 2 - 22

Remove the Battery

1. With the computer shut down and on a level surface, raise the LCD cover.
2. Remove the palm rest by applying gentle upward pressure with your fingers close to the area around the **left Alt** key, and the **right Ctrl** key (**Figure 2 - 1-A**).
3. Turn the computer over and locate the battery release latches **1** and **2** in (**Figure 2 - 1-a**).
4. Latch **1** should slide to the right and remain in place. Hold latch **2** in place as you slide the battery out towards you.
5. To replace the palm rest, slide it back in to place, and then apply a slight downward pressure to points **3** and **4** in order to snap it gently back down.

Figure 2 - 1
Battery Removal Sequence

- a. Palm rest removal
- b. Battery removal.



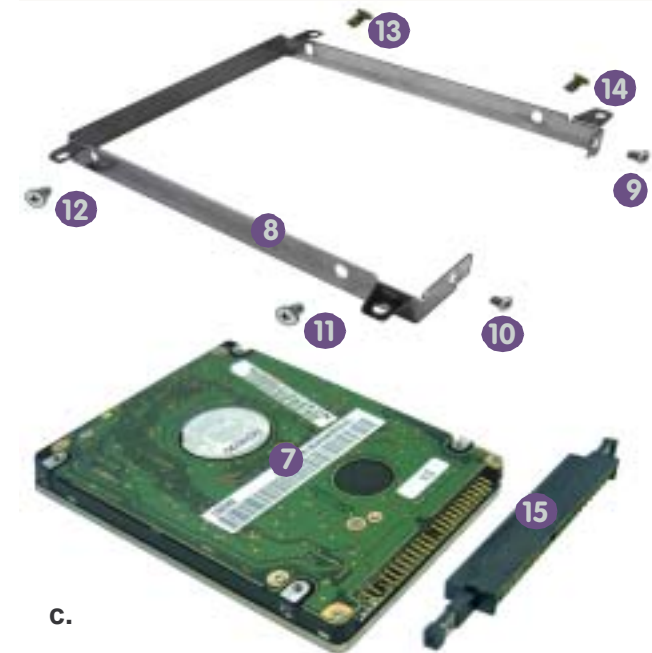
Disassembly

Figure 2 - 2 Hard Disk Removal Sequence

- Remove the cover and screws.
- Lift the HDD assembly out.
- Remove the HDD from the HDD assembly.

Remove the Hard Disk Drive Assembly

- Turn the computer over.
- Remove screw **1** (**Figure 2 - 2a**) from the hard disk cover **2**, and remove the cover.
- Remove the screws **3-6** (**Figure 2 - 2a**) which hold the HDD assembly in place.
- Lift the HDD assembly out of the case (**Figure 2 - 2b**).
- Remove the HDD from the bracket **8** by removing screws **9-14** in(**Figure 2 - 2c**) from the bracket and connector **15**.



- 2. HDD cover module
- 7. HDD
- 8. HDD assembly
- 15. HDD connector

Remove The Keyboard

1. Turn off the computer.
2. Use a small screwdriver or a straightened paper clip to press in the latches **1-4** (**Figure 2 - 3a**) to release the keyboard.
3. Elevate the keyboard from its normal position.
4. Carefully lift the keyboard up and out, making sure not to bend or twist the keyboard ribbon cable **5** (**Figure 2 - 3b**).
5. Disconnect the keyboard ribbon cable from the locking collar socket **6** (**Figure 2 - 3b**).

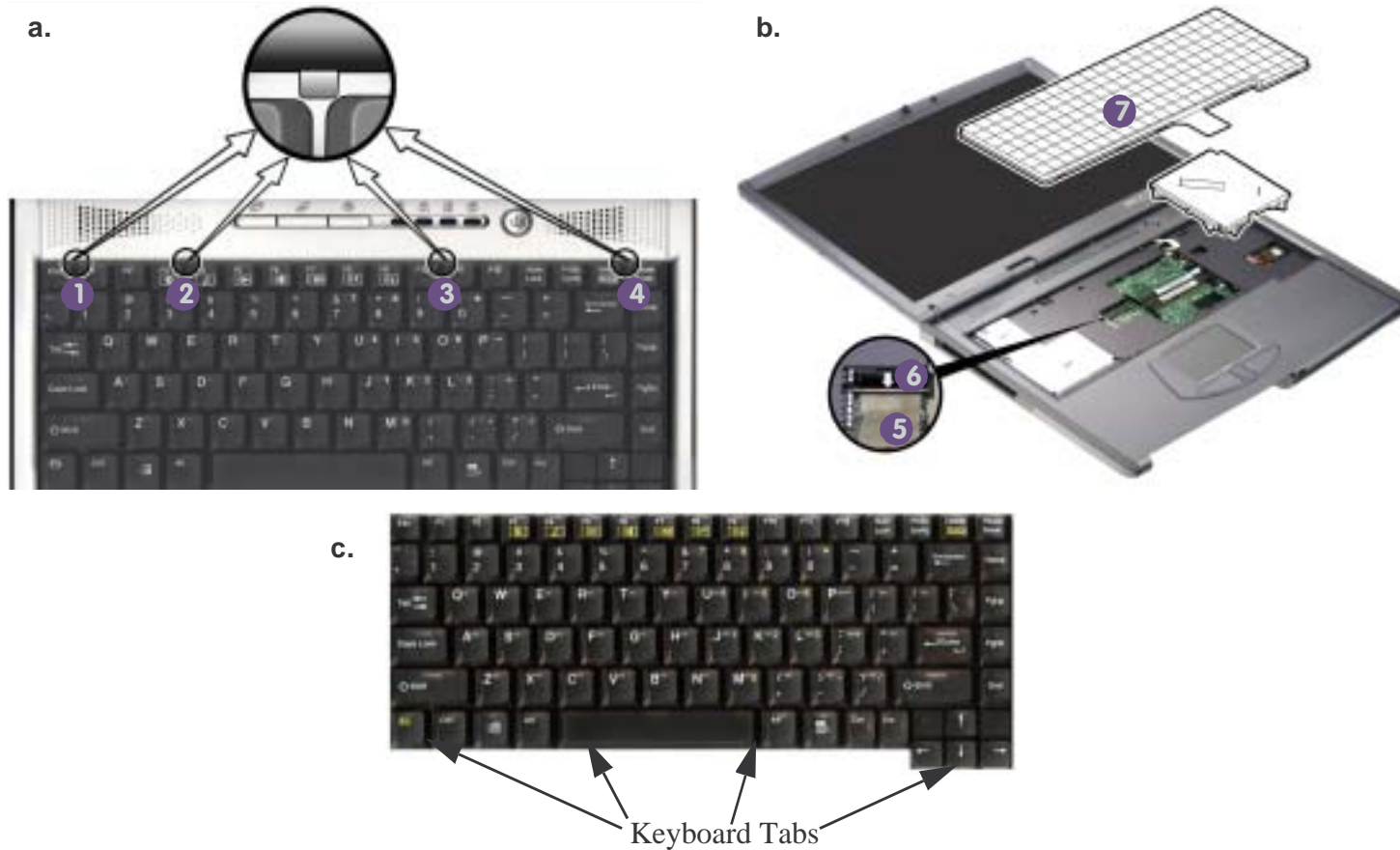


Figure 2 - 3
Keyboard Removal Sequence

- a. Press the four latches to release the keyboard.
- b. Lift the keyboard out and disconnect the cable from the locking collar.



Re-Inserting the Keyboard

When re-inserting the keyboard firstly align the four keyboard tabs (**Figure 2 - 3c**) at the bottom of the keyboard with the slots in the case.



- 5. Ribbon cable
- 7. Keyboard

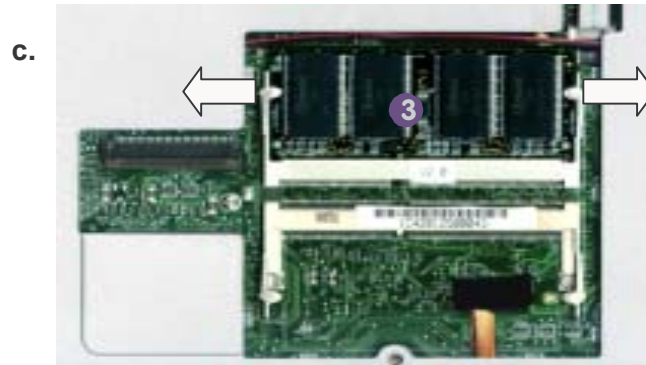
Disassembly

Figure 2 - 4 Memory Removal Sequence

- Lift away the RAM shielding module.
- Locate the memory sockets.
- Pull the latch(es) to release the module(s).
- When the module pops up, lift it out.

Removing The System Memory

- Lift the RAM bay shielding 1 (Figure 2 - 4a) up off the memory sockets 2 (Figure 2 - 4b).
- Gently pull the two latches at the side of the memory socket outwards, as indicated in Figure 2 - 4c, to release the module.
- The memory module will pop-up (Figure 2 - 4d) and can be lifted out.



2. Disassembly



- RAM bay shielding module
- Memory module(s)



Contact Warning

Be careful not to touch the metal pins on the module's connecting edge. Even the cleanest hands have oils which can attract particles, and degrade the module's performance.

Remove the CD-Device

1. Turn off the computer.
2. Turn the computer over.
3. Remove the screw from the CD-Device release latch **1** (Figure 2 - 5a)
4. Apply pressure to the sliding release latch **1** to slide the CD-Device **2** (Figure 2 - 5b) out of the bay..



Figure 2 - 5
**CD Device
Removal
Sequence**

- a. Remove the screw from the CD Device.
- b. Apply pressure to the sliding release latch to slide the device out of the bay.



2. CD device

- 1 Screw

Figure 2 - 6 Processor Removal Sequence

- Remove the screws from the CPU cover.
- Loosen the four heat sink screws in the order indicated.
- Remove the heat sink.
- Unlock the CPU.
- Remove the CPU.



Caution

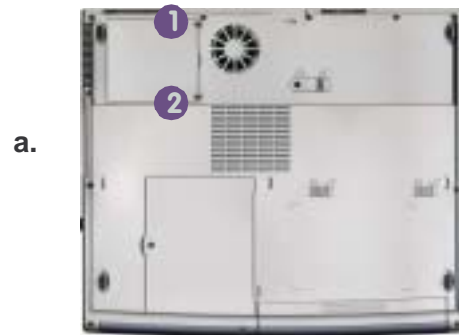
The heat sink, and CPU area in general, contains parts which are subject to high temperatures - Please allow the area time to cool before removing these parts).



- CPU cover
- Heat sink
- CPU
- 2 Screws

Remove the CPU

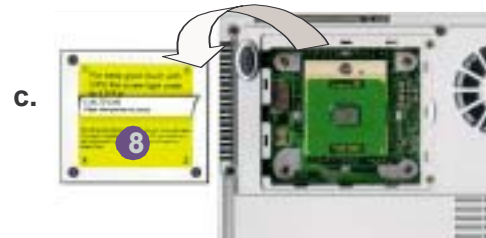
- Turn off the computer and turn it over.
- Remove the screws **1** & **2** (**Figure 2 - 6a**) from the CPU cover and remove the cover **3** (**Figure 2 - 6b**).
- Loosen the four screws from the heat sink in the order **4, 5, 6, 7** (**Figure 2 - 6b**) and remove the heat sink **8** (**Figure 2 - 6c**).
- Use a small screwdriver to release the lock holding down the CPU by giving it a counter-clockwise turn until the indicator **9** (**Figure 2 - 6d**) points to the unlocked symbol **10** (**Figure 2 - 6e**).
- Remove the CPU **11** (**Figure 2 - 6f**) from the socket. (**Note:** The thermal pad affixed on the heat sink can not be reused. If you are upgrading the CPU, or changing the CPU, you must use a new thermal pad to avoid overheating).



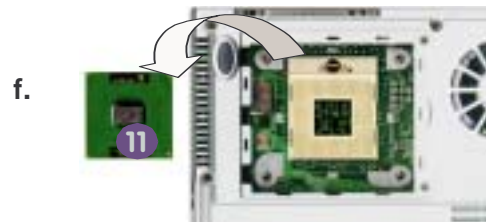
a.



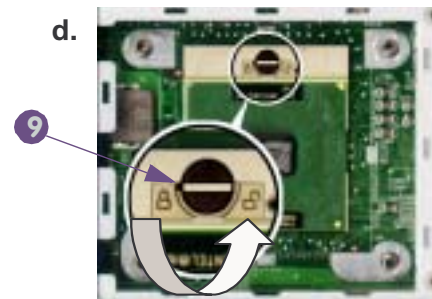
b.



c.



f.



d.

CPU Locked



e.

CPU Unlocked

Remove the Modem

1. Remove the modem bay shield **1** (Figure 2 - 7a) covering the modem bay by removing the screws **2-3** (Figure 2 - 7a).
2. Remove screw **4**(Figure 2 - 7b) holding the modem cable place.
3. Release the modem cable **5** (Figure 2 - 7b) and lift the modem **6** (Figure 2 - 7c) from the board.

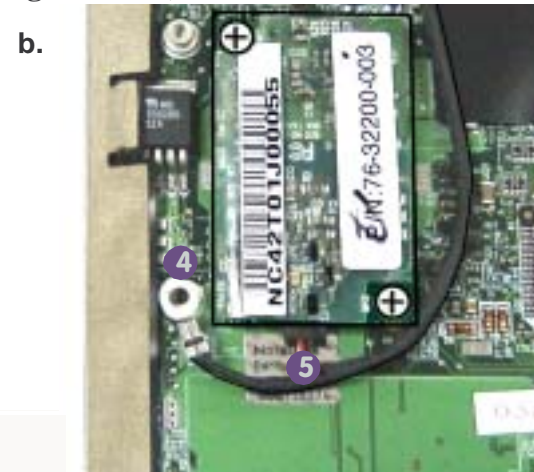


Figure 2 - 7
Modem Removal Sequence

- a. Remove the shielding module covering the modem.
- b. Unscrew the screws holding the modem in place.
- c. Release the modem cable and lift out the modem.

Modem Cable

The procedure described here is sufficient to enable the removal of the modem module itself.
If the modem **cable** also needs to be removed, or a new modem module and cable inserted, then the top case must also be removed to access the cable connector (“**To remove the Top Case and LCD:**” on page 2 - 5).

1.Modem bay shield
6.Modem module

- 3 Screw

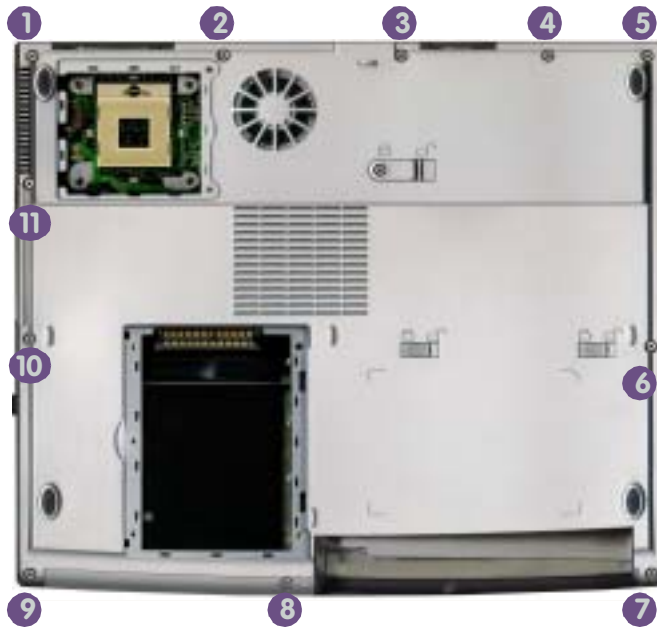
Disassembly

Figure 2 - 8 Top Case and LCD Removal Sequence

- a. Remove the screws from the bottom of the case.
- b. Remove the screws from the top of the case, disconnect the speaker cables and LED cover module and LED cover cable.

Remove the Top Case and LCD

1. Refer to **page 2 - 5** to make sure you have removed all the necessary components.
2. Turn the computer over and remove the screws **1-11 (Figure 2 - 8a)** from the bottom of the case.
3. Turn the computer back over and remove the screws **12-16 (Figure 2 - 8b)** from the top of the case.
4. Disconnect the 2 speaker cables from audio sockets **19 (Figure 2 - 8b)**, and disconnect the ribbon cable **18 (Figure 2 - 8b)** connecting the LED cover module and board..
 - a.



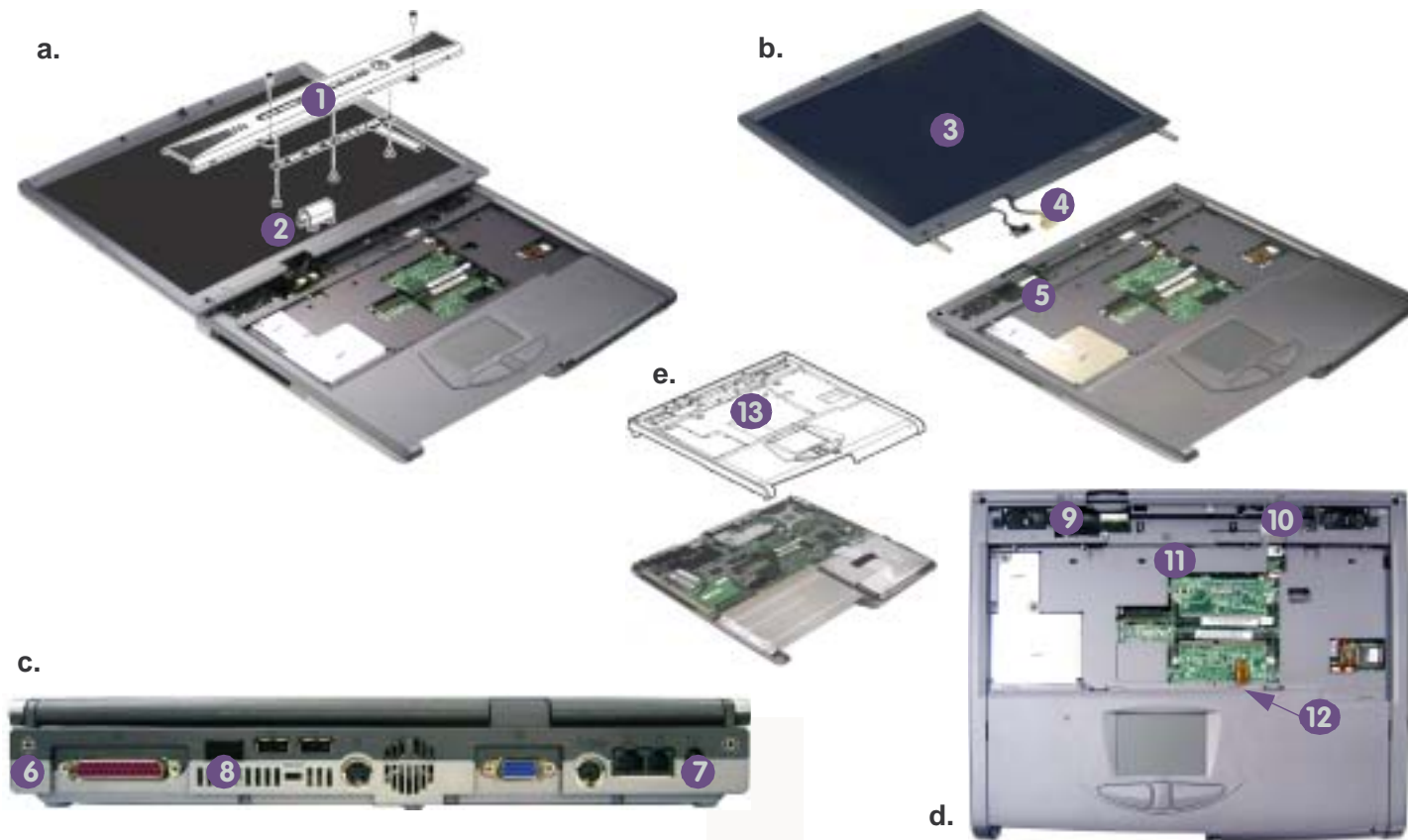
- 17 Screws

5. Slide the LED cover module and board **1** (Figure 2 - 9a) towards you, and lift it up and away (Note: You do not need to separate the LEDs held to the underside of the board by three screws).
6. Remove the LCD cable cover **2** (Figure 2 - 9a) by gently squeezing it as you lift it up.
7. Disconnect cable set **4** (Figure 2 - 9b) from the LCD to the mainboard at point **5** (Figure 2 - 9b).
8. Remove screws **6 & 7** (Figure 2 - 9c) at the rear of computer and carefully lift the LCD up and out of the main assembly.
9. Remove the remaining three screws **9 & 11** (Figure 2 - 9d) from the top of the case.
10. Carefully raise the top of the case (be careful not to lose the infrared lens cover **8** in Figure 2 - 9c) just enough to enable you to disconnect the touchpad cable **12** (Figure 2 - 9d) from the socket on the mainboard.
11. Ease the top case slowly up and away from the main assembly.

Figure 2 - 9

Top Case Removal Sequence (cont.)

- a. Remove the LED cover module and LCD cable cover.
- b. Disconnect the cables from the LCD.
- c. Unscrew the 2 screws from the rear of the computer and remove the LCD.
- d. Unscrew all the remaining screws and raise the top case to allow you to disconnect the touchpad cable.
- e. Remove the top case.



✍

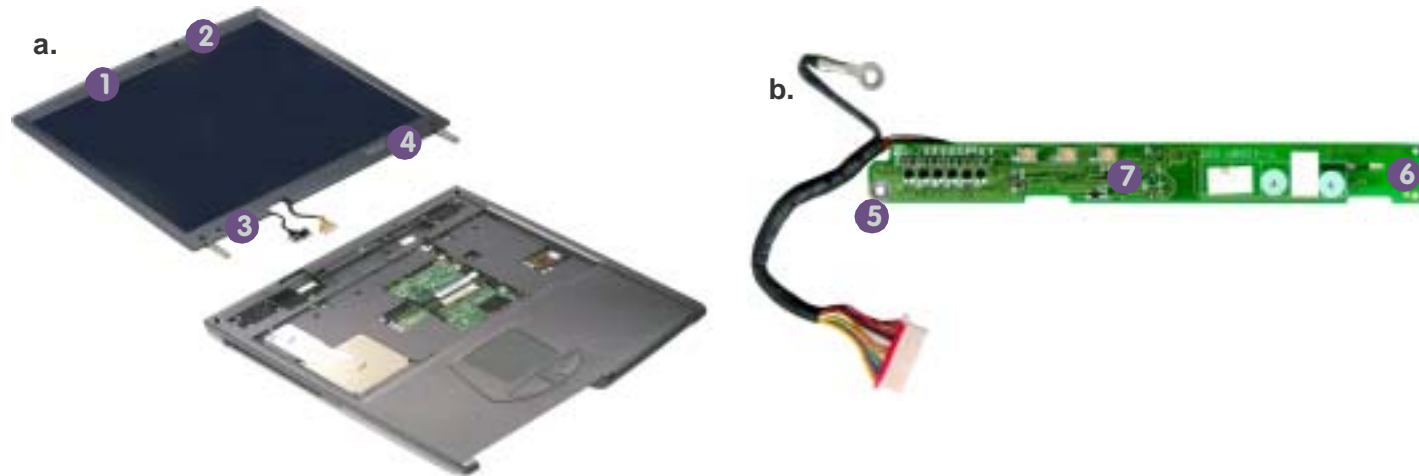
- 1. LED cover module
- 2. LCD cable cover
- 3. LCD
- 8. Infrared Lens cover
- 13. Top case

- 5 Screws

Disassembly

Figure 2 - 10 Inverter Removal Sequence

- a. Remove the rubber covers and screws, then separate the front cover from the back.
 - b. Unscrew the screw from the inverter board, and disconnect the cable, then remove the inverter board.
1. Refer to **page 2 - 5** to make sure you have removed all the necessary components.
 2. Remove the rubber covers **1-4** (**Figure 2 - 10a**) and the screws under them.
 3. Run your finger around the middle of the frame to carefully unsnap the front cover module from the back.
 4. Remove the screw holding the inverter board at point **5** (**Figure 2 - 10b**).
 5. Disconnect the cable from the inverter board at point **6** (**Figure 2 - 10b**) and remove the inverter board.



LCD front cover
module

7. Inverter board

- 4 rubber covers
- 5 Screws



LCD Disassembly

For further details of the disassembly of the LCD itself refer to “**Part List Illustration Location**” on page 1 - 2.

Remove the Floppy Disk Drive Assembly

1. Remove screws 1-3 (Figure 2 - 11) from the floppy disk assembly.
2. Remove the ribbon cable from the socket and lift out the floppy disk drive assembly.

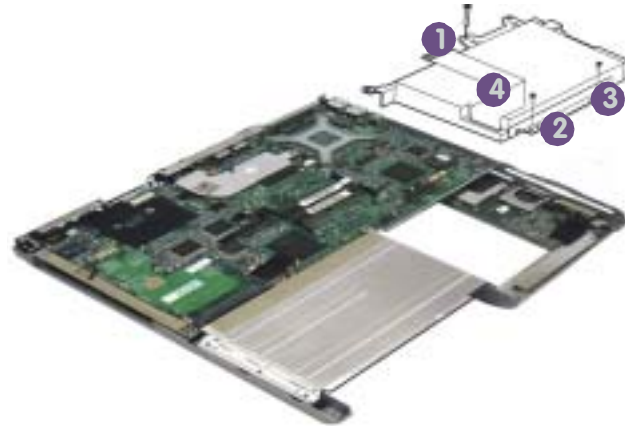


Figure 2 - 11
Floppy Disk Drive Removal Sequence

Unscrew the screws and remove the floppy drive assembly.



4. Floppy disk drive assembly

- 3 Screws

Remove the Battery Bracket

1. Remove screws 4-7 (Figure 2 - 12).
2. Remove the battery bracket.

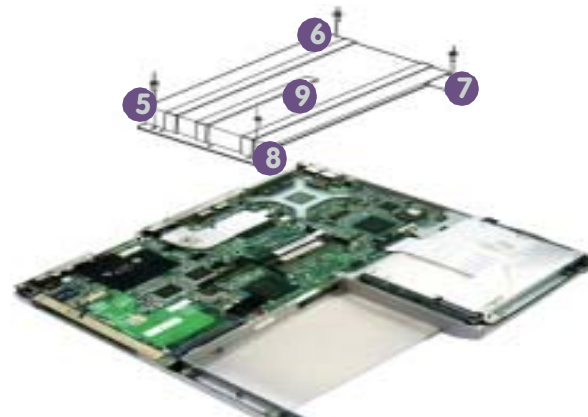


Figure 2 - 12
Battery Bracket Removal Sequence

Unscrew the screws and remove the battery bracket.



9. Battery bracket

- 4 Screws

Disassembly

Figure 2 - 13 Bottom Case and Audio Board Removal Sequence

- Remove the screws from the bottom of the case, and release the connectors.
- Raise the board away from the bottom of the case.
- Separate the audio board from the mainboard.

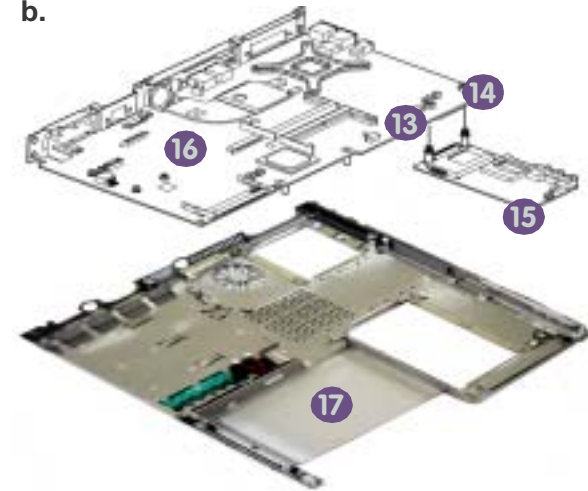
Remove the Bottom Case and Audio Board

- Remove the screws 1-9 (Figure 2 - 13a) from the mainboard and audio board.
- Remove the connectors at points 10-12 (Figure 2 - 13a).
- Gently raise the board assembly away from the bottom of the case.
- Release the nuts at points 13-14 (Figure 2 - 13b) holding the bolts from the audio board 15 (Figure 2 - 13b/c).
- Carefully separate the audio board from the mainboard.

a.



b.



c.



15. Audio board
16. Mainboard assembly
17. Bottom case

- 2 Nuts
- 9 Screws

Remove the Fan Unit

1. Remove the screws 1-3 (Figure 2 - 14a) from the fan unit.
2. Unplug the connector 4 (Figure 2 - 14b) from the fan unit to the mainboard.
3. Lift the fan unit away from the mainboard.

a.



b.



Figure 2 - 14
Fan Unit
Removal
Sequence

- a. Remove the screws from the fan unit, and release the connector.
- b. Lift the fan unit away from the bottom of the case.



- 5. Fan Unit
- 3 Screws

Remove the PCMCIA assembly

1. Carefully lift the PCMCIA unit up and away from the mainboard (Note: The screws anchoring this assembly will have been removed in “Remove the Bottom Case and Audio Board” on page 2 - 20 (screws 4-7)).



Figure 2 - 15
PCMCIA
assembly
Removal
Sequence

- Lift the PCMCIA unit up and away from the mainboard.



- 6. PCMCIA Unit

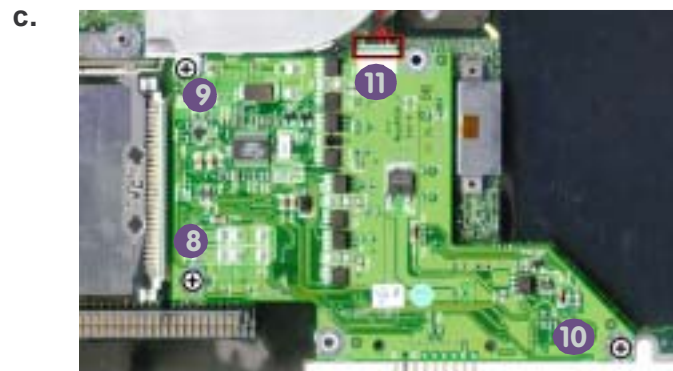
Disassembly

Figure 2 - 16 Power Board Removal Sequence

- a. Remove the hex studs from the IO bracket.
- b. Release the connector from the fan to the mainboard.
- c. Remove the screws from the power board.
- d. Lift the power board up and away from the mainboard.

Remove the Power Board

1. Remove the hex studs 1-4 (Figure 2 - 16a) from the IO bracket, and separate the IO bracket from the mainboard slightly.
2. Release connector 5 (Figure 2 - 16b) from the fan to the mainboard (top) at point 6.
3. Turn the board over to the underside and remove screws 8-10 (Figure 2 - 16c) from the power board, and release the connector at point 11 (Figure 2 - 16c) to the IO bracket.
4. Lift the power board up and away from the mainboard.
5. With all the procedures complete you will be left with the mainboard.



7. IO bracket
11. Power board

- 4 Hex Studs
- 3 Screws

Appendix A:Part Lists

This appendix breaks down the notebook's construction into a series of illustrations. The component part numbers are indicated in the tables opposite the drawings.

Note: This section indicates the *manufacturer's* part numbers. Your organization may use a different system, so be sure to cross-check any relevant documentation.

Note: Some assemblies may have parts in common (especially screws). However, the part lists DO NOT indicate the total number of duplicated parts used.

Note: Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

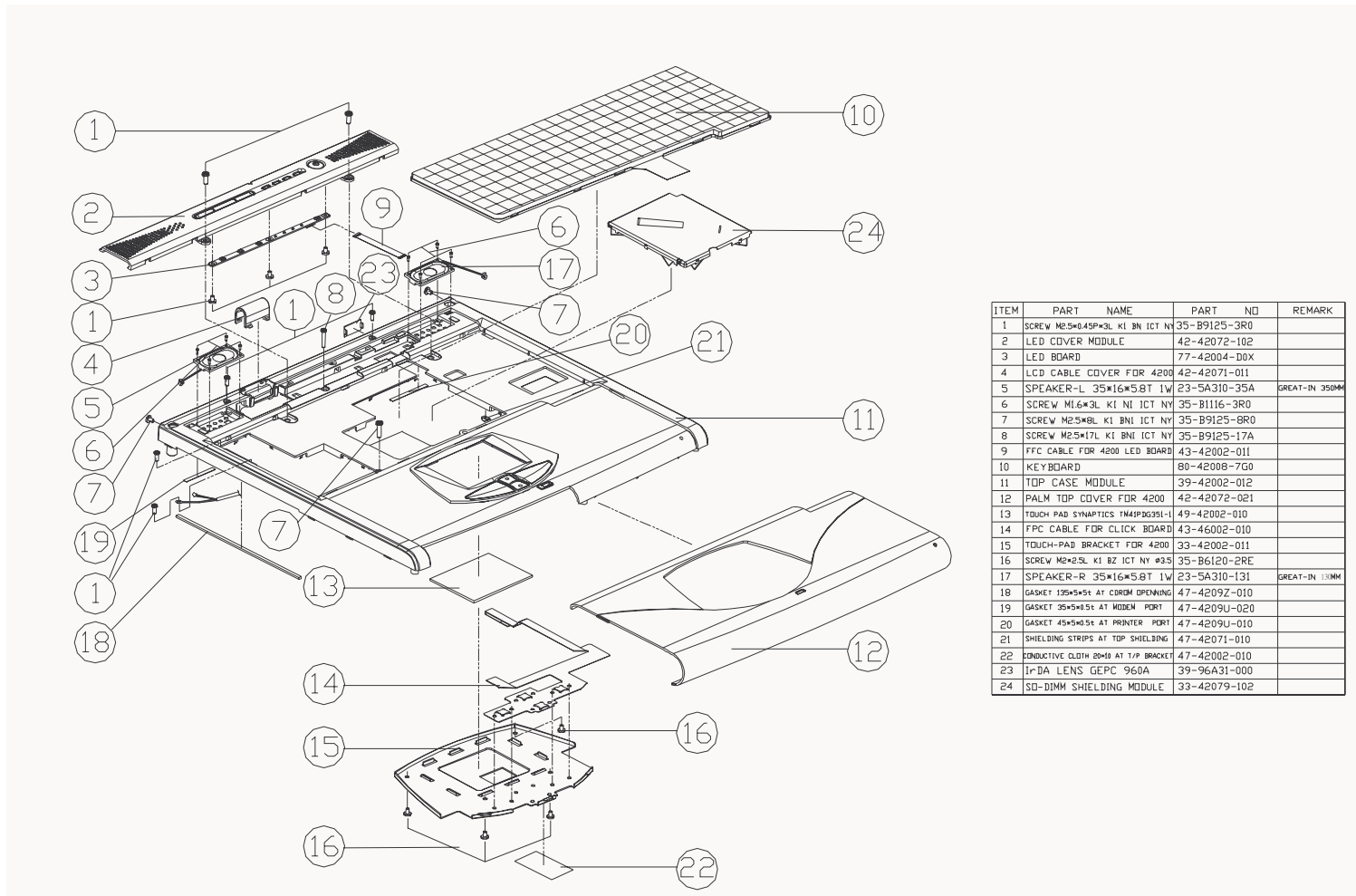
Part List Illustration Location

The following table indicates where to find the appropriate part list illustration.

Table 1 - 1
**Part List Illustration
 Location**

Part	4200	4200M	4600
Top	page A - 3	page A - 13	page A - 23
Top 15"	page A - 4	page A - 14	page A - 24
Bottom	page A - 5	page A - 15	page A - 25
LCD 14"	page A - 6	page A - 16	page A - 26
LCD 15"	page A - 7	page A - 17	page A - 27
Battery	page A - 8	page A - 18	page A - 28
CD-ROM	page A - 9	page A - 19	page A - 29
DVD-ROM	page A - 10	page A - 20	page A - 30
CD-RW	page A - 11	page A - 21	page A - 31
Combo	page A - 12	page A - 22	N/A
Combo - KME	N/A	N/A	page A - 32
Combo - Toshiba	N/A	N/A	page A - 33
HDD	page A - 34	page A - 34	page A - 34
FDD	page A - 35	page A - 35	page A - 35

Top Assembly (4200)

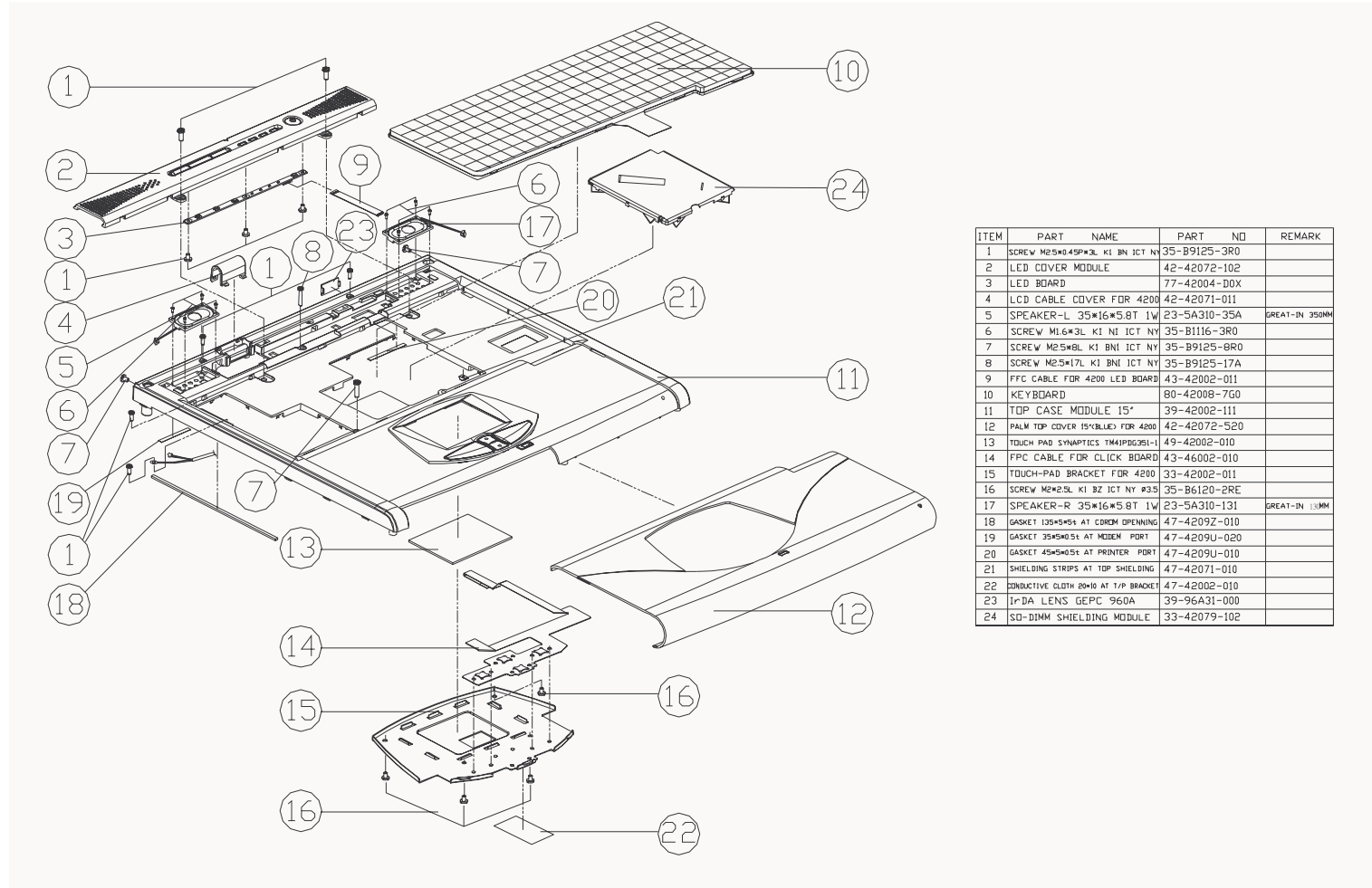


ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5*0.45P*3L KI BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE	42-42072-102	
3	LED BOARD	77-42004-D0X	
4	LCD CABLE COVER FOR 4200	42-42071-011	
5	SPEAKER-L 35*16*5.8T 1W	23-5A310-35A	GREAT-IN 350MM
6	SCREW M1.6*3L KI NI ICT NY	35-B1116-3R0	
7	SCREW M2.5*8L KI BNI ICT NY	35-B9125-BR0	
8	SCREW M2.5*17L KI BNI ICT NY	35-B9125-17A	
9	FFC CABLE FOR 4200 LED BOARD	43-42002-011	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE	39-42002-012	
12	PALM TOP COVER FOR 4200	42-42072-021	
13	TOUCH PAD SYNAPTICS TM4P0G951-L	49-42002-010	
14	FPC CABLE FOR CLICK BOARD	43-42002-010	
15	TOUCH-PAD BRACKET FOR 4200	33-42002-011	
16	SCREW M2*2.5L KI BZ ICT NY #35	35-B6120-2RE	
17	SPEAKER-R 35*16*5.8T 1W	23-5A310-131	GREAT-IN 130MM
18	GASKET 125*5*54 AT CDROM OPENING	47-42092-010	
19	GASKET 35*5*0.54 AT MODEM PORT	47-4209U-020	
20	GASKET 45*5*0.54 AT PRINTER PORT	47-4209U-010	
21	SHIELDING STRIPS AT TOP SHIELDING	47-42071-010	
22	CONDUCTIVE CLOTH 20*10 AT TYP BRACKET	47-42002-010	
23	IR-DA LENS GEPC 960A	39-96A31-000	
24	SO-DIMM SHIELDING MODULE	33-42079-102	

Figure 1 - 1
Top Assembly
(4200)

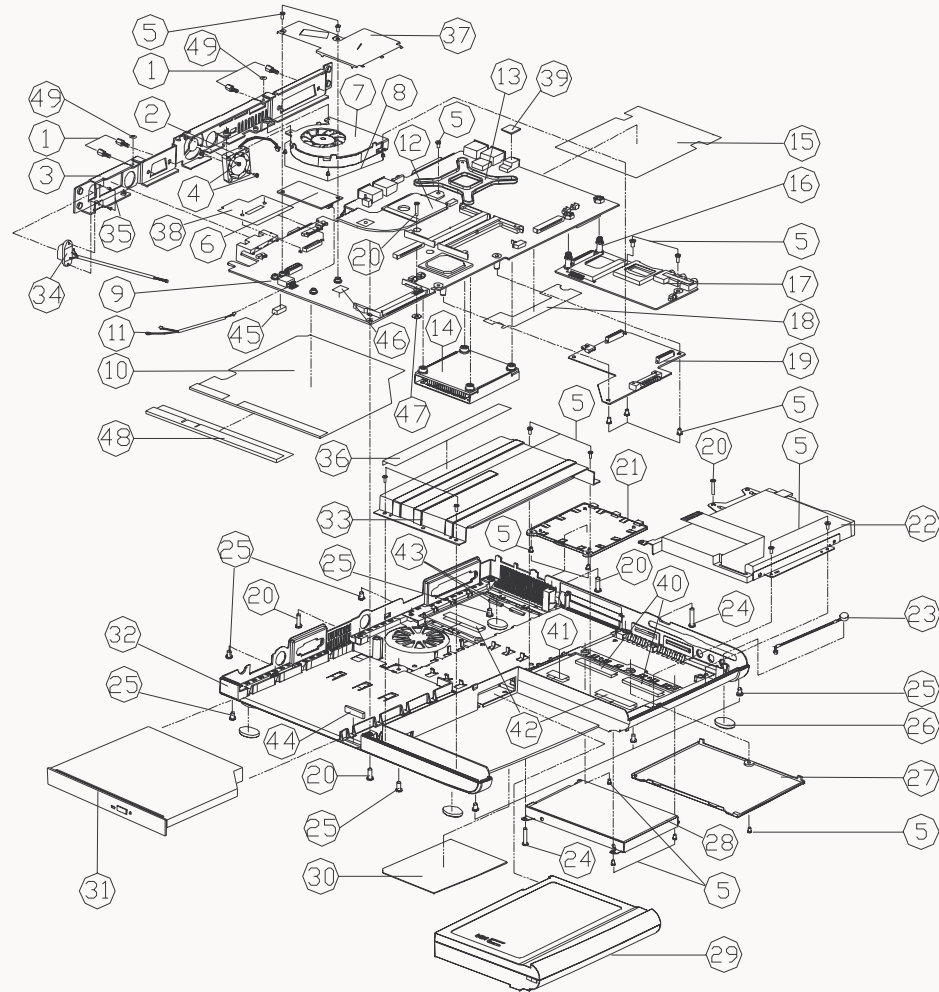
Top Assembly (4200 - 15")

Figure 1 - 2
Top Assembly
(4200 - 15")



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5X0.45P*3L K1 BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE	42-42072-102	
3	LED BOARD	77-42004-DOX	
4	LCD CABLE COVER FOR 4200	42-42071-011	
5	SPEAKER-L 35*16*5.8T 1W	23-5A310-35A	GREAT-IN 350MM
6	SCREW M1.6*3L K1 NI ICT NY	35-B1116-3R0	
7	SCREW M2.5*8L K1 BNI ICT NY	35-B9125-8R0	
8	SCREW M2.5*17L K1 BNI ICT NY	35-B9125-17A	
9	FFC CABLE FOR 4200 LED BOARD	43-42002-011	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE 15"	39-42002-111	
12	PALM TOP COVER 15" (BLUE) FOR 4200	42-42072-520	
13	TOUCH PAD SYNAPTICS 14*11P*25H-L	49-42002-010	
14	FFC CABLE FOR CLICK BOARD	43-46002-010	
15	TOUCH-PAD BRACKET FOR 4200	33-42002-011	
16	SCREW M2*2.5L K1 BZ ICT NY #35	35-B6120-2RE	
17	SPEAKER-R 35*16*5.8T 1W	23-5A310-131	GREAT-IN 13MM
18	GASKET 135*5*5L AT CDRM OPENING	47-4209Z-010	
19	GASKET 35*5*0.5L AT MDRM PORT	47-4209U-020	
20	GASKET 45*5*0.5L AT PRINTER PORT	47-4209U-010	
21	SHIELDING STRIPS AT TOP SHIELDING	47-42071-010	
22	INDUCTIVE CLOTH 20*10 AT TYP BRACKET	47-42002-010	
23	JF-DA LENS GEPC 960A	39-96A31-000	
24	SO-DIMM SHIELDING MODULE	33-42079-102	

Bottom Assembly (4200)

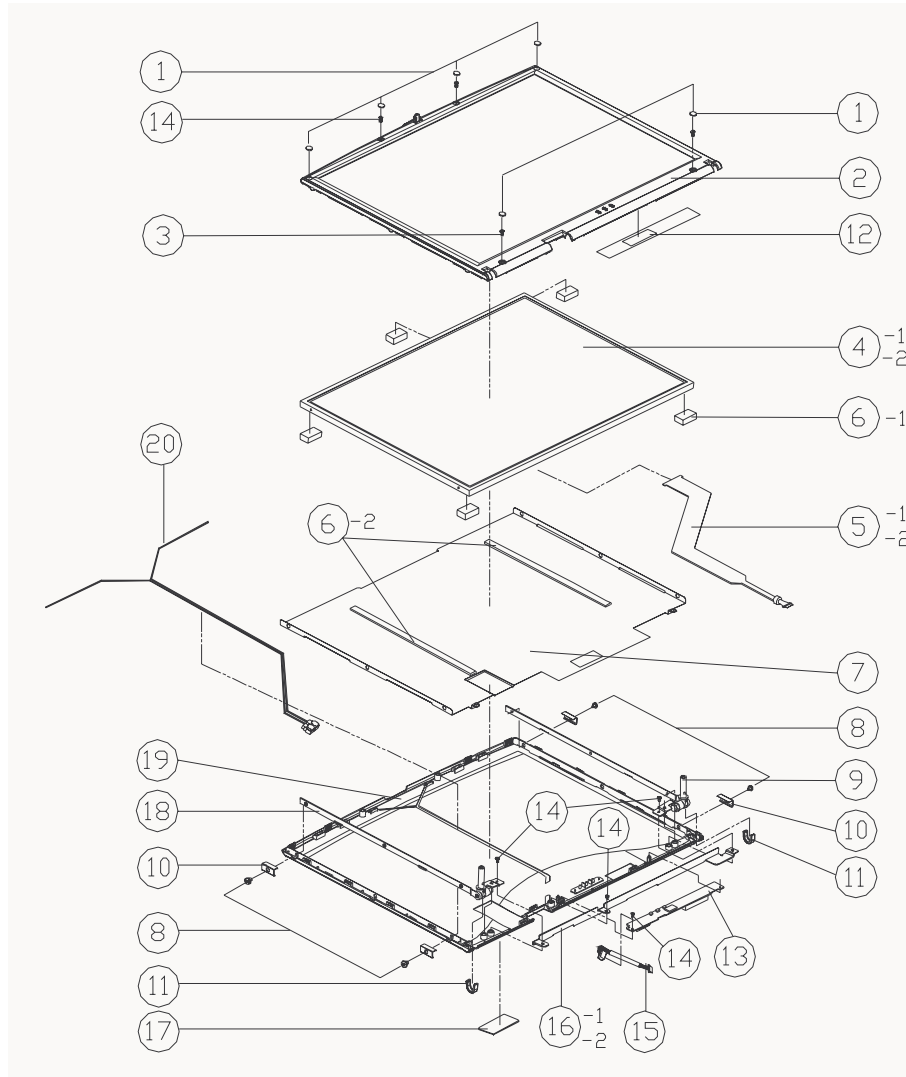


ITEM	PART NAME	PART NO	REMARK
1	HEX STUD SUM22 NI-PL 10mm	33-07009-011-A	
2	FAN 25*25*6.5T 5V 0.09A CDN	23-A2514-050	
3	I/O BRACKET FDR 4200	33-4200S-011	
4	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	
5	SCREW M2.5*4.5P*3L K1 BN ICT NY	35-B9125-3R0	
6	MDC MODEM MODULE	76-32200-003	
7	FAN 45*45*10T 5V 0.2A+CDN APOVER	23-A4511-461	
8	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
9	MAIN BOARD	77-42000-D03	
10	CD ROM MYLAR DN MB FDR 4200	40-4205S-021	
11	CABLE FDR MDC TO M/B	43-4200Z-012	
12	ALMADOR HEATSINK FDR 4200	31-4200N-011	
13	CPU SUPPORT FDR 4200	33-42009-050	
14	CPU HEATSINK MODULE FDR 4200	31-4200N-100	
15	PCMCIA MYLAR FDR 4200	40-4205P-010	
16	AUDIO-BRD NUT 4.3M 2.0H FDR 4200	36-01311-450	
17	AUDIO BOARD	77-4200B-DOX	
18	HDD CONNECTOR MYLAR FDR 4200	40-42051-010	
19	POWER BOARD	77-4200C-DOX	
20	SCREW M2.5*17L K1 BNI ICT NY	35-B9125-17A	
21	CPU COVER MODULE	42-42079-101	
22	FDD ASS'Y 4200	79-4202J-010	Reference Ass'y Mfg (39-4200C-1600)
23	MIC 6MM 10V-2V 2.2K W/CABLE	23-E0602-222	
24	SCREW M2.5*20L K1 BNI ICT NY	35-B9125-200	
25	SCREW M2.5*8L K1 BN ICT NY	35-B9125-8R0	
26	RUBBER FOOT V1.0 SILICONE 320	47-32001-011	
27	HDD COVER MODULE	42-42071-101	
28	W/D HDD ASS'Y 4200	79-42021-010	Reference Ass'y Mfg (39-4200S-1420)
29	BATTERY ASS'Y 4200(PANASONIC)	87-4208S-4C7	Reference Ass'y Mfg (39-4200S-1500)
29	BATTERY ASS'Y 4200(PANASONIC)	87-4208S-457	Reference Ass'y Mfg (39-4200S-1500)
30	PRODUCT LABEL FDR 4200	45-42003-010	
31	CD-ROM ASS'Y 4200	79-4202Z-020	Reference Ass'y Mfg (39-4200S-080)
31	CD-RW ASS'Y 4200	79-4202W-010	Reference Ass'y Mfg (39-4200S-080)
31	DVD ASS'Y 4200	79-4202V-010	Reference Ass'y Mfg (39-4200S-080)
32	BOTTOM CASE MODULE	39-42003-011	
33	BATTERY BRACKET	33-4200M-011	
34	CABLE FDR DC JACK 2P	43-4200Z-022	
35	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	
36	CONDUCTIVE CLOTH 10*10 AT BATTERY BRACKET	47-4200M-010	
37	MINI PCI SHIELDING MODULE	33-4207P-101	
38	LCD CONNECTOR MYLAR	40-42051-010	
39	GASKET 10*7*1T AT I394 PORT	47-4209P-010	
40	CONDUCTIVE CLOTH 40*16 AT HDD DOOR	47-42001-010	
41	CONDUCTIVE CLOTH 23*18 AT HDD DOOR	47-42001-020	
42	CONDUCTIVE CLOTH 45*16 AT CPU DOOR	47-42001-030	
43	CONDUCTIVE CLOTH 18*15 AT CPU DOOR	47-4200S-010	
44	GASKET 25*5*7T AT CDROM OPENNING	47-4209Z-020	
45	GASKET 10*5*3.5 AT USB PORT	47-4209P-020	
46	HDD LABEL(PHONEX NITELOS PENTHAR PSIV)	45-85V09-011	
47	MYLAR WASHER AT P/B BOSS	40-0015Y-010	
48	MB LEFT MYLAR W/ CONDUCTIVE CLOTH	40-4205S-030	
49	WASHER 75*12.5*0.4t (MYLAR)	37-02000-501	

Figure 1 - 3
Bottom Assembly (4200)

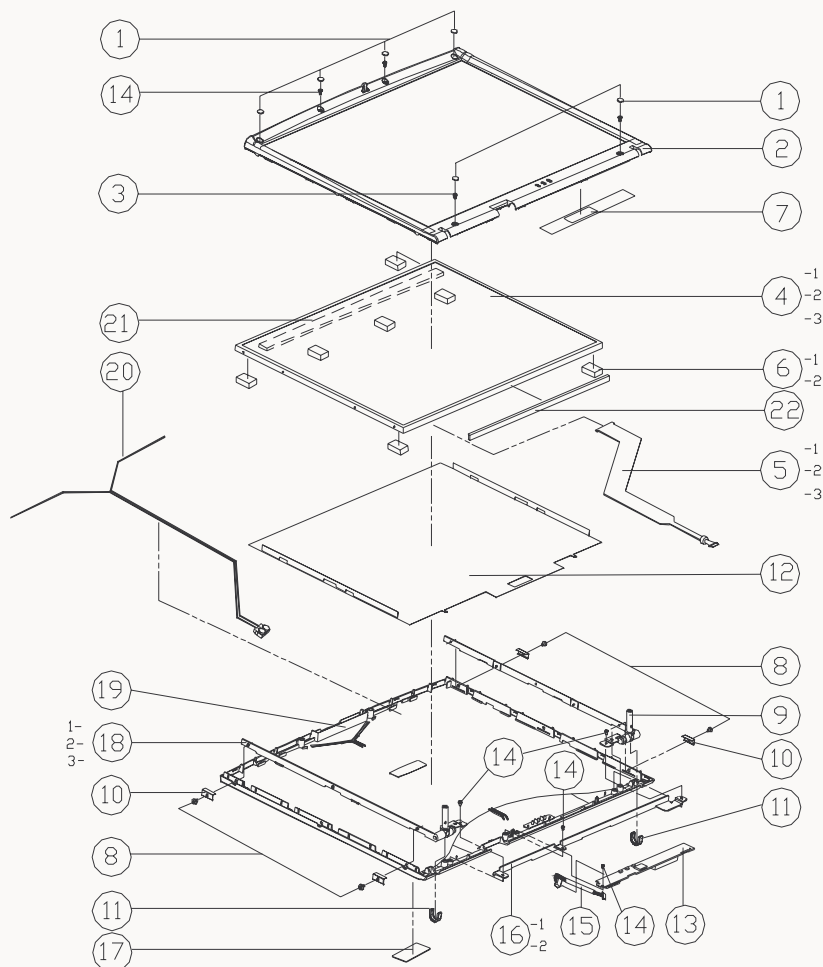
LCD 14" (4200)

Figure 1 - 4
LCD 14" (4200)



ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-42001-020	
2	14.1" LCD FRONT COVER MODULE	39-42001-011	
3	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
4-1	LCD 14.1" TFT CPT CLAA141XC01 XG	50-J2265-C00	
4-2	LCD 14.1" T UNIPAC UB141X01	50-J2260-U03	
5-1	LCD COAXIAL CABLE FOR 14.1"	43-42001-020	CPT CLAA141XC01
5-2	LCD COAXIAL CABLE FOR 14.1"	43-42001-010	UNIPAC UB141X01
6-1	PORON	47-42091-030	UNIPAC
6-2	LCD BACK COVER SPONGE 200*8*1T	47-42091-010	CPT
7	LCD SHIELDING PLATE FOR 14.1"	40-42001-010	
8	SCREW M2*2L K1 BZ ICT NY	35-B6120-2R0	
9	LCD HINGE-R 14.1" FOR 4200	33-42001-021	
10	LCD CLAMPING FOR 4200	33-42001-040	
11	HINGE COVER FOR 4200	42-4207Y-011	
12	FRONT COVER 鋁箔	40-42031-010	
13	INVERTER BOARD	77-4200R-D0X	
14	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FOR INVERTER	43-4200R-010	
16	LCD BRACKET 4200	33-42001-050	UNIPAC UB141X01
16	LCD BRACKET W/D PORON	33-42001-051	CPT CLAA141XC01
17	NAME PLATE FOR CLEVO LP200T	45-P2202-000	
18	LCD HINGE-L 14.1" FOR 4200	33-42001-031	
19	14.1" LCD BACK COVER MODULE	39-42001-021	
20	24G DIPOLE ANTENNA L=500MM*58.5MM	23-712R4-001	

LCD 15" (4200)



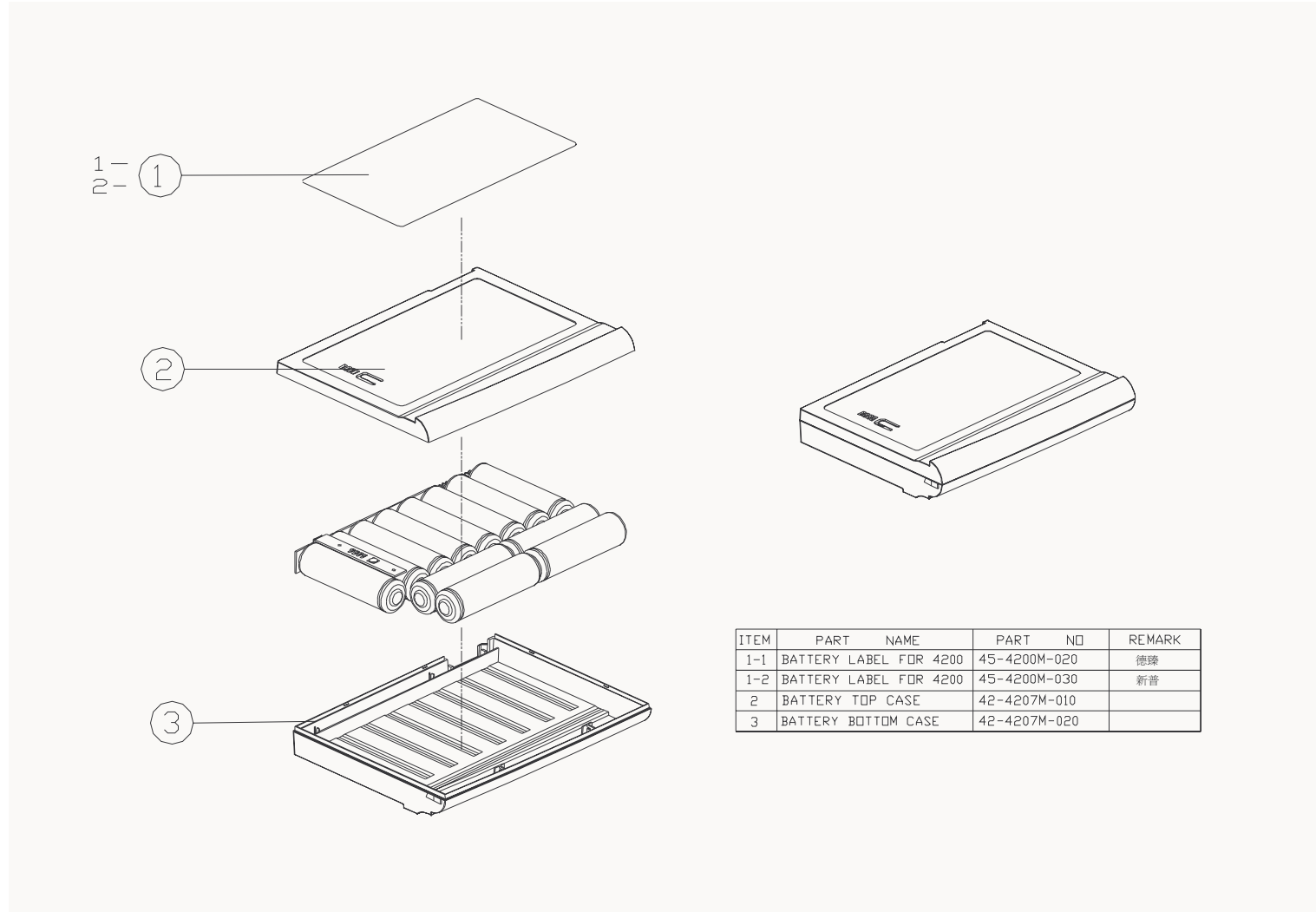
ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-32001-020	
2	LCD FRONT COVER 15" MODULE	39-42001-111	
3	SCREW M2.5*5L KI BNI ICT NY	35-B9125-5R0	
4-1	LCD T IBM ITSX93C/E 15.0" SXGA+	50-L5275-E00	
4-2	LCD 15" T HYUNDAI HT15PI1 SXGA+	50-L5275-H00	
4-3	LCD T CPT CLAA150PA01 15" SXGA+70MM	50-L5270-C00	
5-1	LCD CABLE FOR IBM 15"	43-42001-130	IBM
5-2	LCD WIRE CABLE FOR 15" HYUNDAI	43-42001-030	HYUNDAI
5-3	LCD CABLE FOR 15" CPT	43-42001-110	CPT
6-1	PORDN 16*6*0.8mm FOR UNIPAC 14.1"	47-42091-030	IBM
6-2	PORDN 16*6*2 FOR 15" CPT	47-42091-040	CPT/HYUNDAI
7	鋸箔 FOR LCD FRONT COVER	40-42031-010	
8	SCREW M2*2L KI BZ ICT NY	35-B6120-2R0	
9-1	LCD HINGE-R 15" IBM FOR 4200	33-42001-120	
9-2	LCD HINGE-R 15" FOR HYUNDAI 4200	33-42001-220	
9-3	LCD HINGE-R 15" FOR CPT 4200	33-42001-320	
10	LCD CLAMPING FOR 4200	33-42001-040	
11	HINGE COVER FOR 4200	42-4207Y-011	
12	4200 15" LCD BACK COVER 鋸箔	40-42031-111	
13	INVERTER BOARD	77-4200R-D0X	
14	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FOR INVERTER	43-4200R-010	
16-1	LCD BRACKET FOR 14.1" W/O SPONGE	33-42001-051	IBM/CPT
16-2	LCD BRACKET	33-42001-050	HYUNDAI
17	NAME PLATE FOR CLEVO LP200T	45-P2202-000	
18-1	LCD HINGE-L 15" FOR IBM 4200	33-42001-130	
18-2	LCD HINGE-L 15" FOR HYUNDAI 4200	33-42001-230	
18-3	LCD HINGE-L 15" FOR CPT 4200	33-42001-330	
19	LCD BACK COVER MODULE 15"	39-42001-121	
20	24G BIPOLE ANTENNA (WIRE ASSEMBLY)	23-712R4-001	
21	LCD BACK COVER SPONGE	47-42091-010	IBM
22	GASKET(175*8*1T)	47-00190-H50	

Figure 1 - 5
LCD 15" (4200)

Part Lists

Battery (4200)

Figure 1 - 6
Battery (4200)



ITEM	PART NAME	PART NO	REMARK
1-1	BATTERY LABEL FOR 4200	45-4200M-020	德臻
1-2	BATTERY LABEL FOR 4200	45-4200M-030	新普
2	BATTERY TOP CASE	42-4207M-010	
3	BATTERY BOTTOM CASE	42-4207M-020	

CD-ROM Drive (4200)

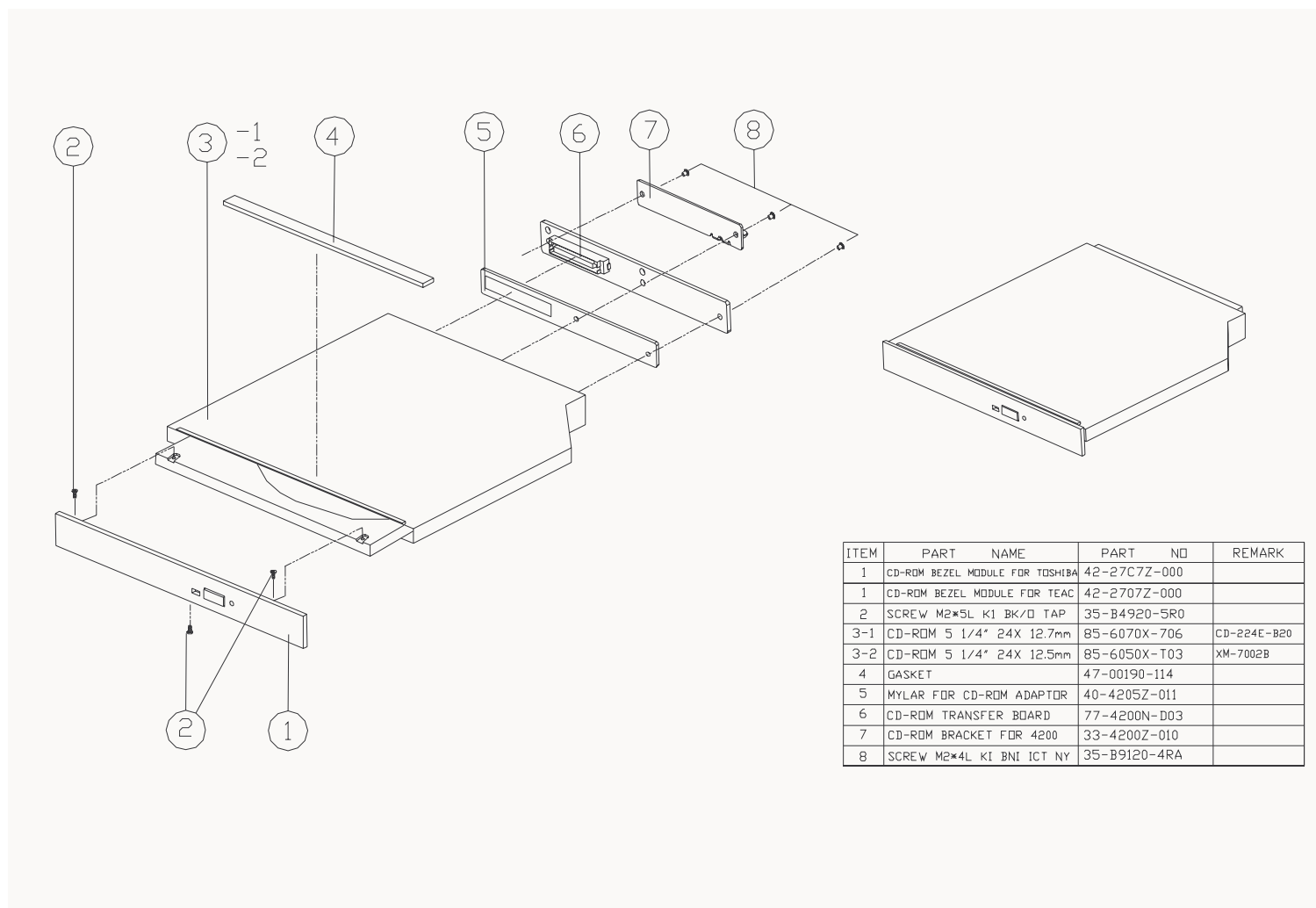


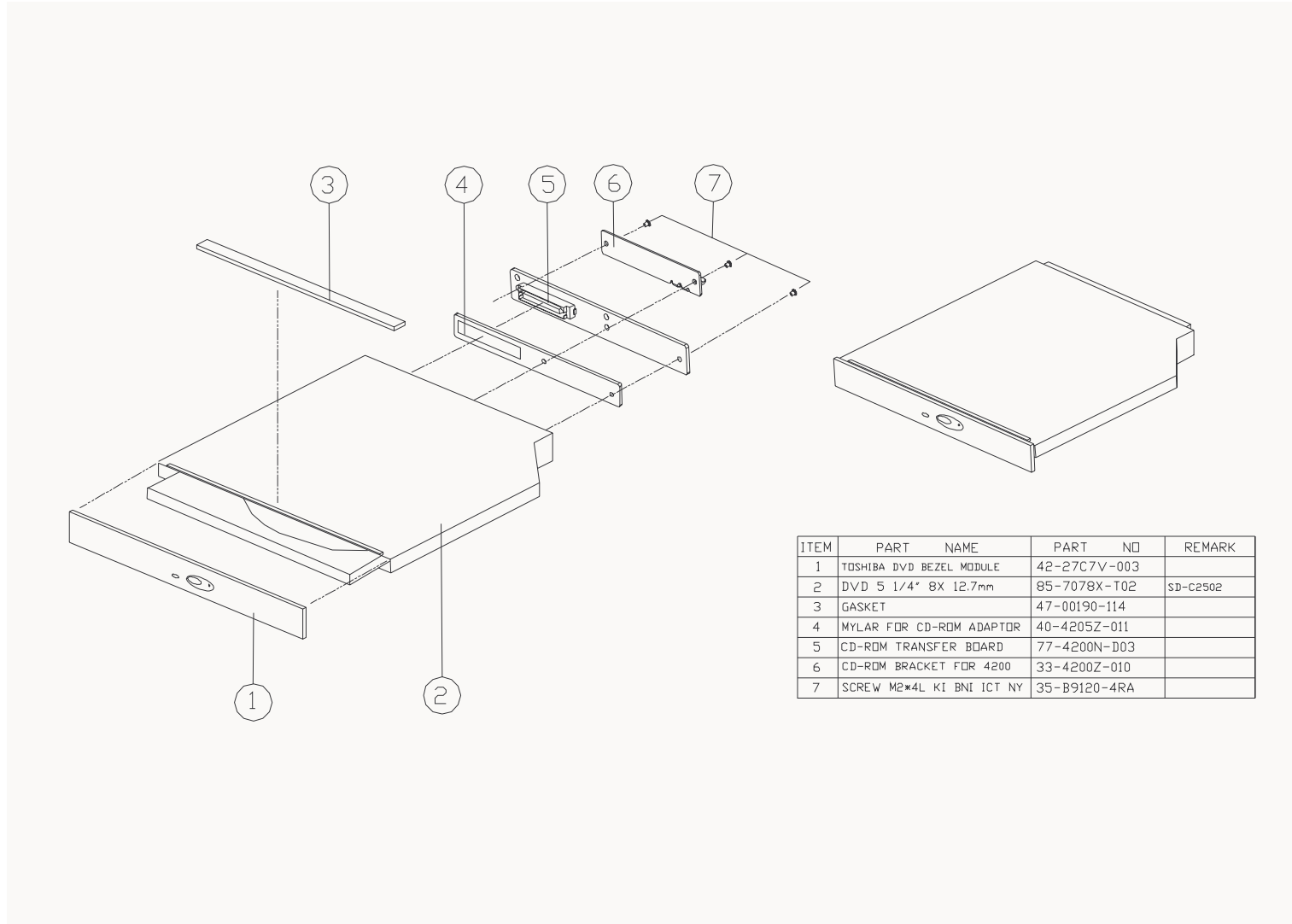
Figure 1 - 7
CD-ROM Drive
(4200)

ITEM	PART NAME	PART NO	REMARK
1	CD-ROM BEZEL MODULE FOR TOSHIBA	42-27C7Z-000	
1	CD-ROM BEZEL MODULE FOR TEAC	42-2707Z-000	
2	SCREW M2*5L K1 BK/D TAP	35-B4920-5R0	
3-1	CD-ROM 5 1/4" 24X 12.7mm	85-6070X-706	CD-224E-B20
3-2	CD-ROM 5 1/4" 24X 12.5mm	85-6050X-T03	XM-7002B
4	GASKET	47-00190-114	
5	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
6	CD-ROM TRANSFER BOARD	77-4200N-D03	
7	CD-ROM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Part Lists

DVD-ROM Drive (4200)

Figure 1 - 8
DVD-ROM Drive
(4200)



ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA DVD BEZEL MODULE	42-27C7V-003	
2	DVD 5 1/4" 8X 12.7mm	85-7078X-T02	SD-C2502
3	GASKET	47-00190-114	
4	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
5	CD-ROM TRANSFER BOARD	77-4200N-D03	
6	CD-ROM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

CD-RW Drive (4200)

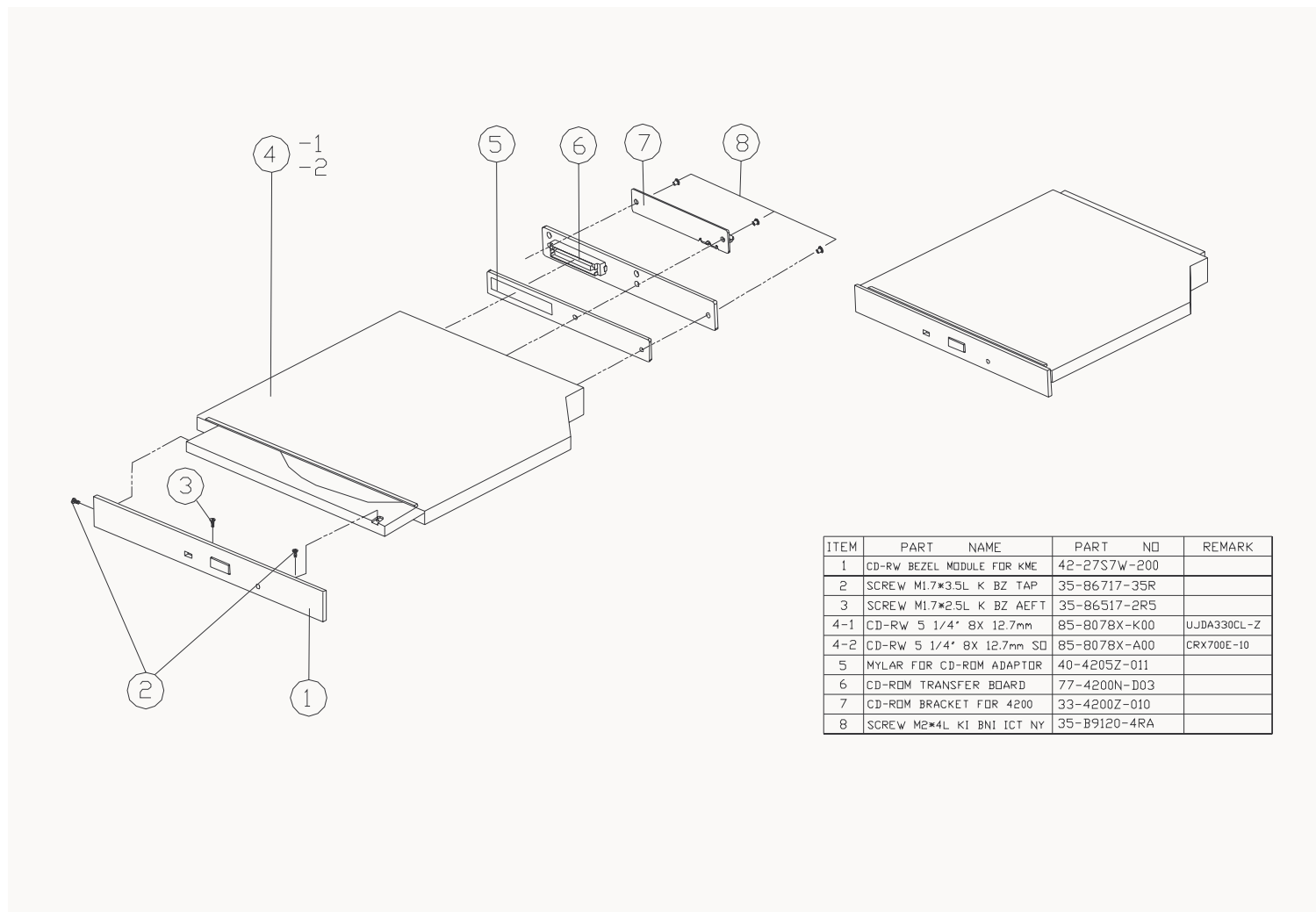


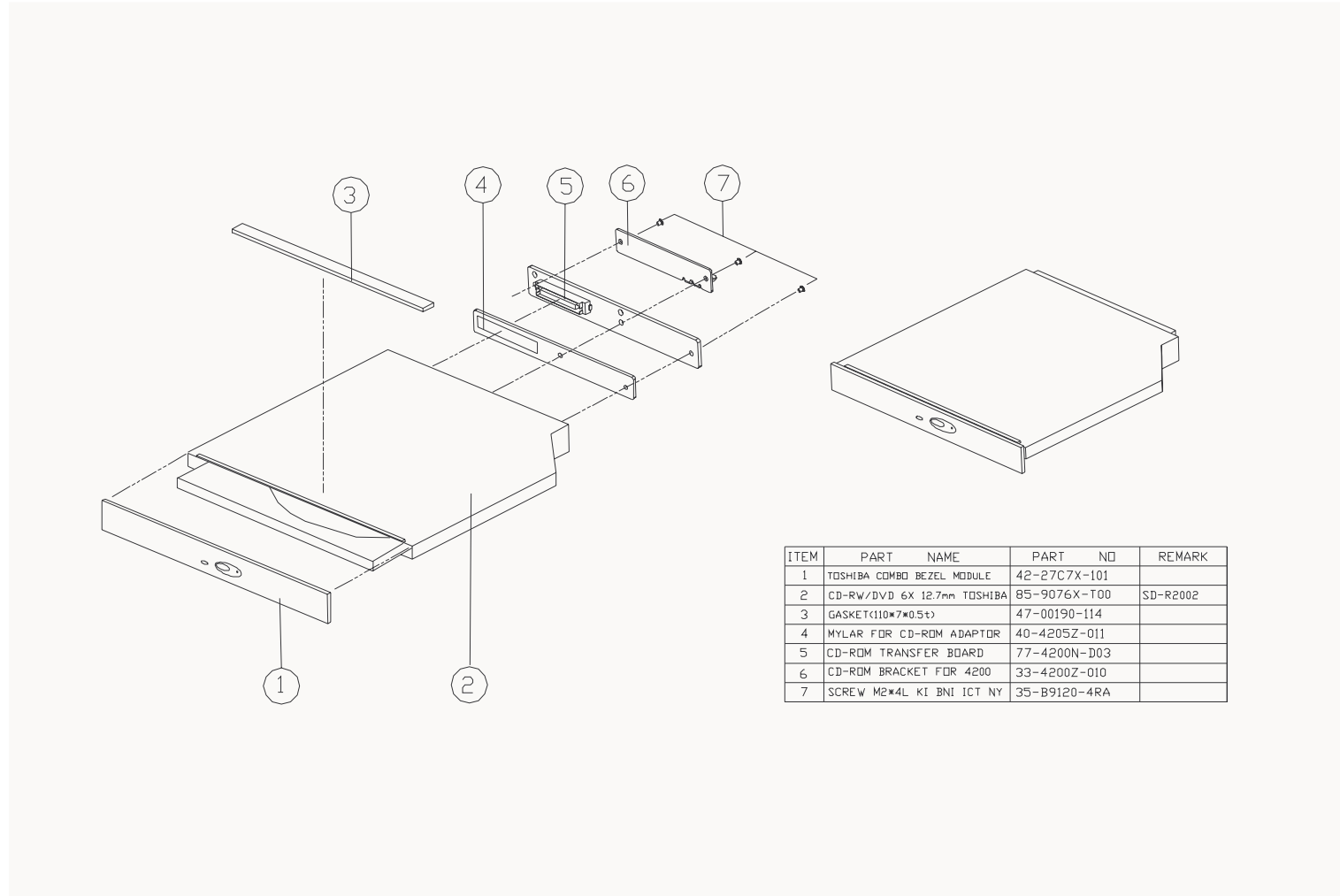
Figure 1 - 9
CD-RW Drive (4200)

ITEM	PART NAME	PART NO	REMARK
1	CD-RW BEZEL MODULE FOR KME	42-27S7W-200	
2	SCREW M1.7*3.5L K BZ TAP	35-86717-35R	
3	SCREW M1.7*2.5L K BZ AEFT	35-86517-2R5	
4-1	CD-RW 5 1/4" 8X 12.7mm	85-8078X-K00	UJDA330CL-Z
4-2	CD-RW 5 1/4" 8X 12.7mm SD	85-8078X-A00	CRX700E-10
5	MYLAR FOR CD-RDM ADAPTOR	40-4205Z-011	
6	CD-RDM TRANSFER BOARD	77-4200N-D03	
7	CD-RDM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Part Lists

Combo Drive (4200)

Figure 1 - 10
Combo Drive (4200)



ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA COMBO BEZEL MODULE	42-27C7X-101	
2	CD-RW/DVD 6X 12.7mm TOSHIBA	85-9076X-T00	SD-R2002
3	GASKET(110*7*0.5t)	47-00190-114	
4	MYLAR FOR CD-RDM ADAPTOR	40-4205Z-011	
5	CD-RDM TRANSFER BOARD	77-4200N-D03	
6	CD-RDM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Top Assembly (4200M)

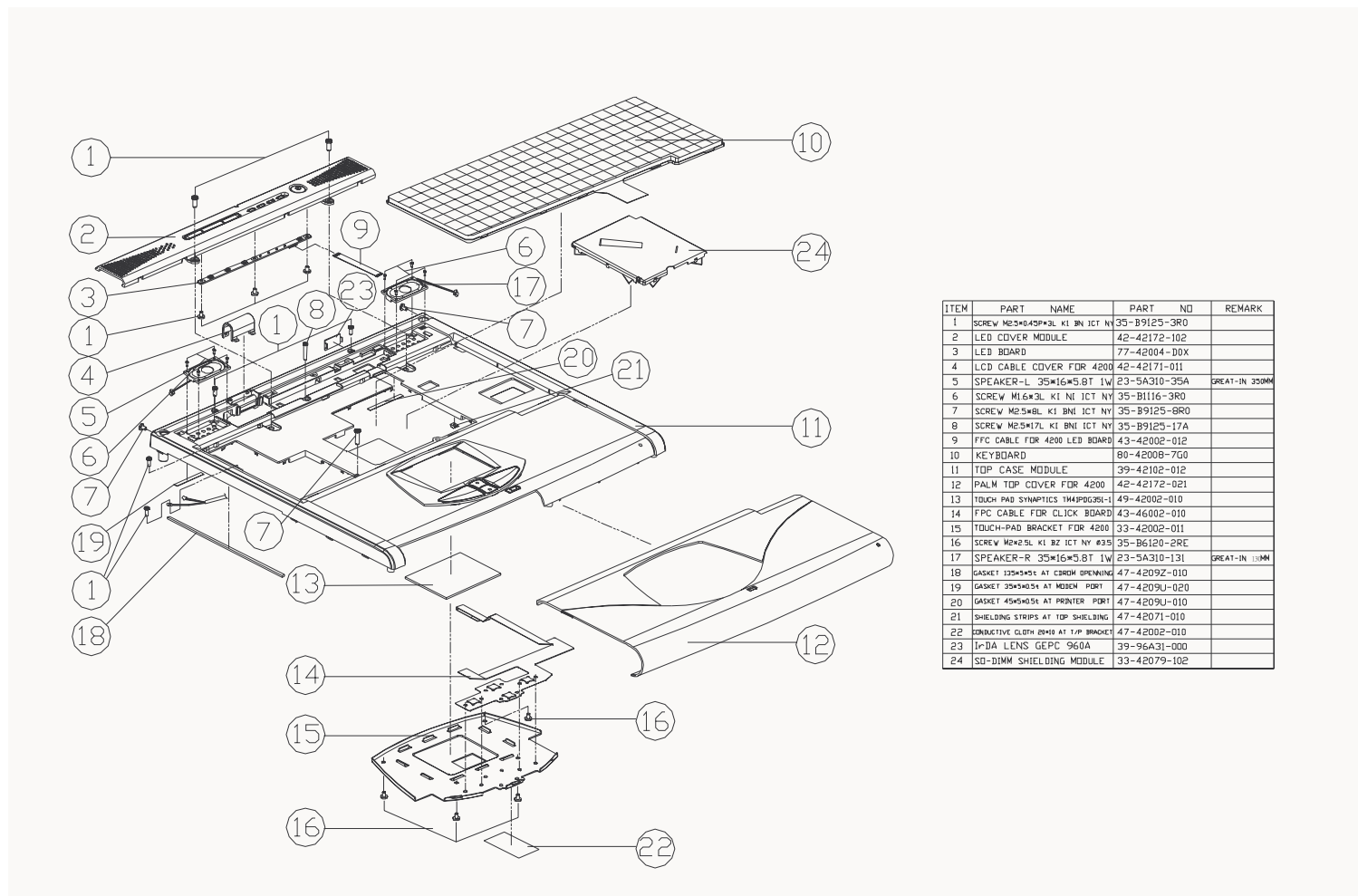


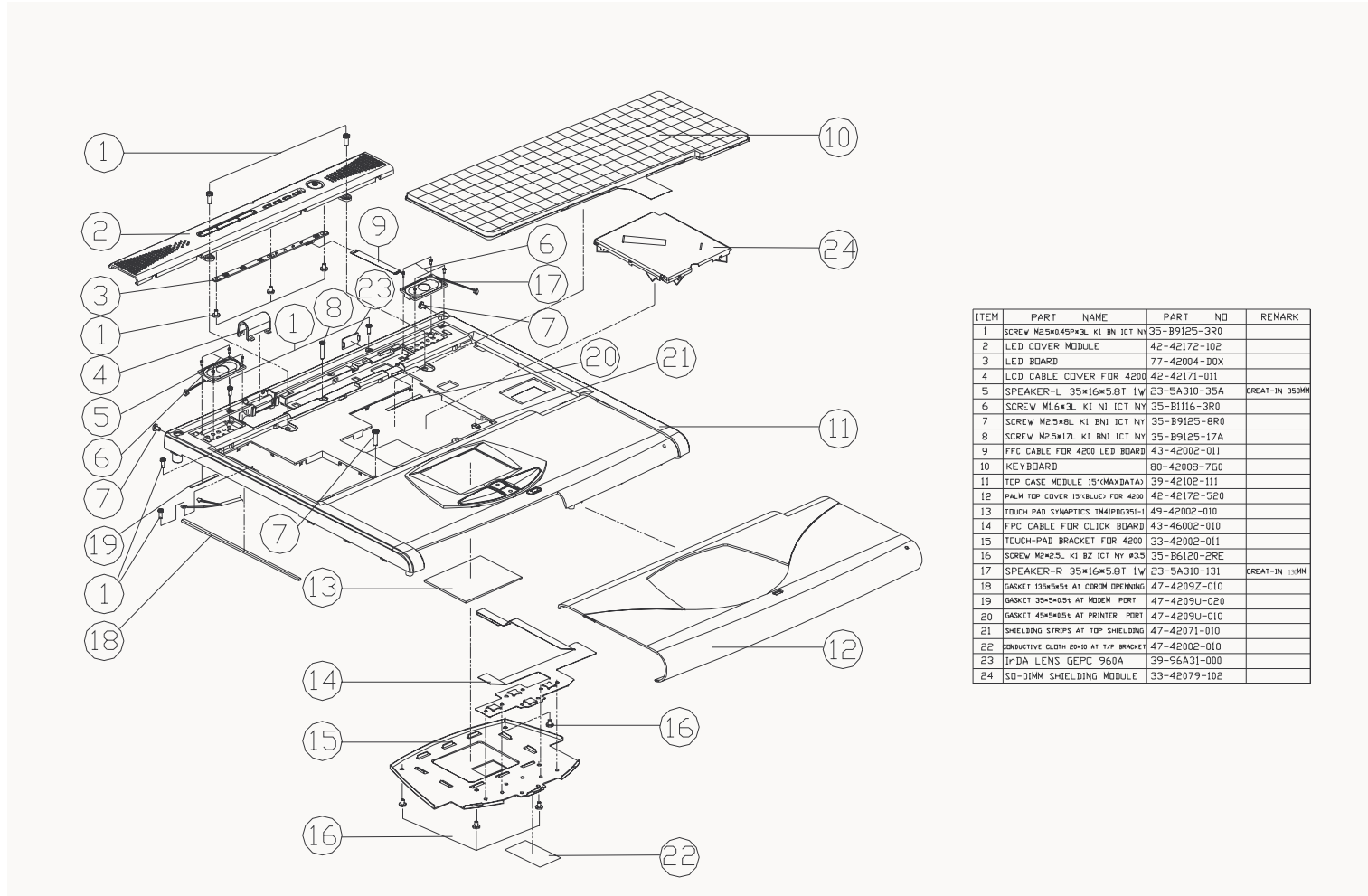
Figure 1 - 11
Top Assembly
(4200M)

ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5*0.45*3.1 KI BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE	42-42172-102	
3	LED BOARD	77-42004-D0X	
4	LCD CABLE COVER FOR 4200	42-42171-011	
5	SPEAKER-L 35*16*5.8T 1W	23-5A310-35A	GREAT-IN 350MM
6	SCREW M1.6*3.1 KI NI ICT NY	35-B1116-3R0	
7	SCREW M2.5*8L KI BN ICT NY	35-B9125-8R0	
8	SCREW M2.5*17L KI BN ICT NY	35-B9125-17A	
9	FFC CABLE FOR 4200 LED BOARD	43-42002-012	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE	39-42102-012	
12	PALM TOP COVER FOR 4200	42-42172-021	
13	TOUCH PAD SYNAPTICS 1144P0035-1	49-42002-010	
14	FPC CABLE FOR CLICK BOARD	43-46002-010	
15	TOUCH-PAD BRACKET FOR 4200	33-42002-011	
16	SCREW M2*2.5L KI BZ ICT NY #35	35-B6120-2RE	
17	SPEAKER-R 35*16*5.8T 1W	23-5A310-13L	GREAT-IN 13MM
18	GASKET 33*43*0.51 AT C800H OPENING	47-42092-010	
19	GASKET 33*43*0.51 AT M800H PORT	47-4209U-020	
20	GASKET 45*43*0.51 AT PRINTER PORT	47-4209U-010	
21	SHIELDING STRIPS AT TOP SHIELDING	47-42071-010	
22	SHIELDING STRIPS AT TOP SHIELDING	47-42002-010	
23	Ir-DA LENS GEPC 960A	39-96A31-000	
24	SO-DIMM SHIELDING MODULE	33-42079-102	

Part Lists

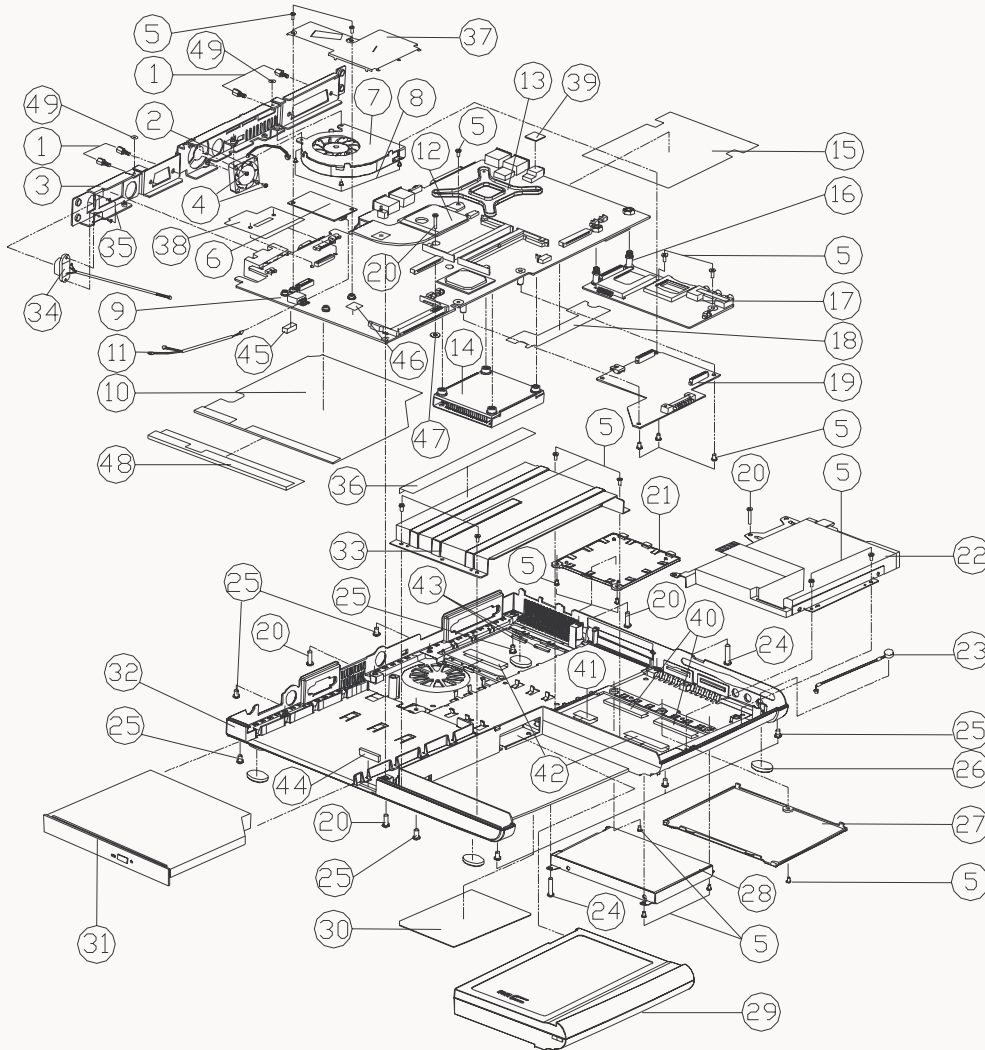
Top Assembly (4200M - 15")

Figure 1 - 12
Top Assembly
(4200M - 15")



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5*0.45*P4.3L KI BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE	42-42172-102	
3	LED BOARD	77-42004-DOX	
4	LCD CABLE COVER FOR 4200	42-42171-011	
5	SPEAKER-L 35*16*5.BT 1W	23-5A310-35A	GREAT-IN 35MM
6	SCREW M1.6*3L KI NI ICT NY	35-B1116-3R0	
7	SCREW M2.5*8L KI BN1 ICT NY	35-B9125-8R0	
8	SCREW M2.5*17L KI BN1 ICT NY	35-B9125-17A	
9	FPC CABLE FOR 4200 LED BOARD	43-42002-011	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE 15"(MAXDATA)	39-42102-111	
12	PALM TOP COVER 15"(BLUES) FOR 4200	42-42172-520	
13	TOUCH PAD SYNAPTICS TM4(PDC351-I)	49-42002-010	
14	FPC CABLE FOR CLICK BOARD	43-46002-010	
15	TOUCH-PAD BRACKET FOR 4200	33-42002-011	
16	SCREW M2*2.5L KI BZ ICT NY #35	33-56120-2RE	
17	SPEAKER-R 35*16*5.BT 1W	23-5A310-131	GREAT-IN 35MM
18	GASKET 135*50*5 AT CORD OPENING	47-4209Z-010	
19	GASKET 35*45*0.5 AT MODEM PORT	47-4209U-010	
20	GASKET 45*45*0.5 AT PRINTER PORT	47-4209U-020	
21	SHIELDING STRIPS AT TOP SHIELDING	47-42071-010	
22	CONDUCTIVE CLOTH 20*10 AT T/P BRACKET	47-42002-010	
23	Ir-DA LENS GEPC 960A	39-96A31-000	
24	SD-DIMM SHIELDING MODULE	33-42079-102	

Bottom Assembly (4200M)

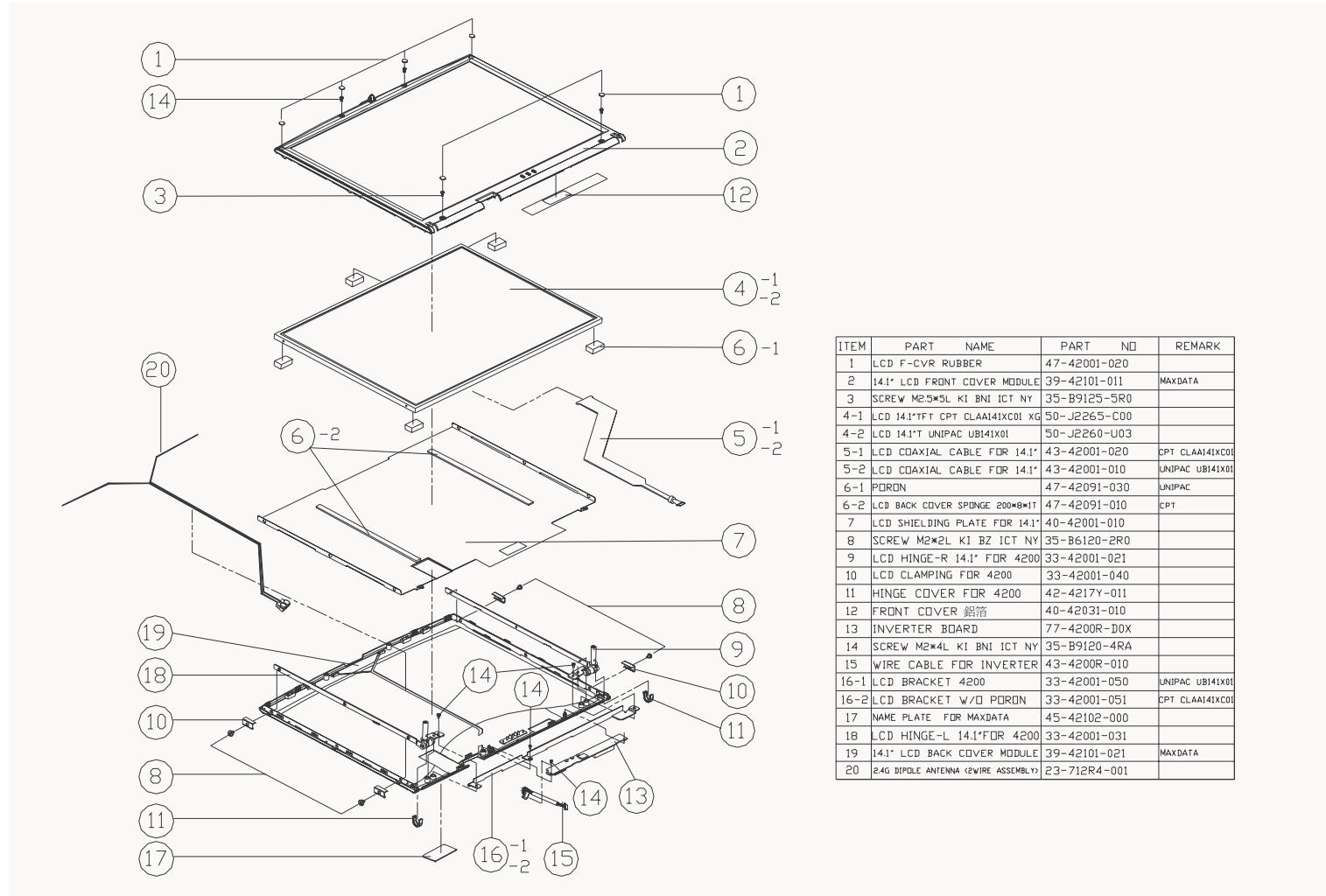


ITEM	PART NAME	PART NO	REMARK
1	HEX STUD SUM22 NI-PL 10mm	33-07009-011-A	
2	FAN 25*25*6.5T 5V 0.09A CON	23-A2514-050	
3	I/O BRACKET FDR 4200	33-4200S-011	
4	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	
5	SCREW M2.5*0.45P*3L KI BN ICT NY	35-B9125-3R0	
6	MDC MODEM MODULE	76-32200-003	
7	FAN 45*45*10T 5V 0.2A-CON APOWDR	23-A4511-461	
8	SCREW M2.5*5L KI BNI ICT NY	35-B9125-5R0	
9	MAIN BOARD	77-42000-D03	
10	CD ROM MYLAR DN MB FDR 4200	40-4205S-021	
11	CABLE FOR MDC TO M/B	43-4200Z-012	
12	ALMADOR HEATSINK FDR 4200	31-4200N-011	
13	CPU SUPPORT FDR 4200	33-42009-050	
14	CPU HEATSINK MODULE FDR 4200	31-4200N-100	
15	PCMCIA MYLAR FDR 4200	40-4205P-010	
16	AUDIO-BRD NUT 4.3M 2.0H FDR 4200	36-01311-450	
17	AUDIO BOARD	77-42008-D0X	
18	HDD CONNECTOR MYLAR FDR 4200	40-42051-010	
19	POWER BOARD	77-4200C-D0X	
20	SCREW M2.5*17L KI BNI ICT NY	35-B9125-17A	
21	CPU COVER MODULE	42-42179-101	
22	FDD ASS'Y 4200	79-4202J-010	Reference Assy Info (99-4200S-080)
23	MIC 6MM 10V-2V 2.2K W/CABLE	23-E0602-222	
24	SCREW M2.5*20L KI BNI ICT NY	35-B9125-200	
25	SCREW M2.5*8L KI BNI ICT NY	35-B9125-BR0	
26	RUBBER FOOT V1.0 SILICONE 320	47-32001-011	
27	HDD COVER MODULE	42-42171-101	
28	W/D HDD ASS'Y 4200	79-4202I-010	Reference Assy Info (99-4200S-040)
29	BATTERY(OPTION) ASS'Y 4200	87-4228S-457	Reference Assy Info (99-4200S-050)
29	BATTERY(OPTION) ASS'Y 4200	87-4228S-4C7	Reference Assy Info (99-4200S-050)
30	PRODUCT LABEL FDR 4200	45-42003-010	
31	CD-ROM ASS'Y 4200	79-4212Z-020	Reference Assy Info (99-4200S-050)
31	CD-RW ASS'Y 4200	79-4212W-010	Reference Assy Info (99-4200S-050)
31	DVD ASS'Y 4200	79-4212V-010	Reference Assy Info (99-4200S-050)
32	BOTTOM CASE MODULE	39-42103-011	
33	BATTERY BRACKET	33-4200M-011	
34	CABLE FOR DC JACK 2P	43-42002-022	
35	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	
36	CONDUCTIVE CLOTH 150*20 AT BATTERY BRACKET	47-4200M-010	
37	MINI PCI SHIELDING MODULE	33-4207P-101	
38	LCD CONNECTOR MYLAR	40-42051-010	
39	GASKET 10*7*1T AT 1394 PORT	47-4209P-010	
40	CONDUCTIVE CLOTH 40*18 AT HDD DOOR	47-42001-010	
41	CONDUCTIVE CLOTH 23*18 AT HDD DOOR	47-42001-020	
42	CONDUCTIVE CLOTH 45*18 AT CPU DOOR	47-42001-030	
43	CONDUCTIVE CLOTH 18*15 AT CPU DOOR	47-4200S-010	
44	GASKET 25*5*7T AT CDROM OPENNING	47-4209Z-020	
45	GASKET 10*5*3.5 AT USB PORT	47-4209P-020	
46	BDS LABELPhoneX InterBox PENTIUM PSIV1	45-85V09-011	
47	MYLAR WASHER AT P/B BOSS	40-0015Y-010	
48	MB LEFT MYLAR W/ CONDUCTIVE CLOTH	40-4205S-030	
48	WASHER Ø5*Ø2.5*0.4t (MYLAR)	37-02000-501	

Figure 1 - 13
Bottom Assembly
(4200M)

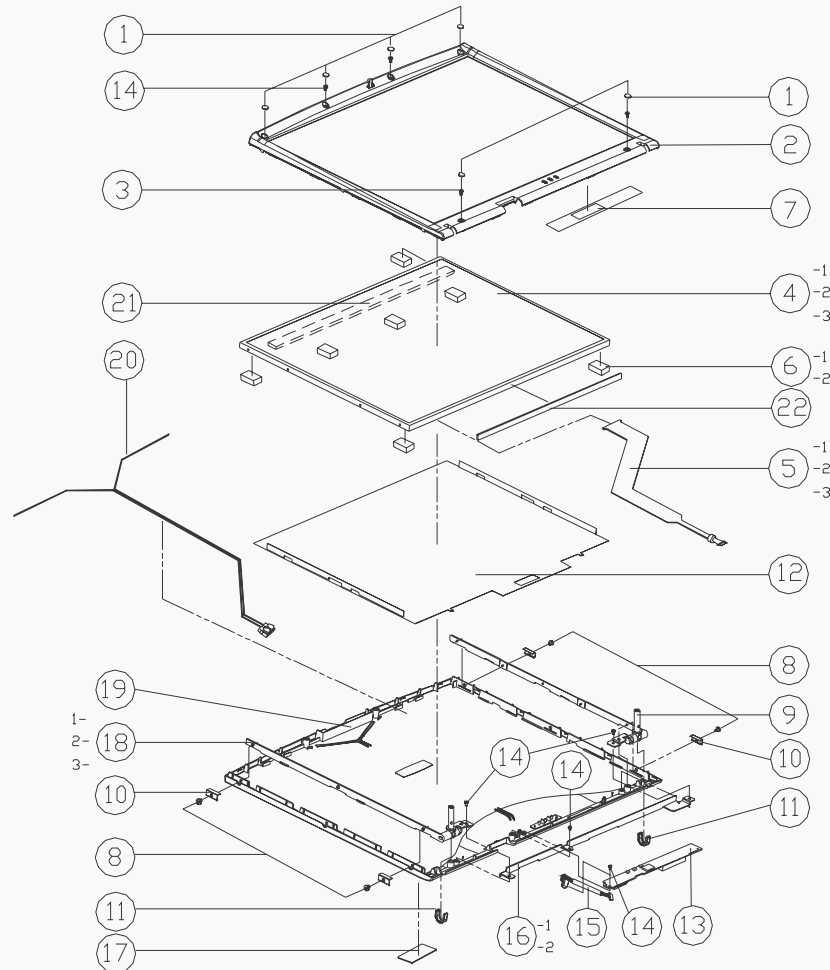
LCD 14" (4200M)

Figure 1 - 14
LCD 14" (4200M)



ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-42001-020	
2	14.1" LCD FRONT COVER MODULE	39-42101-011	MAXDATA
3	SCREW M2.5*SL K1 BNI ICT NY	35-B9125-5R0	
4-1	LCD 14.1"FT CPT CLAA141XC01 XG	50-J2265-C00	
4-2	LCD 14.1" UNIPAC UB141X01	50-J2260-U03	
5-1	LCD COAXIAL CABLE FOR 14.1"	43-42001-020	CPT CLAA141XC01
5-2	LCD COAXIAL CABLE FOR 14.1"	43-42001-010	UNIPAC UB141X01
6-1	PORDN	47-42091-030	UNIPAC
6-2	LCD BACK COVER SPONGE 200*8*11	47-42091-010	CPT
7	LCD SHIELDING PLATE FOR 14.1"	40-42001-010	
8	SCREW M2*2L K1 BZ ICT NY	35-B6120-2R0	
9	LCD HINGE-R 14.1" FOR 4200	33-42001-021	
10	LCD CLAMPING FOR 4200	33-42001-040	
11	HINGE COVER FOR 4200	42-4217Y-011	
12	FRONT COVER 鋁箔	40-42031-010	
13	INVERTER BOARD	77-4200R-D0X	
14	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FOR INVERTER	43-4200R-010	
16-1	LCD BRACKET 4200	33-42001-050	UNIPAC UB141X01
16-2	LCD BRACKET W/D PORDN	33-42001-051	CPT CLAA141XC01
17	NAME PLATE FOR MAXDATA	45-42102-000	
18	LCD HINGE-L 14.1"FOR 4200	33-42001-031	
19	14.1" LCD BACK COVER MODULE	39-42101-021	MAXDATA
20	2.4G DIPOLE ANTENNA (2WIRE ASSEMBLY)	23-712R4-001	

LCD 15" (4200M)

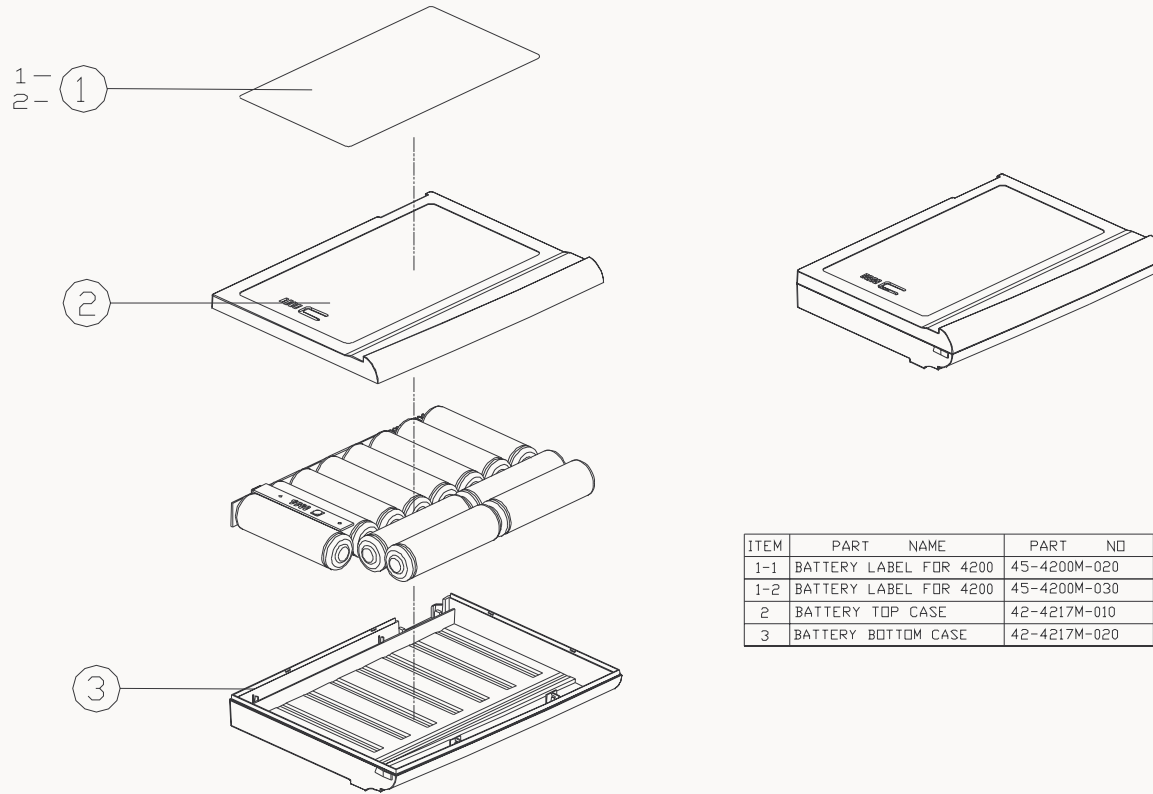


ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-32001-020	
2	LCD FRONT COVER 15" MODULE	39-42101-110	MAXDATA
3	SCREW M2.5*5L K1 BNI ICT NY	35-B9125-5R0	
4-1	LCD T IBM 1TSX93C/E 15.0" SXGA+	50-L5275-E00	
4-2	LCD 15" HYUNDAI HT15P11 SXGA+	50-L5275-H00	
4-3	LCD T CPT CLAA150PA01 15" SXGA+7.0MM	50-L5270-C00	
5-1	LCD CABLE FOR IBM 15"	43-42001-130	IBM
5-2	LCD WIRE CABLE FOR 15" HYUNDAI	43-42001-030	HYUNDAI
5-3	LCD CABLE FOR 15" CPT	43-42001-110	CPT
6-1	PDRON 16*6*0.8mm FOR UNIPAC 14.1"	47-42091-030	IBM
6-2	PDRON 16*6*2 FOR 15" CPT	47-42091-040	CPT/HYUNDAI
7	銅箔 FOR LCD FRONT COVER	40-42031-010	
8	SCREW M2*2L K1 BZ ICT NY	35-B6120-2R0	
9-1	LCD HINGE-R 15" IBM FOR 4200	33-42001-120	
9-2	LCD HINGE-R 15" FOR HYUNDAI 4200	33-42001-220	
9-3	LCD HINGE-R 15" FOR CPT 4200	33-42001-320	
10	LCD CLAMPING FOR 4200	33-42001-040	
11	HINGE COVER FOR 4200	42-4217Y-011	
12	4200 15" LCD BACK COVER 銅箔	40-42031-111	
13	INVERTER BOARD	77-4200R-DOX	
14	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FOR INVERTER	43-4200R-010	
16-1	LCD BRACKET FOR 14.1" (W/D SPONGE)	33-42001-051	IBM/CPT
16-2	LCD BRACKET	33-42001-050	HYUNDAI
17	NAME PLATE FOR MAXDATA	45-42102-000	
18-1	LCD HINGE-L 15" FOR IBM 4200	33-42001-130	
18-2	LCD HINGE-L 15" FOR HYUNDAI 4200	33-42001-230	
18-3	LCD HINGE-L 15" FOR CPT 4200	33-42001-330	
19	LCD BACK COVER MODULE 15"	39-42101-121	MAXDATA
20	2.4G DIPOLE ANTENNA (2WIRE ASSEMBLY)	23-712R4-001	
21	LCD BACK COVER SPONGE	47-42091-010	IBM
22	GASKET(175*8*1T)	47-00190-H50	

Figure 1 - 15
LCD 15" (4200M)

Battery (4200M)

Figure 1 - 16
Battery (4200M)



ITEM	PART NAME	PART NO	REMARK
1-1	BATTERY LABEL FOR 4200	45-4200M-020	德臻
1-2	BATTERY LABEL FOR 4200	45-4200M-030	新普
2	BATTERY TOP CASE	42-4217M-010	
3	BATTERY BOTTOM CASE	42-4217M-020	

CD-ROM Drive (4200M)

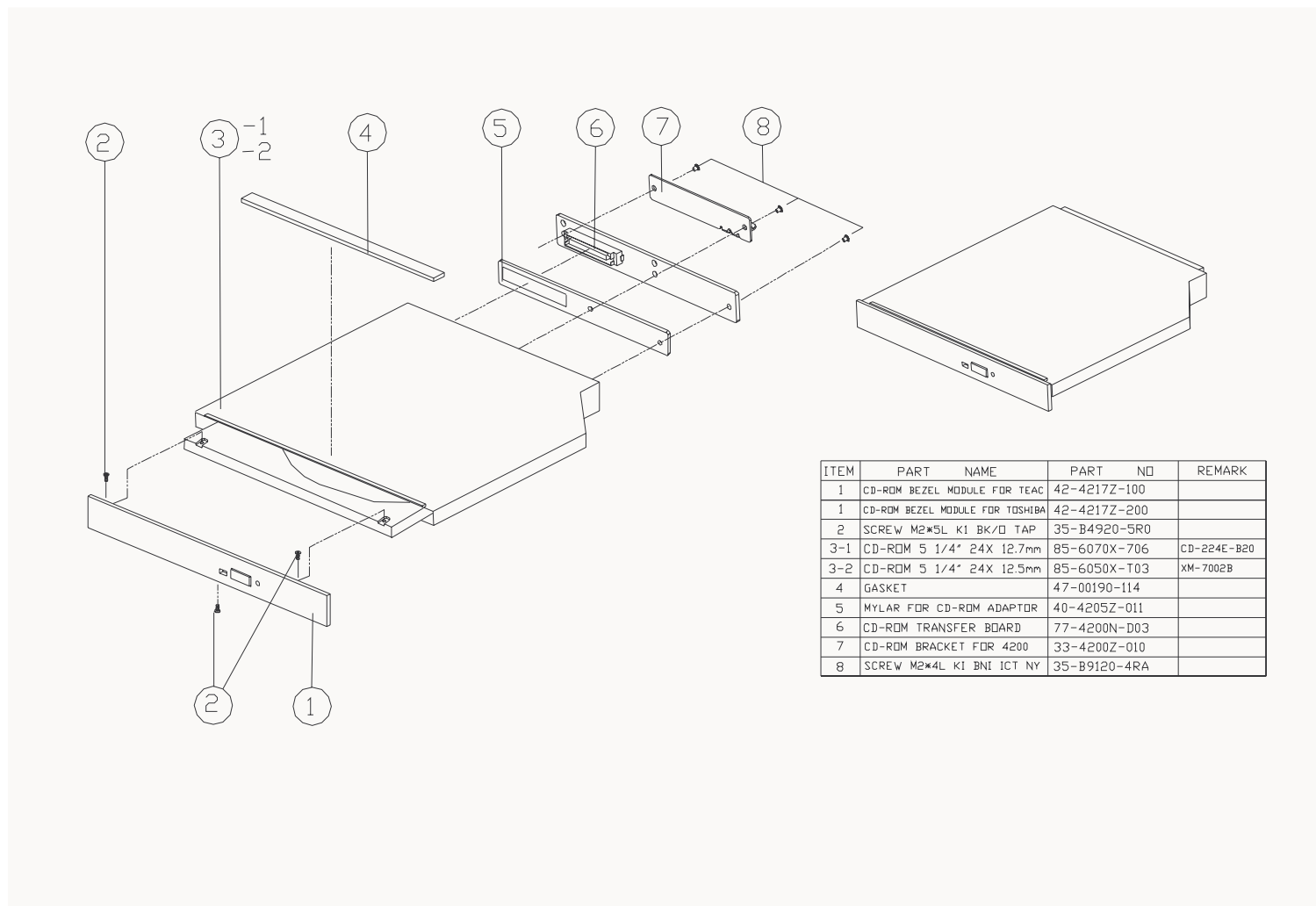


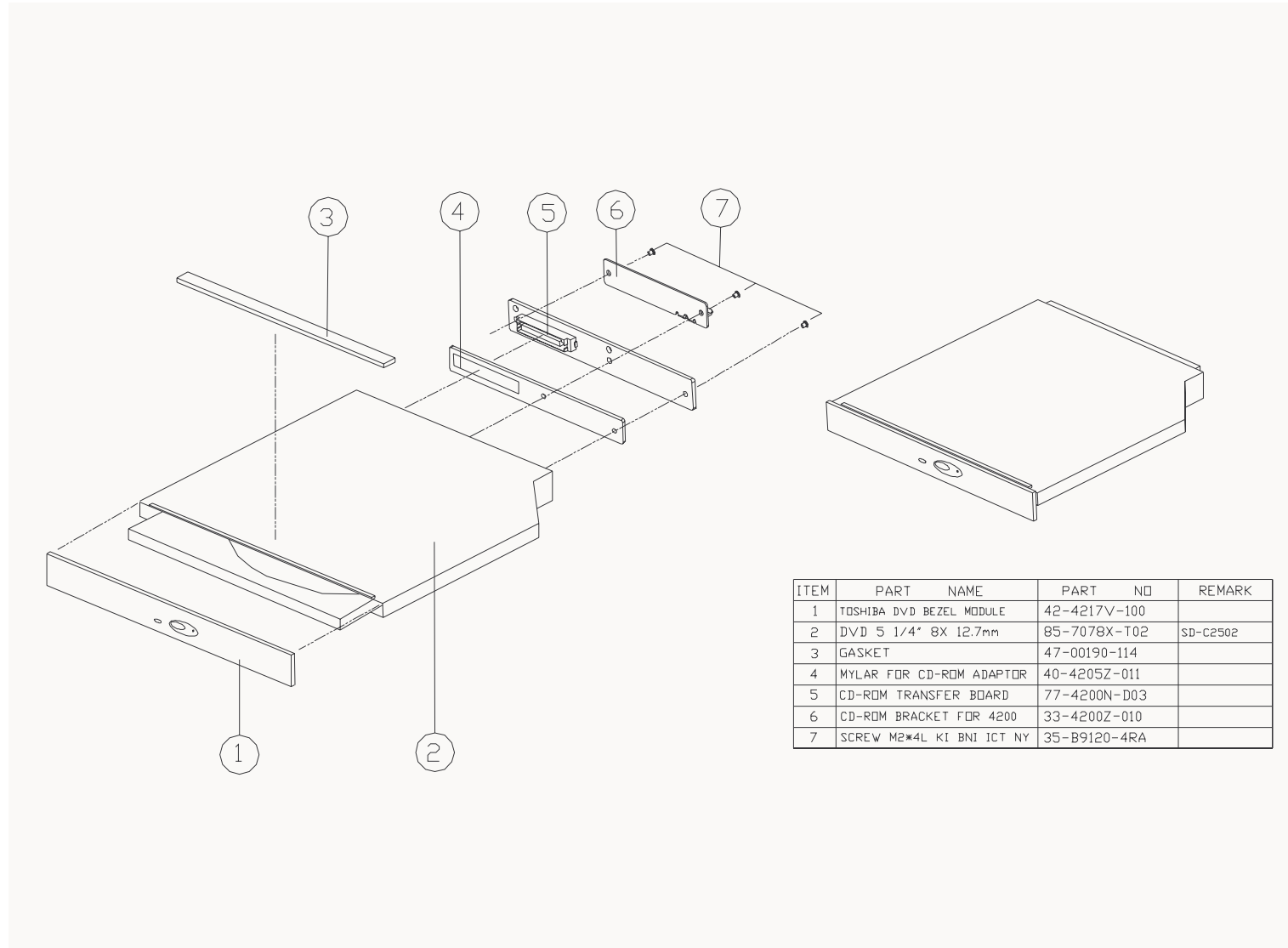
Figure 1 - 17
CD-ROM Drive
(4200M)

ITEM	PART NAME	PART NO	REMARK
1	CD-ROM BEZEL MODULE FOR TEAC	42-4217Z-100	
1	CD-ROM BEZEL MODULE FOR TOSHIBA	42-4217Z-200	
2	SCREW M2*5L K1 BK/D TAP	35-B4920-5R0	
3-1	CD-ROM 5 1/4" 24X 12.7mm	85-6070X-706	CD-224E-B20
3-2	CD-ROM 5 1/4" 24X 12.5mm	85-6050X-T03	XM-7002B
4	GASKET	47-00190-114	
5	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
6	CD-ROM TRANSFER BOARD	77-4200N-D03	
7	CD-ROM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	

Part Lists

DVD-ROM Drive (4200M)

Figure 1 - 18
DVD-ROM Drive
(4200M)



ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA DVD BEZEL MODULE	42-4217V-100	
2	DVD 5 1/4" 8X 12.7mm	85-7078X-T02	SD-C2502
3	GASKET	47-00190-114	
4	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
5	CD-ROM TRANSFER BOARD	77-4200N-D03	
6	CD-ROM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

CD-RW Drive (4200M)

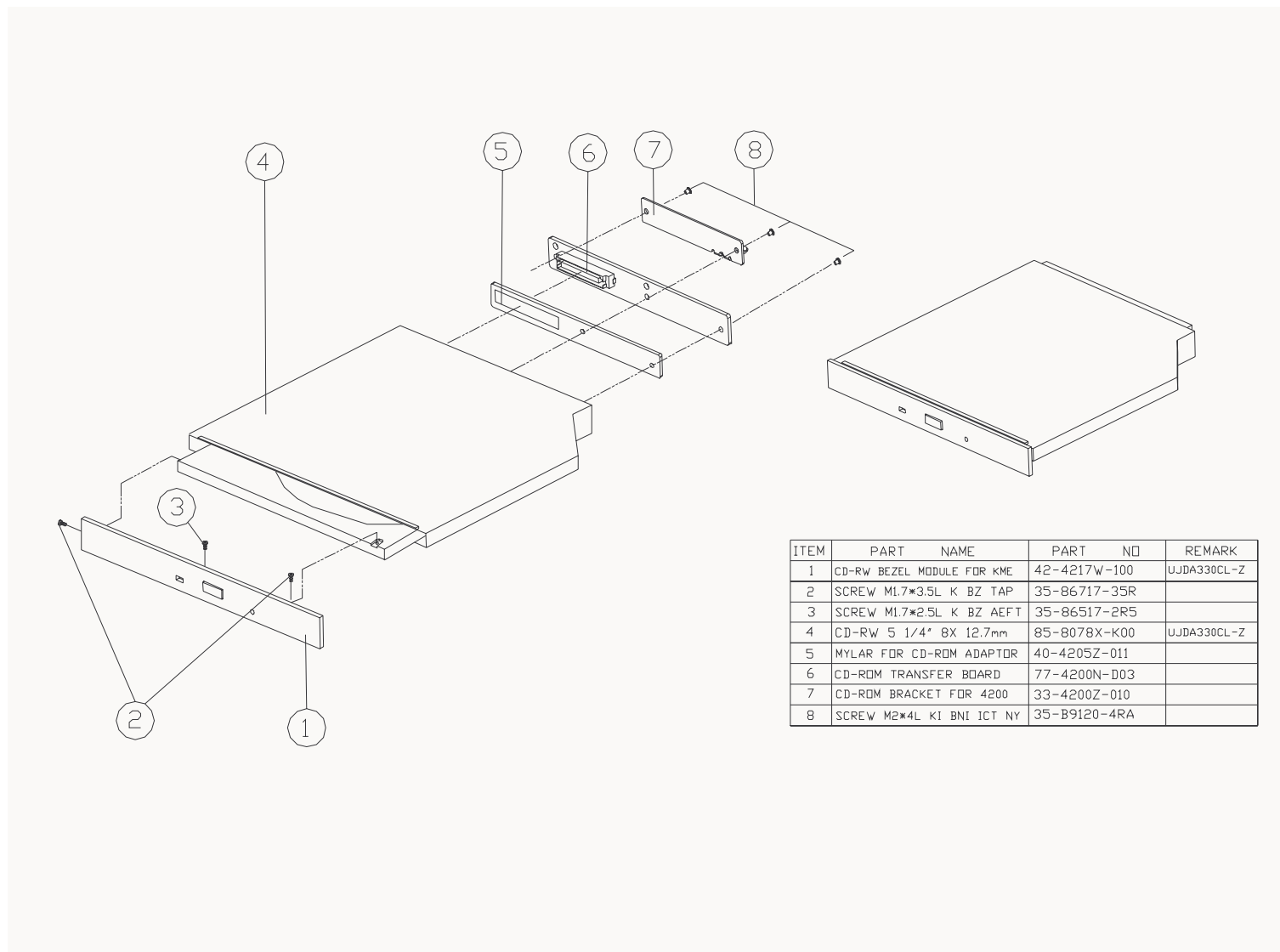


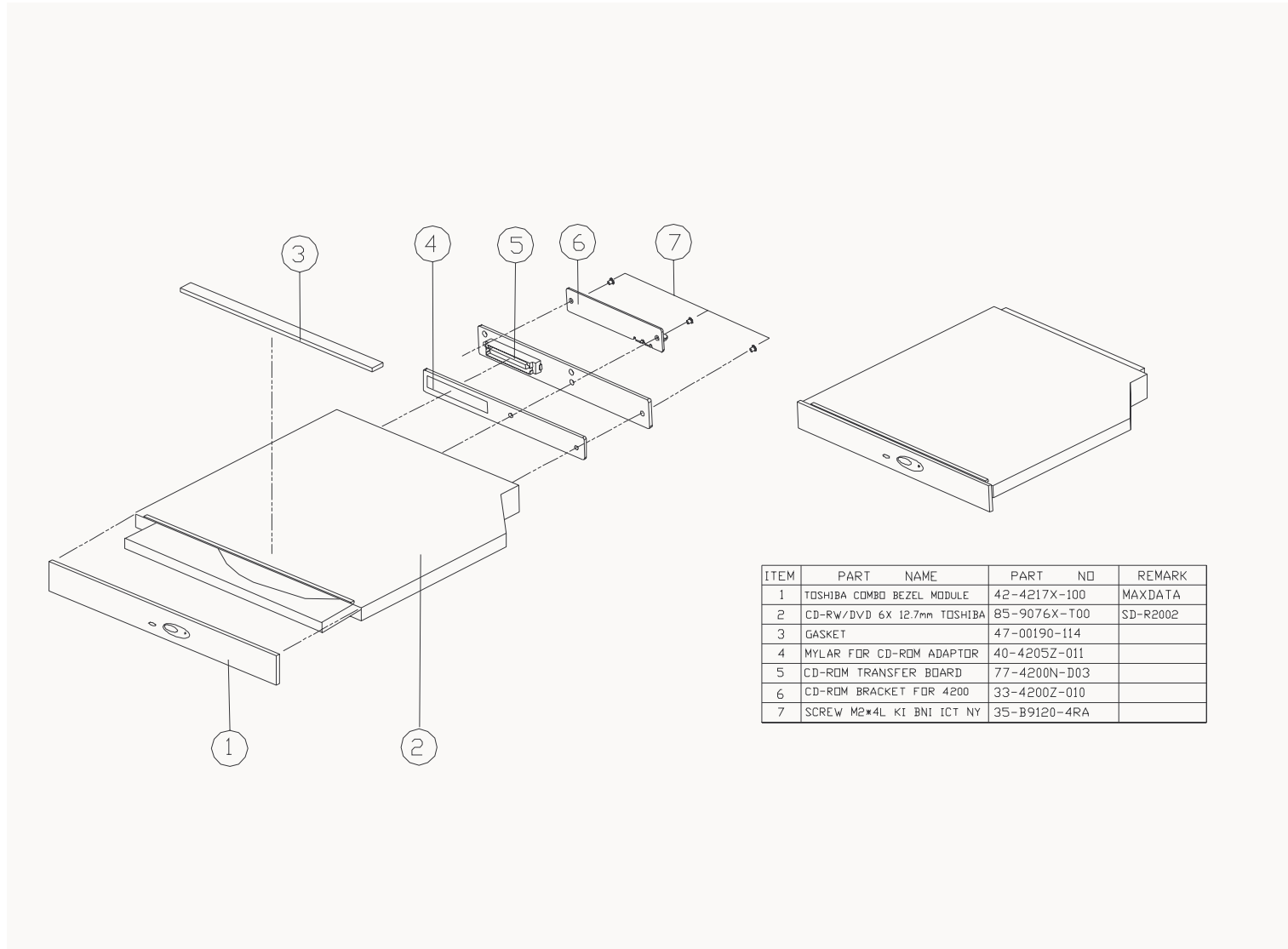
Figure 1 - 19
CD-RW Drive
(4200M)

ITEM	PART NAME	PART NO	REMARK
1	CD-RW BEZEL MODULE FOR KME	42-4217W-100	UJDA330CL-Z
2	SCREW M1.7*3.5L K BZ TAP	35-86717-35R	
3	SCREW M1.7*2.5L K BZ AEFT	35-86517-2R5	
4	CD-RW 5 1/4" 8X 12.7mm	85-8078X-K00	UJDA330CL-Z
5	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
6	CD-ROM TRANSFER BOARD	77-4200N-D03	
7	CD-ROM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	

Part Lists

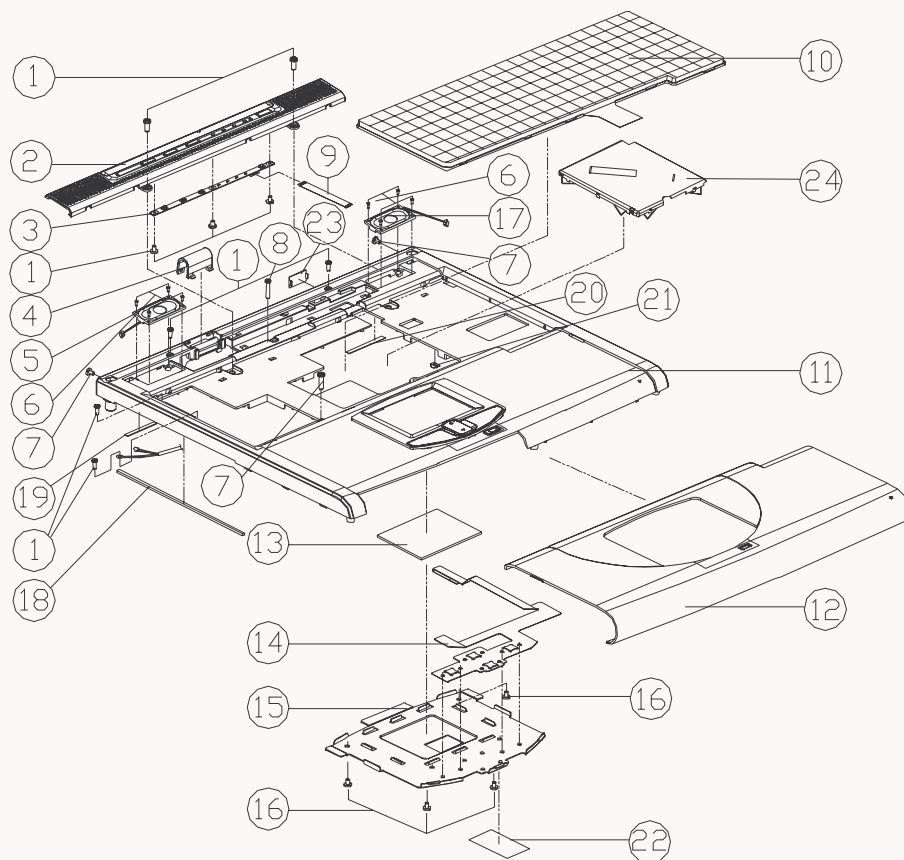
Combo Drive (4200M)

Figure 1 - 20
Combo Drive
(4200M)



ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA COMBO BEZEL MODULE	42-4217X-100	MAXDATA
2	CD-RW/DVD 6X 12.7mm TOSHIBA	85-9076X-T00	SD-R2002
3	GASKET	47-00190-I14	
4	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
5	CD-ROM TRANSFER BOARD	77-4200N-D03	
6	CD-ROM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Top Assembly (4600)



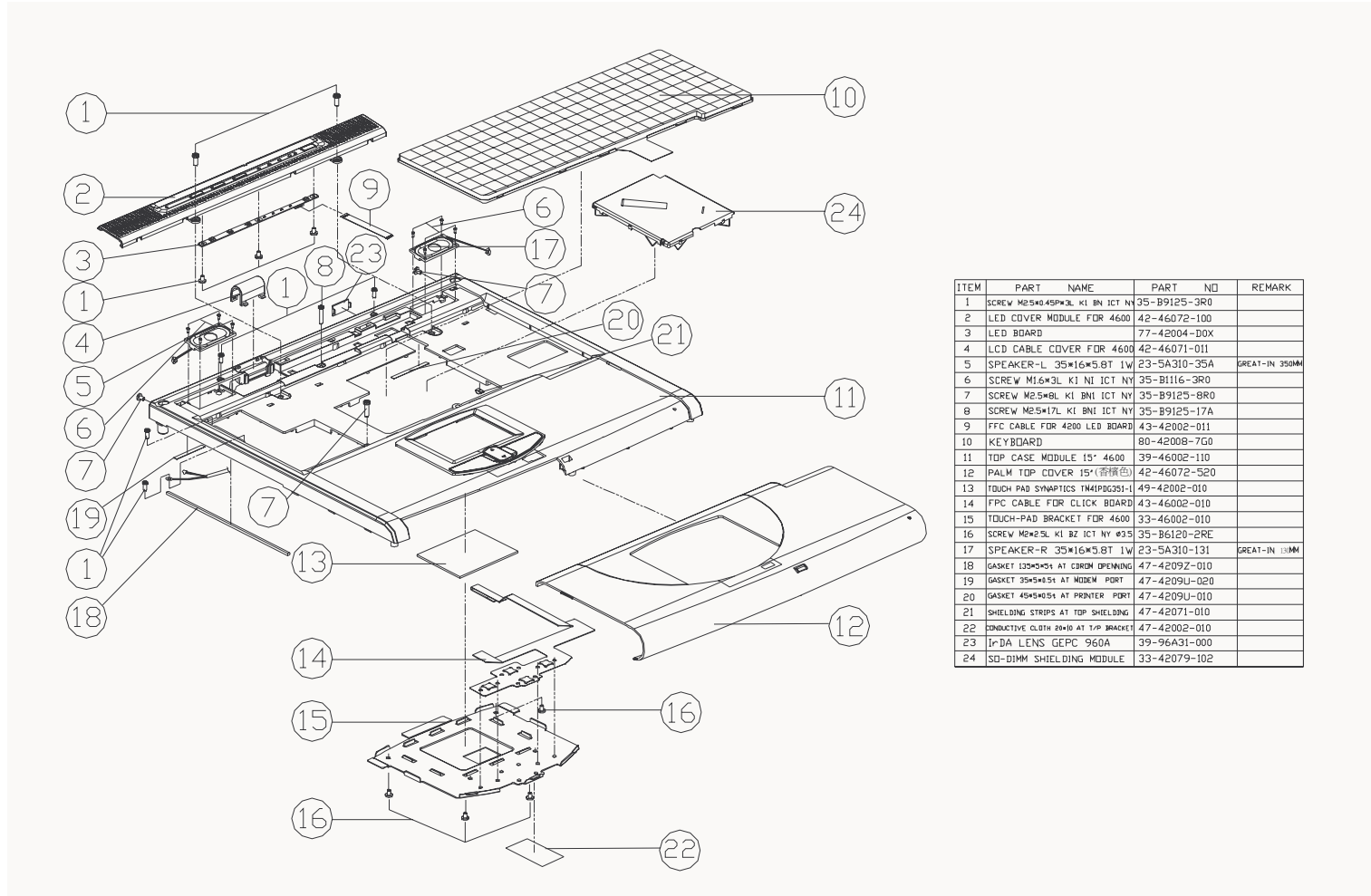
ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5x0.45Px3L KI BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE FDR 4600	42-46072-100	
3	LED BOARD	77-42004-D0X	
4	LCD CABLE COVER FDR 4600	42-46071-011	
5	SPEAKER-L 35*16*5.8T LW	23-5A310-35A	GREAT-IN 350MM
6	SCREW M1.6x3L KI NI ICT NY	35-B1116-3R0	
7	SCREW M2.5x3L KI BN1 ICT NY	35-B9125-BR0	
8	SCREW M2.5x1.7L KI BN1 ICT NY	35-B9125-17A	
9	FPC CABLE FDR 4200 LED BOARD	43-42002-011	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE FDR 4600	39-46002-011	
12	PALM TOP COVER (香横色)	42-46072-030	
13	TOUCH PAD SYMPATICS TM4PBG351-1	49-42002-010	
14	FPC CABLE FDR CLICK BOARD	43-46002-010	
15	TOUCH-PAD BRACKET FDR 4600	33-46002-010	
16	SCREW M2x2.5L KI BZ ICT NY #3.5	35-B6120-2RE	
17	SPEAKER-R 35*16*5.8T LW	23-5A310-13I	GREAT-IN 135MM
18	GASKET 135x45x1 AT CORNR OPENING	47-4209Z-010	
19	GASKET 135x45x1 AT MDEN PORT	47-4209J-020	
20	GASKET 45x45x1 AT PRINTER PORT	47-4209J-010	
21	SHIELDING STRIPS AT TOP SHIELDING	47-4207J-010	
22	CONDUCTIVE CLOTH 80x80 AT T/P BRACKET	47-42002-010	
23	J-DA LENS GEPC 960A	39-96A31-000	
24	SO-DIMM SHIELDING MODULE	33-42079-102	

Figure 1 - 21
Top Assembly
(4600)

Part Lists

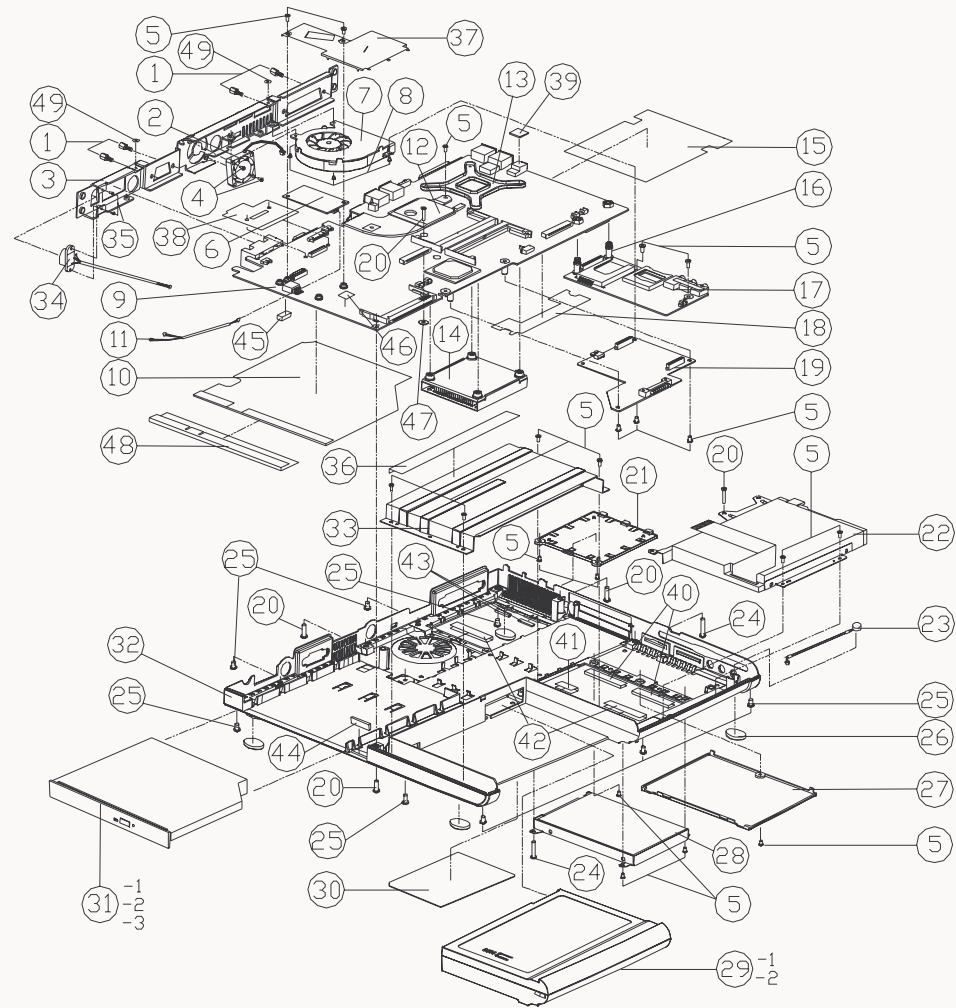
Top Assembly (4600 15")

Figure 1 - 22
Top Assembly
(4600 15")



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5*0.45*P.3. KI BN ICT NY	35-B9125-3R0	
2	LED COVER MODULE FOR 4600	42-46072-100	
3	LED BOARD	77-42004-D0X	
4	LCD CABLE COVER FOR 4600	42-46071-011	
5	SPEAKER-L 35*16*5.8T 1W	23-5A310-35A	GREAT-IN 350MM
6	SCREW M1.6*3L KI NI ICT NY	35-B1116-3R0	
7	SCREW M2.5*8L KI BN ICT NY	35-B9125-8R0	
8	SCREW M2.5*17L KI BN ICT NY	35-B9125-17A	
9	FFC CABLE FOR 4200 LED BOARD	43-42002-011	
10	KEYBOARD	80-42008-7G0	
11	TOP CASE MODULE 15" 4600	39-46002-110	
12	PALM TOP COVER 15"(青绿色)	42-46072-520	
13	TOUCH PAD SYNAPTICS FM41P0C351-L	49-42002-010	
14	FPC CABLE FOR CLICK BOARD	43-46002-010	
15	TOUCH-PAD BRACKET FOR 4600	33-46002-010	
16	SCREW M2*2.5L KI BZ ICT NY #3.5	35-B6120-2RE	
17	SPEAKER-R 35*16*5.8T 1W	23-5A310-131	GREAT-IN 130MM
18	GASKET 135*5*0.5 AT CORN OPENING	47-4209Z-010	
19	GASKET 35*5*0.5 AT MODEM PORT	47-4209U-020	
20	GASKET 45*5*0.5 AT PRINTER PORT	47-4209U-010	
21	SHIELDING STRIPS AT TOP SHIELDING	47-42071-010	
22	CONDUCTIVE CLOTH 28*10 AT TP BRACKET	47-42002-010	
23	Ir-DA LENS GEPC 960A	39-96A31-000	
24	SD-DIMM SHIELDING MODULE	33-42079-102	

Bottom Assembly (4600)



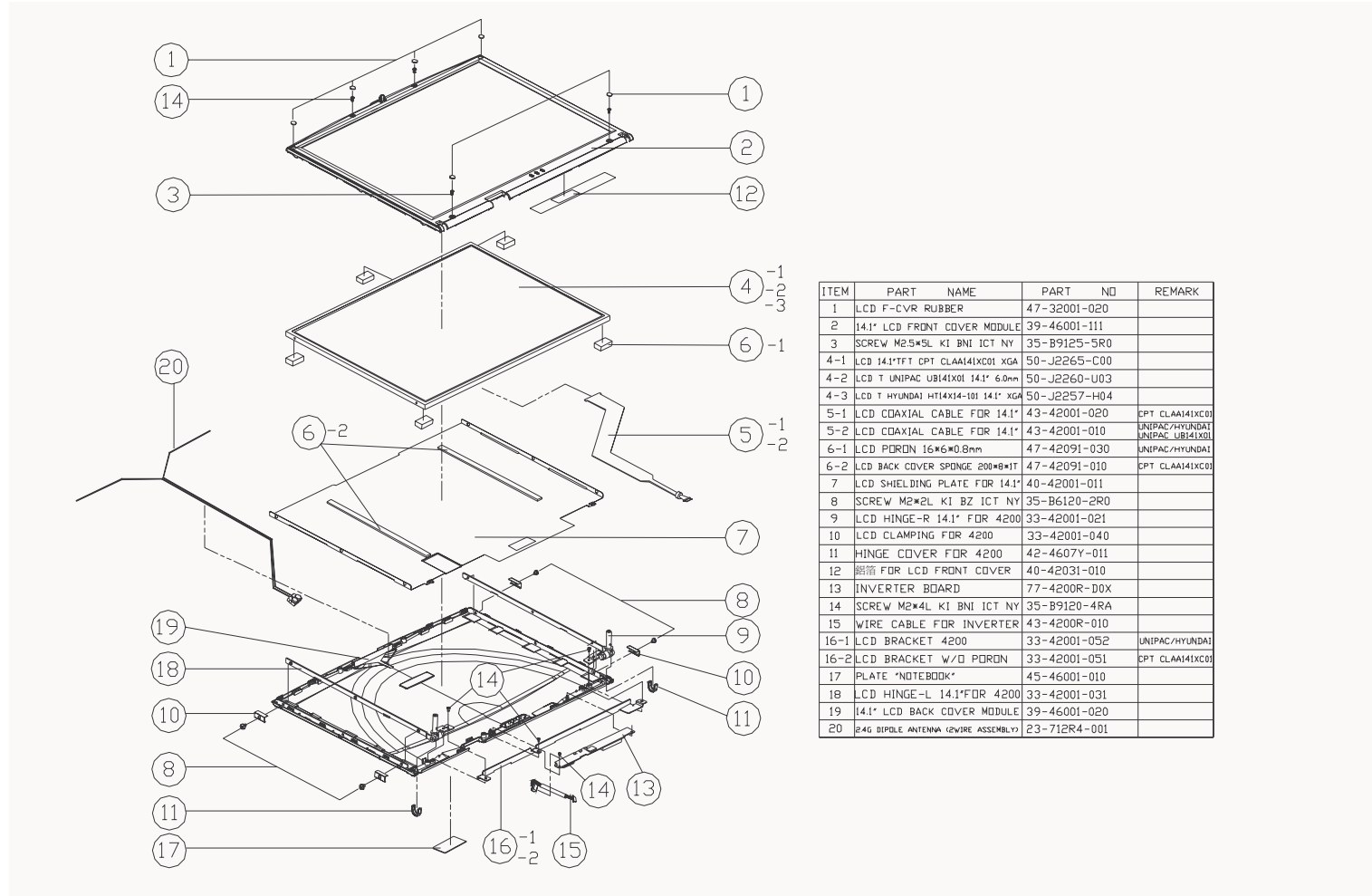
ITEM	PART NAME	PART NO	REMARK
1	HEX STUD SLM22 NI-PL 10mm	34-96002-000	
2	FAN 25x25x6.5T 5V 0.09A CDN	23-A2514-050	
3	I/O BRACKET FDR 4200	33-4200S-011	
4	SCREW M2x4L K1 BNI ICT NY	35-B9120-4RA	
5	SCREW M2.5x4.5Px3L K1 BNI ICT NY	35-B9125-3R0	
6	MDC MODEM MODULE	76-32200-003	
7	FAN 45x45x10T 5V 0.2A+CDN APOWFR	23-A4511-461	
8	SCREW M2.5x5L K1 BNI ICT NY	35-B9125-5R0	
9	MAIN BOARD	77-42000-D03	
10	CD ROM MYLAR CN MB FDR 4200	40-4205S-021	
11	CABLE FDR MDC TO M/B	43-4200Z-012	
12	ALMADDR HEATSINK FDR 4200	31-4200N-011	
13	CPU SUPPORT FDR 4200	33-42009-050	
14	CPU HEATSINK MODULE FDR 4200	31-4200N-100	
15	PCMCIA MYLAR FDR 4200	40-4205P-010	
16	AUDIO 3RD NUT 4.5M 2.0H FDR 4200	36-01311-450	
17	AUDIO BOARD	77-42008-D0X	
18	HDD CONNECTOR MYLAR FDR 4200	40-42051-010	
19	POWER BOARD	77-4200C-D0X	
20	SCREW M2.5x17L K1 BNI ICT NY	35-B9125-17A	
21	CPU COVER MODULE	42-46079-101	
22	FDD ASS'Y 4200	79-4202J-010	Reference Ass'y Bsp C99-4200S-1800
23	MIC 6MM 10V-2V 2.2K W/CABLE	23-E0602-222	
24	SCREW M2.5x20L K1 BNI ICT NY	35-B9125-200	
25	SCREW M2.5x8L K1 BNI ICT NY	35-B9125-8R0	
26	RUBBER FOOT V10 SILICONE 320	47-32001-011	
27	HDD COVER MODULE	42-46071-101	
28	W/D HDD ASS'Y 4200	79-42021-010	Reference Ass'y Bsp C99-4200S-0401
29-1	BATTERY ASS'Y 4200(PANASONIC)	87-4608S-4C7	Reference Ass'y Bsp C99-4600S-0501
29-2	BATTERY ASS'Y 4200(PANASONIC)	87-4608S-457	Reference Ass'y Bsp C99-4600S-0501
30	PRODUCT LABEL FDR 4600	45-46003-010	
31-1	CD-RDM ASS'Y 4200	79-4602Z-010	Reference Ass'y Bsp C99-4600S-0503
31-2	CD-RW ASS'Y 4200	79-4602V-010	Reference Ass'y Bsp C99-4600S-0501
31-3	DVD ASS'Y 4200	79-4602V-010	Reference Ass'y Bsp C99-4600S-0501
32	BOTTOM CASE MODULE	39-46003-011	
33	BATTERY BRACKET(AL)	33-4200M-011	
34	CABLE FDR DC JACK 2P	43-4200Z-022	
35	SCREW M2x4L K1 BNI ICT NY	35-B9120-4RA	
36	CONDUCTIVE CLOTH 15x20 AT BATTERY BRACKET	47-4200M-010	
37	MINI PCI SHIELDING MODULE	33-4200P-011	
38	LCD CONNECTOR MYLAR	40-42051-010	
39	GASKET 10x7x1T AT 1394 PORT	47-4209P-010	
40	CONDUCTIVE CLOTH 40x18 AT HDD DOOR	47-42001-010	
41	CONDUCTIVE CLOTH 25x18 AT HDD DOOR	47-42001-020	
42	CONDUCTIVE CLOTH 45x18 AT CPU DOOR	47-42001-030	
43	CONDUCTIVE CLOTH 18x15 AT CPU DOOR	47-4200S-010	
44	GASKET 25x5x7T AT CDROM OPENING	47-4209Z-020	
45	GASKET 18x3x3D AT USB PORT	47-4209P-020	
46	BIOS LABEL(Phone My BIOS PENTLUM PSIV)	45-85V09-011	
47	MYLAR WASHER AT P/B BOSS	40-0015Y-010	
48	MB LEFT MYLAR W/ CONDUCTIVE CLOTH	40-4205S-030	
49	WASHER #5x#0.5x0.4t (MYLAR)	37-02000-501	

Figure 1 - 23
Bottom Assembly
(4600)

Part Lists

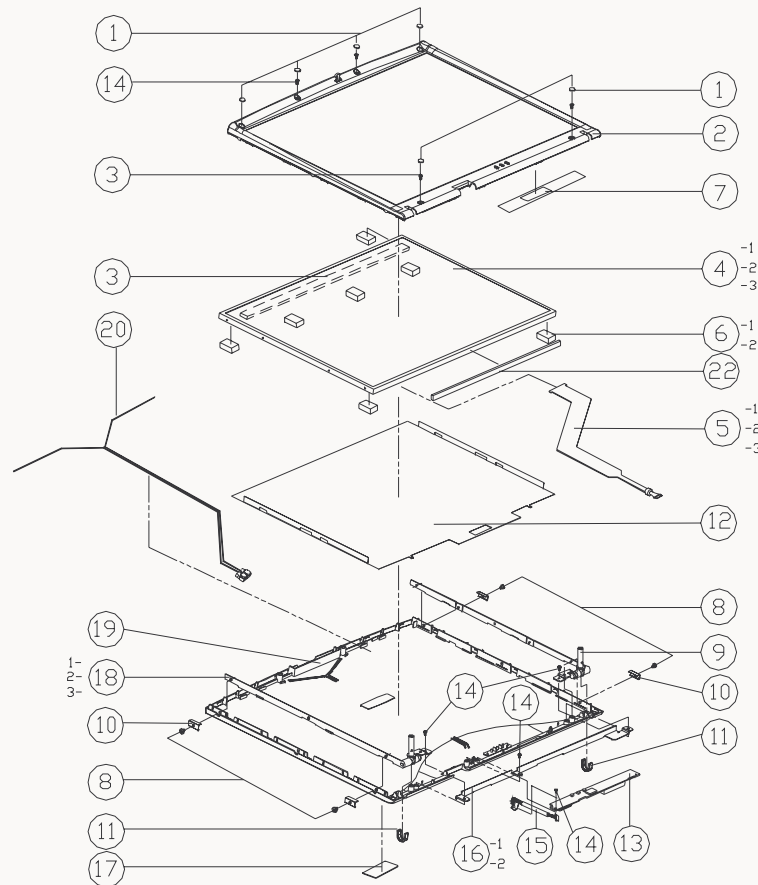
LCD 14" (4600)

Figure 1 - 24
LCD 14" (4600)



ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-32001-020	
2	14.1" LCD FRONT COVER MODULE	39-46001-111	
3	SCREW M2.5*5L KI BNI ICT NY	35-B9125-5R0	
4-1	LCD 14.1" TFT CPT CLAA141XC01 XGA	50-J2265-C00	
4-2	LCD T UNIPAC UB141X01 14.1" 6.0mm	50-J2260-U03	
4-3	LCD T HYUNDAI HT14X14-101 14.1" XGA	50-J2257-H04	
5-1	LCD COAXIAL CABLE FDR 14.1"	43-42001-020	CPT CLAA141XC01
5-2	LCD COAXIAL CABLE FDR 14.1"	43-42001-010	UNIPAC/HYUNDAI
6-1	LCD PDRDN 16*6*0.8mm	47-42091-030	UNIPAC/HYUNDAI
6-2	LCD BACK COVER SPONGE 200*8*1T	47-42091-010	CPT CLAA141XC01
7	LCD SHIELDING PLATE FDR 14.1"	40-42001-011	
8	SCREW M2*2L KI BZ ICT NY	35-B6120-2R0	
9	LCD HINGE-R 14.1" FDR 4200	33-42001-021	
10	LCD CLAMPING FDR 4200	33-42001-040	
11	HINGE COVER FDR 4200	42-4607Y-011	
12	铰链 FDR LCD FRONT COVER	40-42031-010	
13	INVERTER BOARD	77-4200R-D0X	
14	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FDR INVERTER	43-4200R-010	
16-1	LCD BRACKET 4200	33-42001-052	UNIPAC/HYUNDAI
16-2	LCD BRACKET W/O PDRDN	33-42001-051	CPT CLAA141XC01
17	PLATE *NOTEBOOK*	45-46001-010	
18	LCD HINGE-L 14.1" FDR 4200	33-42001-031	
19	14.1" LCD BACK COVER MODULE	39-46001-020	
20	24G DIPOLE ANTENNA (2WIRE ASSEMBLY)	23-712R4-001	

LCD 15" (4600)

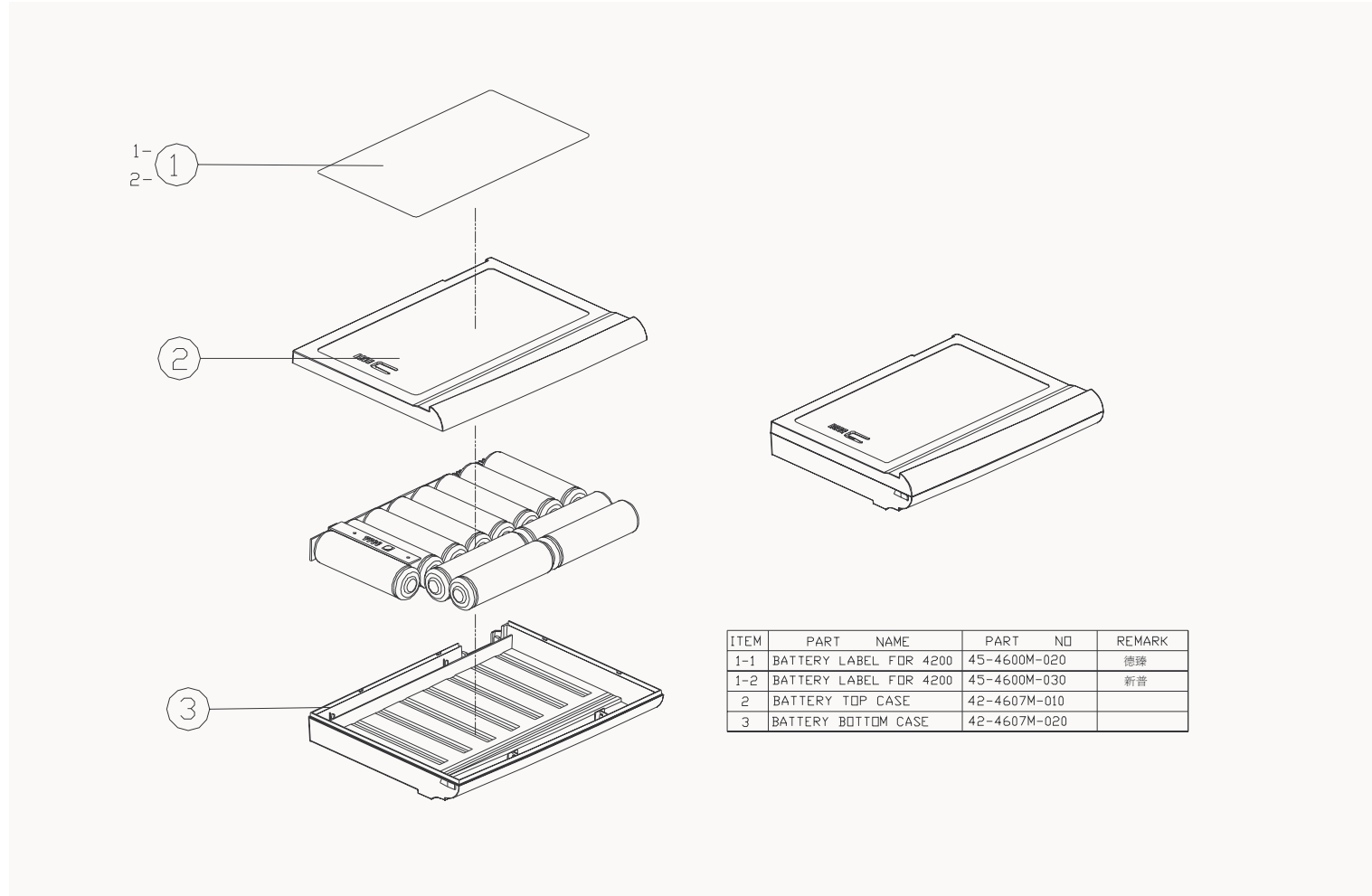


ITEM	PART NAME	PART NO	REMARK
1	LCD F-CVR RUBBER	47-32001-020	
2	LCD FRONT COVER 15" MODULE	39-46001-111	
3	SCREW M2.5*5L KI BNI ICT NY	35-B9125-5R0	
4-1	LCD T IBM ITSX93C/E 15.0" SXGA+	50-L5275-E00	
4-2	LCD 15" T HYUNDAI HT15P11 SXGA+	50-L5275-H00	
4-3	LCD T CPT CLM15DPAD1 15" SXGA+7.0MM	50-L5270-C00	
5-1	LCD CABLE FDR IBM 15"	43-42001-130	IBM
5-2	LCD WIRE CABLE FDR 15" HYUNDAI	43-42001-030	HYUNDAI
5-3	LCD CABLE FDR 15" CPT	43-42001-110	CPT
6-1	PDRON 16*6*08mm FOR UNIPAC 14.1"	47-42091-030	IBM
6-2	PDRON 16*6*2 FOR 15" CPT	47-42091-040	CPT/HYUNDAI
7	銅箔 FDR LCD FRONT COVER	40-42031-010	
8	SCREW M2*2L KI BZ ICT NY	35-B6120-2R0	
9-1	LCD HINGE-R 15" IBM FDR 4200	33-42001-120	
9-2	LCD HINGE-R 15" FDR HYUNDAI 4200	33-42001-220	
9-3	LCD HINGE-R 15" FDR CPT 4200	33-42001-320	
10	LCD CLAMPING FDR 4200	33-42001-040	
11	HINGE COVER FDR 4200	42-4207Y-011	
12	4200 15" LCD BACK COVER 銅箔	40-42031-111	
13	INVERTER BOARD	77-4200R-DOX	
14	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	
15	WIRE CABLE FOR INVERTER	43-4200R-010	
16-1	LCD BRACKET FDR 14.1" (V/D SPONGE)	33-42001-051	IBM/CPT
16-2	LCD BRACKET	33-42001-052	HYUNDAI
17	PLATE "NOTEBOOK"	45-46001-010	
18-1	LCD HINGE-L 15" FDR IBM 4200	33-42001-130	
18-2	LCD HINGE-L 15" FDR HYUNDAI 4200	33-42001-230	
18-3	LCD HINGE-L 15" FDR CPT 4200	33-42001-330	
19	LCD BACK COVER MODULE 15"	39-46001-121	
20	2.4G DIPOLE ANTENNA (WIRE ASSEMBLY)	23-712R4-001	
21	LCD BACK COVER SPONGE	47-42091-010	IBM
22	GASKET(175*8*1T)	47-00190-H50	

Figure 1 - 25
LCD 15" (4600)

Battery (4600)

Figure 1 - 26
Battery (4600)



ITEM	PART NAME	PART NO	REMARK
1-1	BATTERY LABEL FOR 4200	45-4600M-020	德臻
1-2	BATTERY LABEL FOR 4200	45-4600M-030	新普
2	BATTERY TOP CASE	42-4607M-010	
3	BATTERY BOTTOM CASE	42-4607M-020	

CD-ROM Drive (4600)

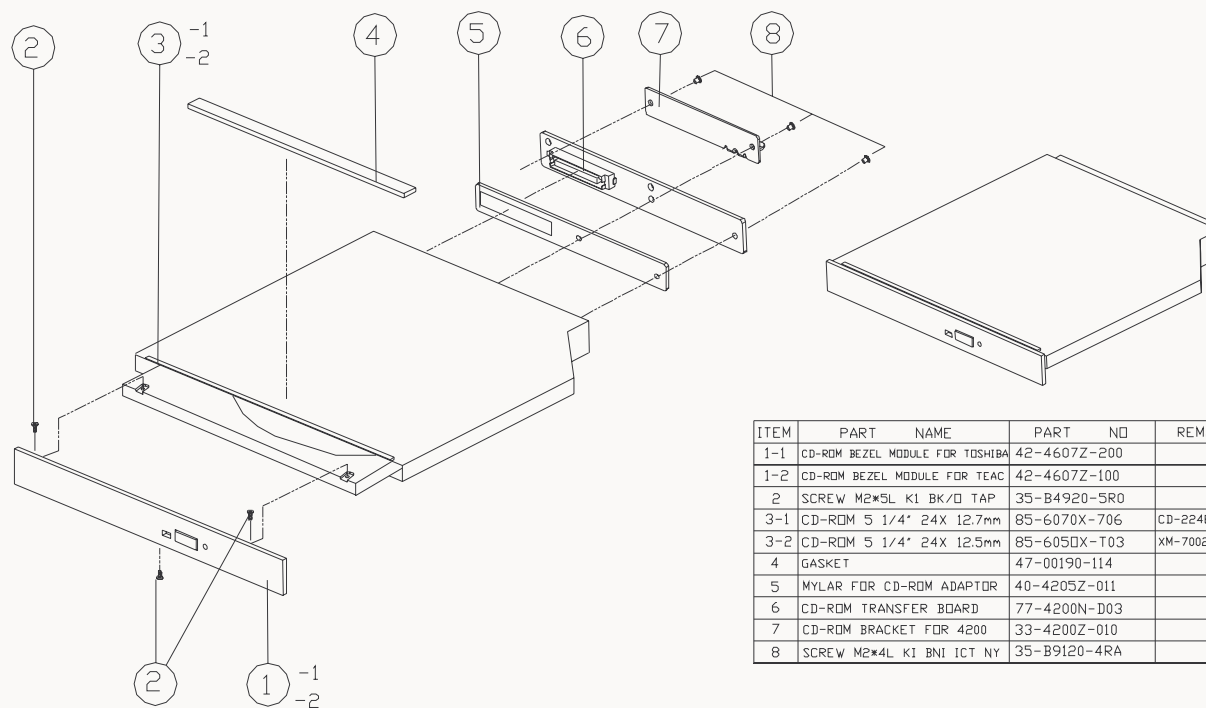


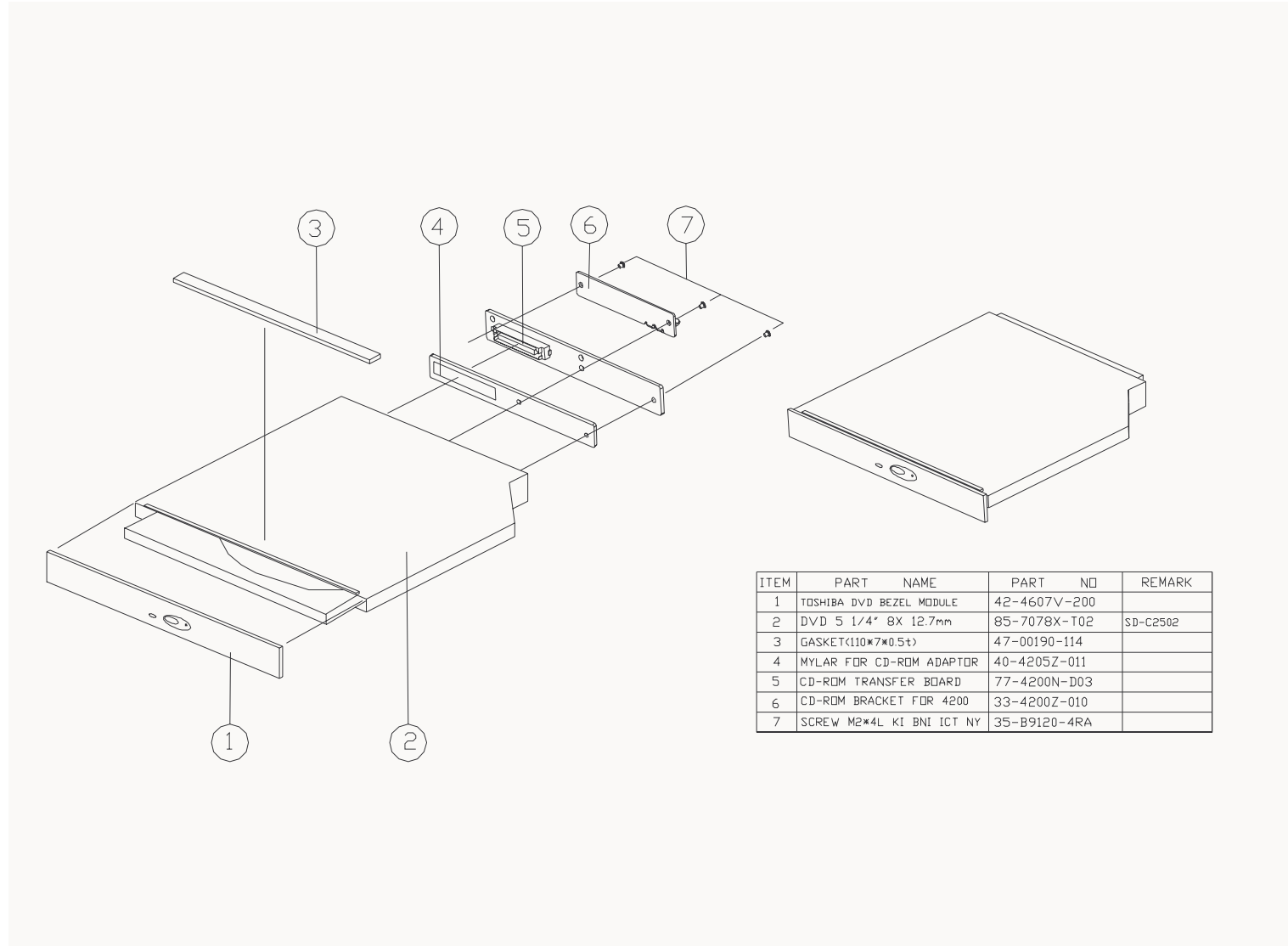
Figure 1 - 27
CD-ROM Drive
(4600)

ITEM	PART NAME	PART NO	REMARK
1-1	CD-ROM BEZEL MODULE FOR TOSHIBA	42-4607Z-200	
1-2	CD-ROM BEZEL MODULE FOR TEAC	42-4607Z-100	
2	SCREW M2*5L K1 BK/D TAP	35-B4920-5R0	
3-1	CD-ROM 5 1/4" 24X 12.7mm	85-6070X-706	CD-224E-B20
3-2	CD-ROM 5 1/4" 24X 12.5mm	85-6050X-T03	XM-7002B
4	GASKET	47-00190-114	
5	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
6	CD-ROM TRANSFER BOARD	77-4200N-D03	
7	CD-ROM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Part Lists

DVD-ROM Drive (4600)

Figure 1 - 28
DVD-ROM Drive
(4600)



ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA DVD BEZEL MODULE	42-4607V-200	
2	DVD 5 1/4" 8X 12.7mm	85-7078X-T02	SD-C2502
3	GASKET<110*7*0.5t>	47-00190-114	
4	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
5	CD-ROM TRANSFER BOARD	77-4200N-D03	
6	CD-ROM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

CD-RW Drive (4600)

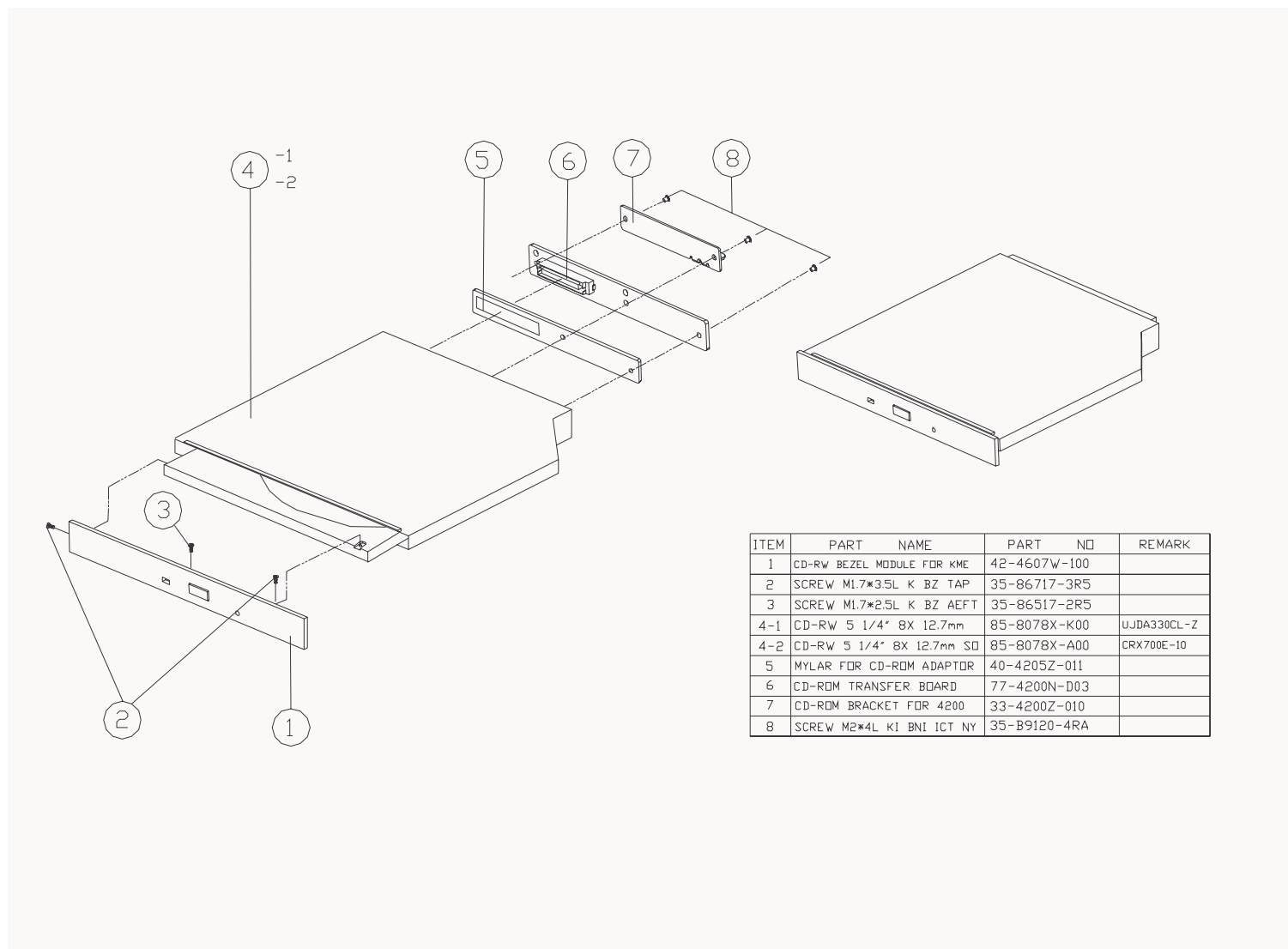


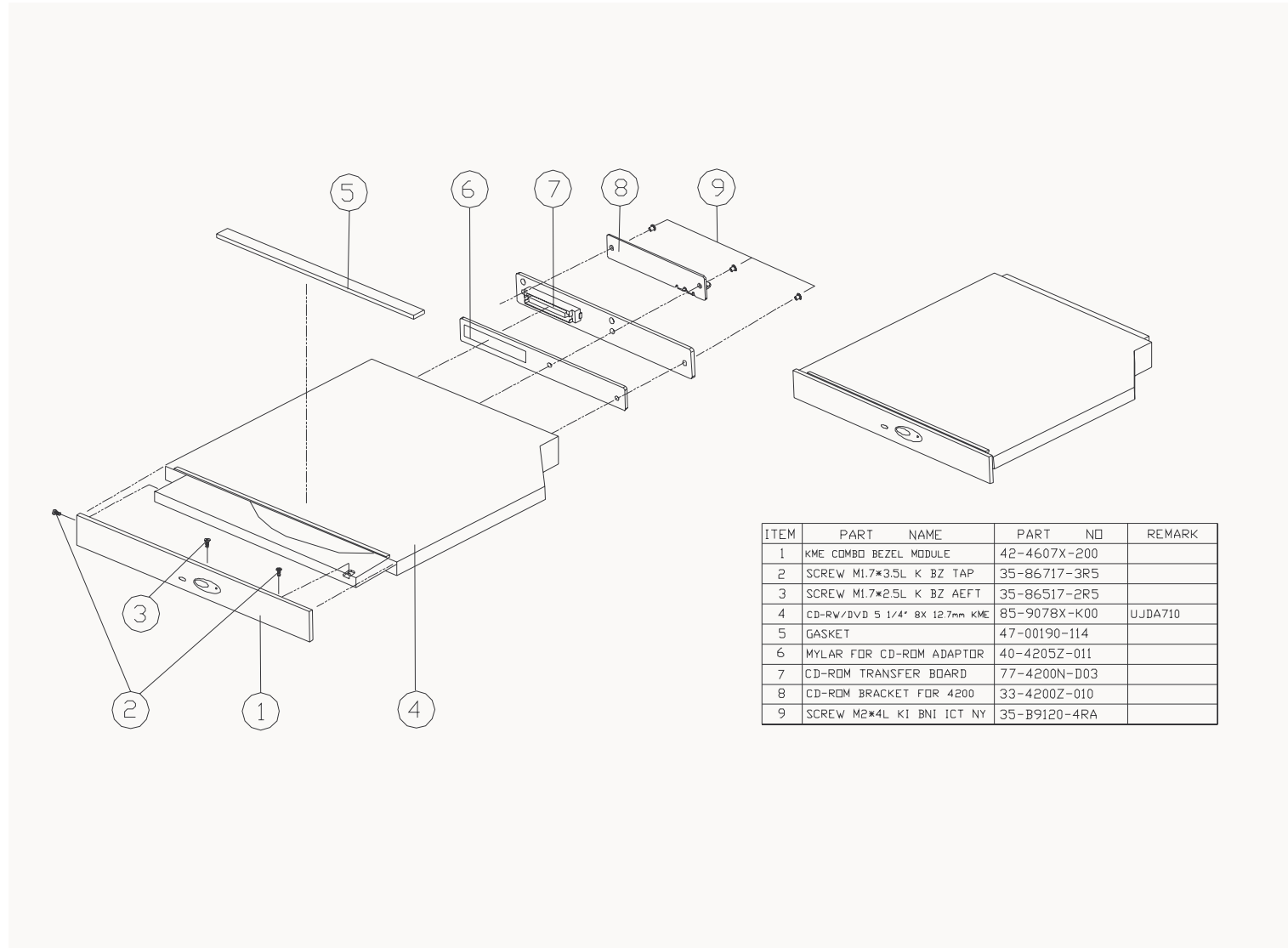
Figure 1 - 29
CD-RW Drive (4600)

ITEM	PART NAME	PART NO	REMARK
1	CD-RW BEZEL MODULE FOR KME	42-4607W-100	
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" 8X 12.7mm	85-8078X-K00	UJDA330CL-Z
4-2	CD-RW 5 1/4" 8X 12.7mm SD	85-8078X-A00	CRX700E-10
5	MYLAR FOR CD-RDM ADAPTOR	40-4205Z-011	
6	CD-RDM TRANSFER BOARD	77-4200N-D03	
7	CD-RDM BRACKET FOR 4200	33-4200Z-010	
8	SCREW M2*4L K1 BNI ICT NY	35-B9120-4RA	

Part Lists

Combo Drive - KME (4600)

Figure 1 - 30
Combo Drive - KME
(4600)



ITEM	PART NAME	PART NO	REMARK
1	KME COMBD BEZEL MODULE	42-4607X-200	
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	CD-RW/DVD 5 1/4" 8X 12.7mm KME	85-9078X-K00	UJDA710
5	GASKET	47-00190-114	
6	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
7	CD-ROM TRANSFER BOARD	77-4200N-D03	
8	CD-ROM BRACKET FOR 4200	33-4200Z-010	
9	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Combo Drive - Toshiba (4600)

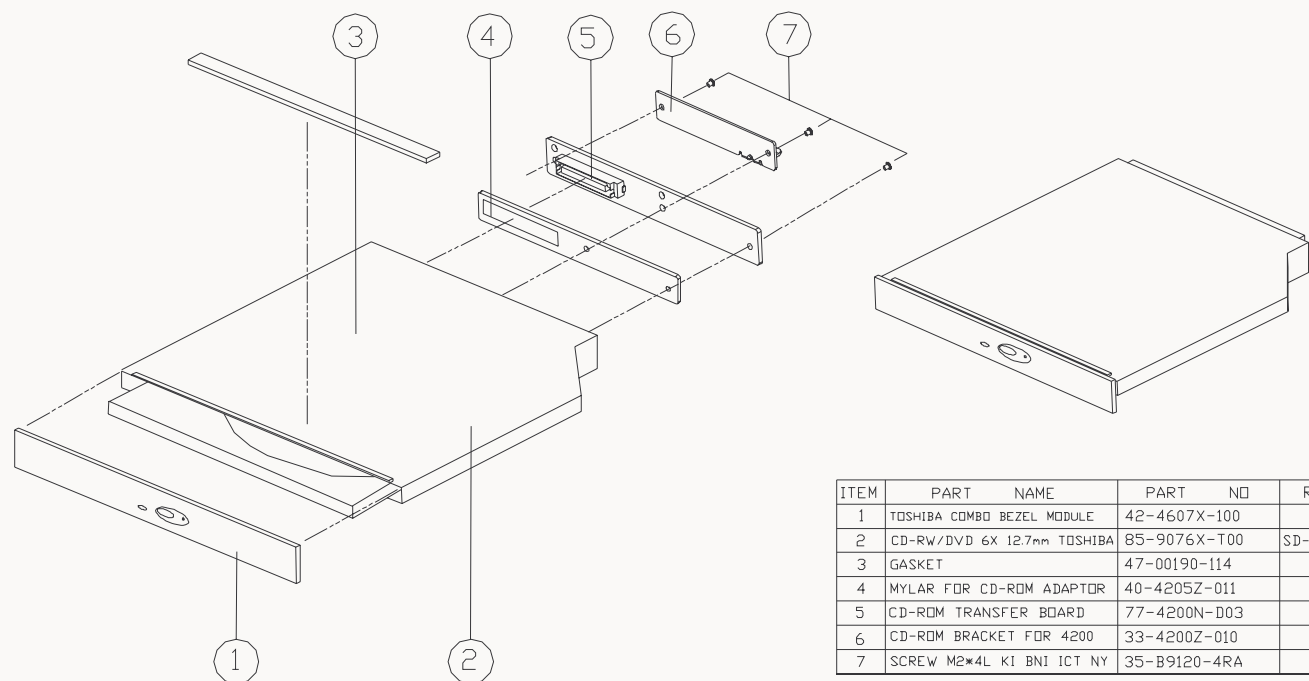


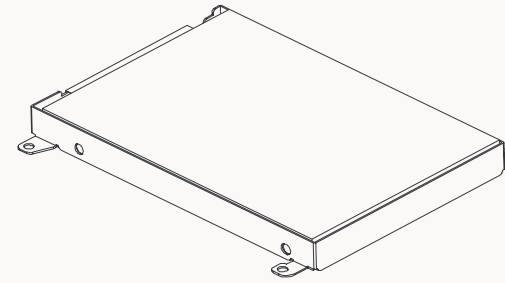
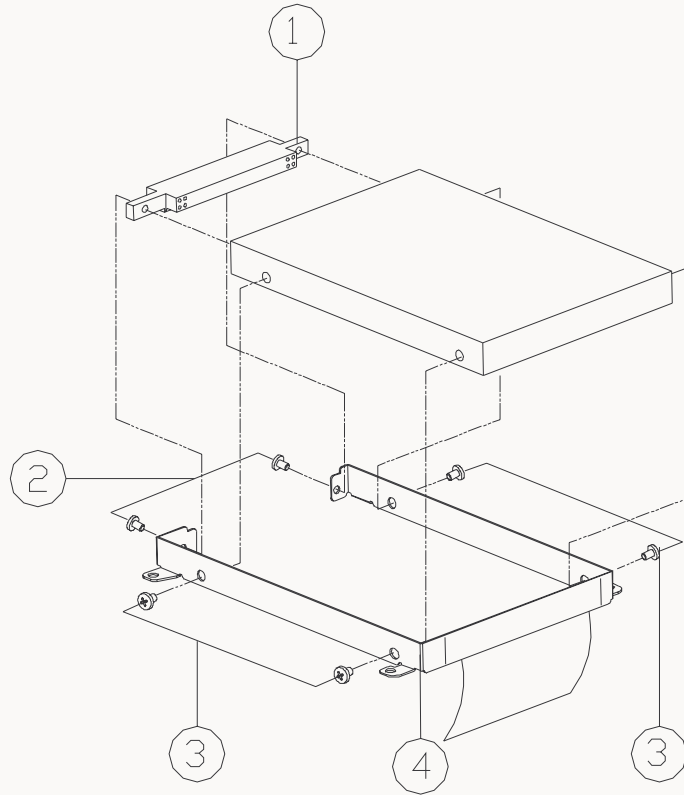
Figure 1 - 31
Combo Drive -
Toshiba (4200)

ITEM	PART NAME	PART NO	REMARK
1	TOSHIBA COMBO BEZEL MODULE	42-4607X-100	
2	CD-RW/DVD 6X 12.7mm TOSHIBA	85-9076X-T00	SD-R2002
3	GASKET	47-00190-114	
4	MYLAR FOR CD-ROM ADAPTOR	40-4205Z-011	
5	CD-ROM TRANSFER BOARD	77-4200N-D03	
6	CD-ROM BRACKET FOR 4200	33-4200Z-010	
7	SCREW M2*4L KI BNI ICT NY	35-B9120-4RA	

Part Lists

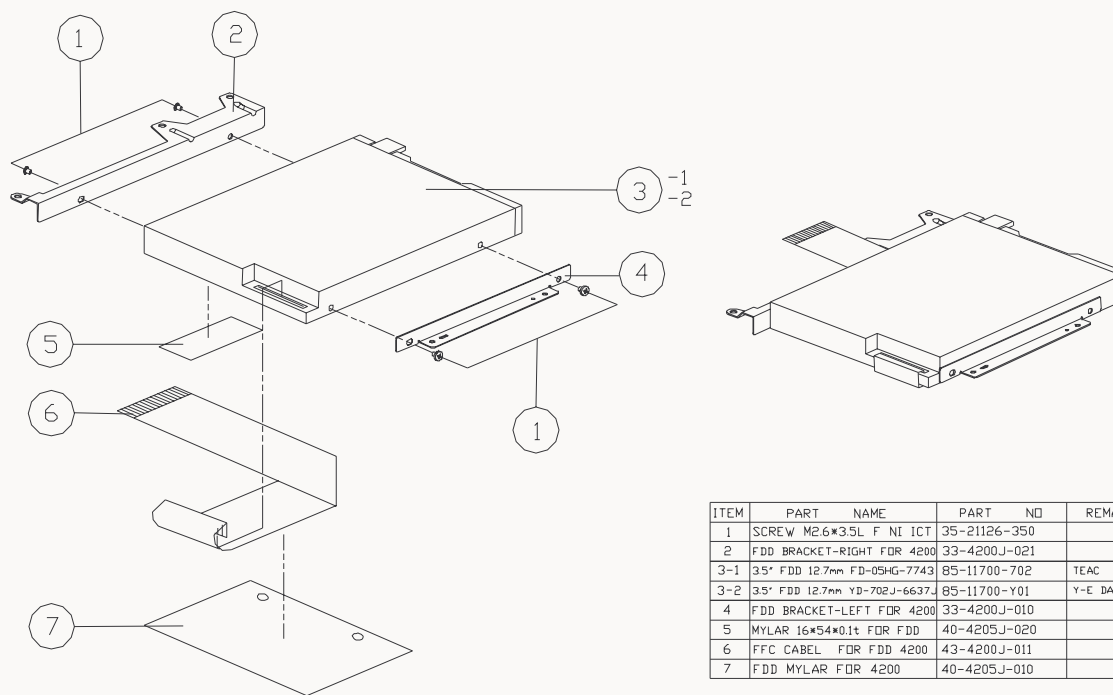
Hard Disk Drive (4200, 4200M & 4600)

Figure 1 - 32
Hard Disk Drive
(4200, 4200M & 4600)



ITEM	PART NAME	PART NO	REMARK
1	CPN G2*22 HEADER (16827-14405)	21-53910-222	
2	SCREW M2*3L K1 BNI ICT NY	35-B9120-3RA	
3	SCREW M3*2.5L K1 NI ICT NY	35-B1130-2R5	
4	HDD FRAME FOR 4200	33-4200I-011	

Floppy Disk Drive (4200, 4200M & 4600)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.6*3.5L F NI ICT	35-21126-350	
2	FDD BRACKET-RIGHT FOR 4200	33-4200J-021	
3-1	3.5" FDD 12.7mm FD-05HG-7743	85-11700-702	TEAC
3-2	3.5" FDD 12.7mm YD-702J-6637	85-11700-Y01	Y-E DATA
4	FDD BRACKET-LEFT FOR 4200	33-4200J-010	
5	MYLAR 16*54*0.1t FOR FDD	40-4205J-020	
6	FFC CABEL FOR FDD 4200	43-4200J-011	
7	FDD MYLAR FOR 4200	40-4205J-010	

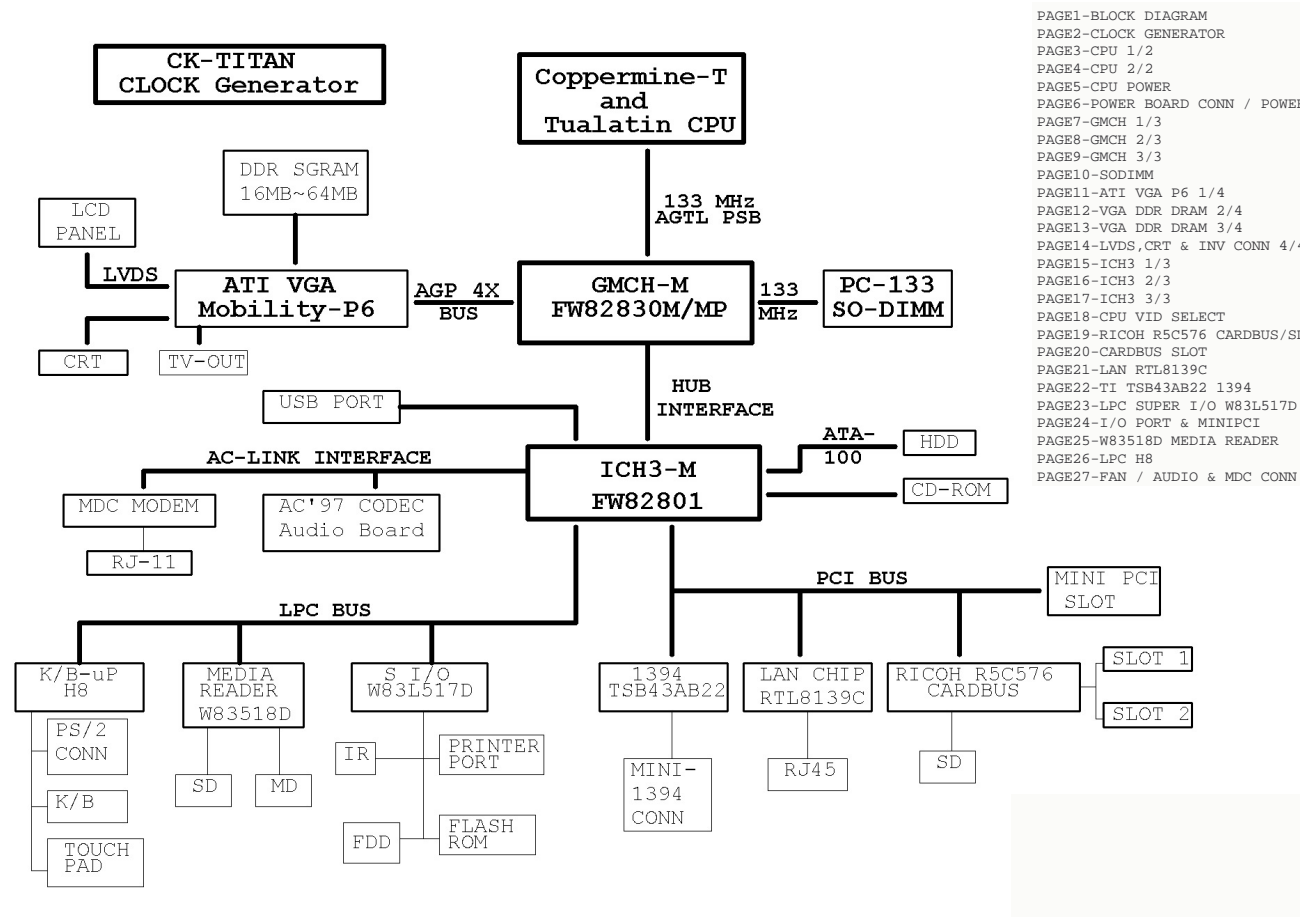
Figure 1 - 33
Floppy Disk Drive
(4200, 4200M & 4600)

Part Lists

Appendix B:Schematic Diagrams

Mainboard

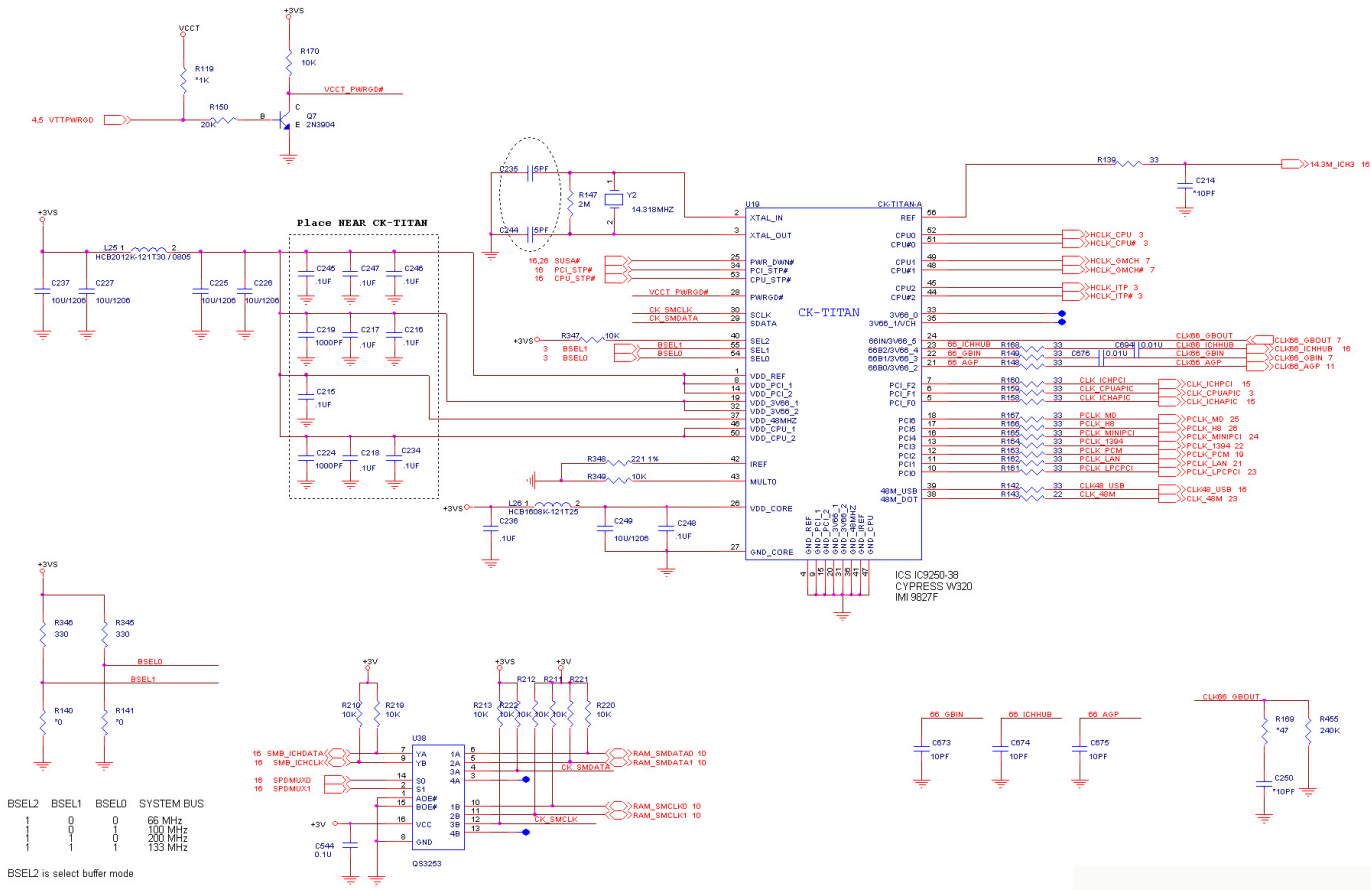
Sheet 1 of 27



Schematic Diagrams

Schematic Diagrams

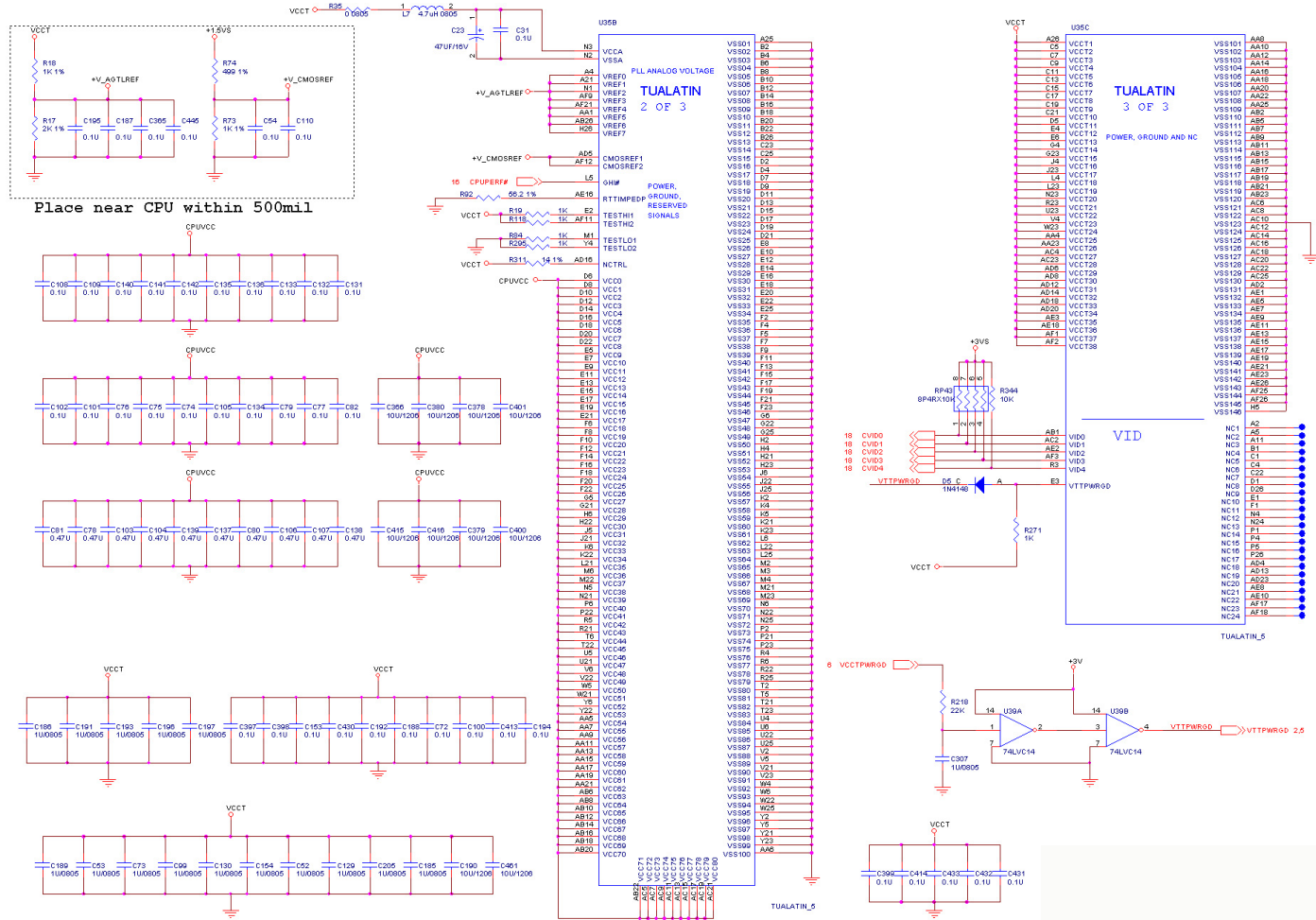
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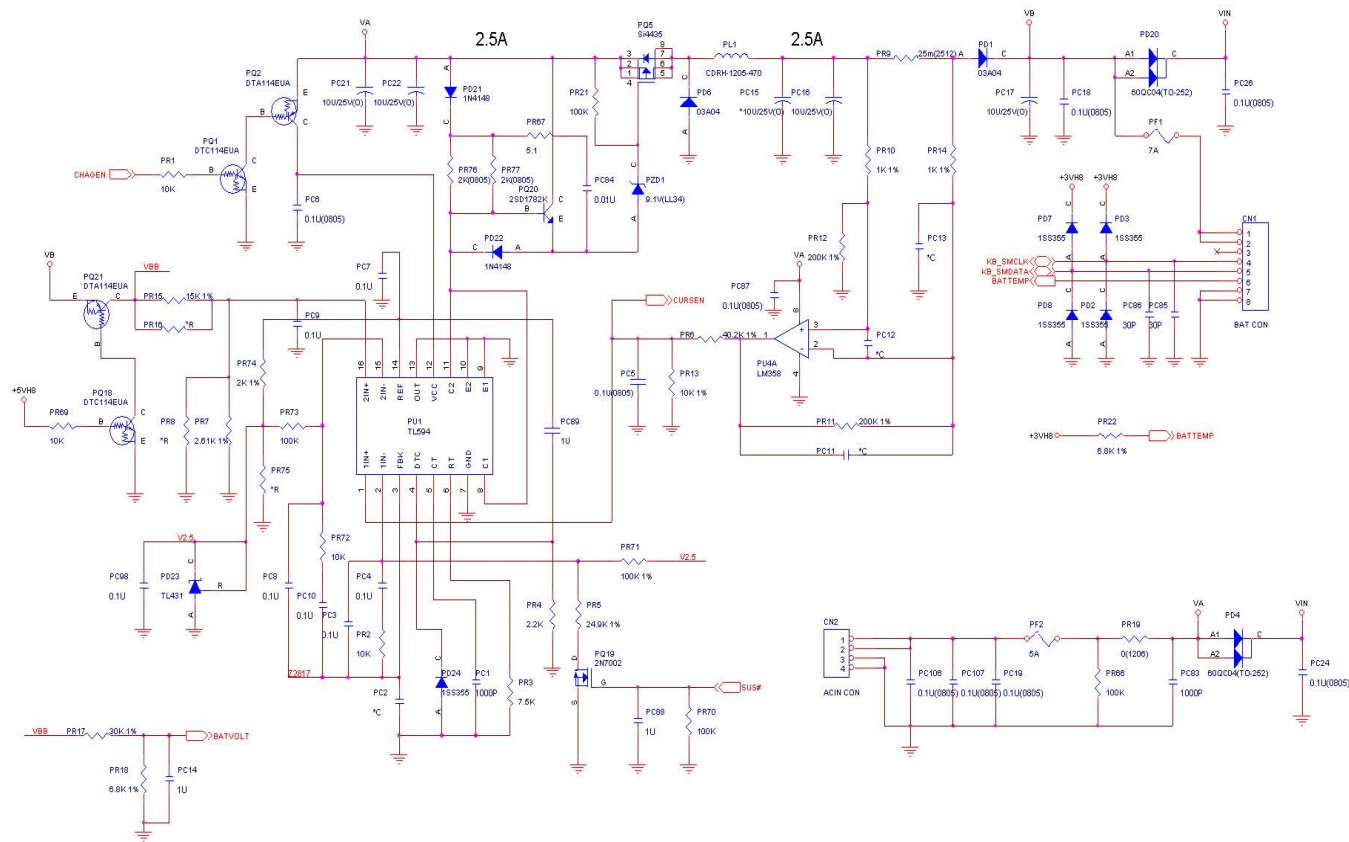
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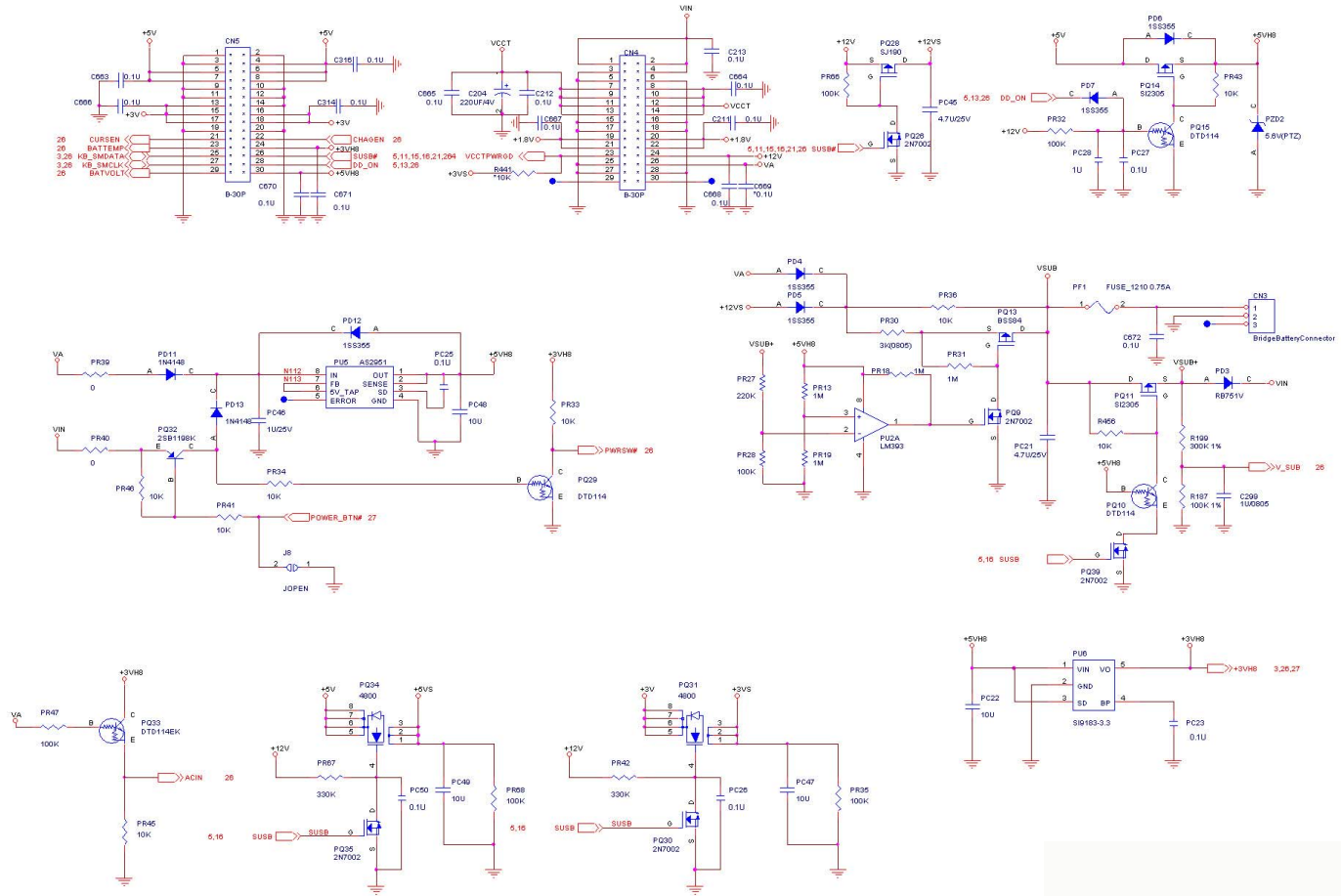


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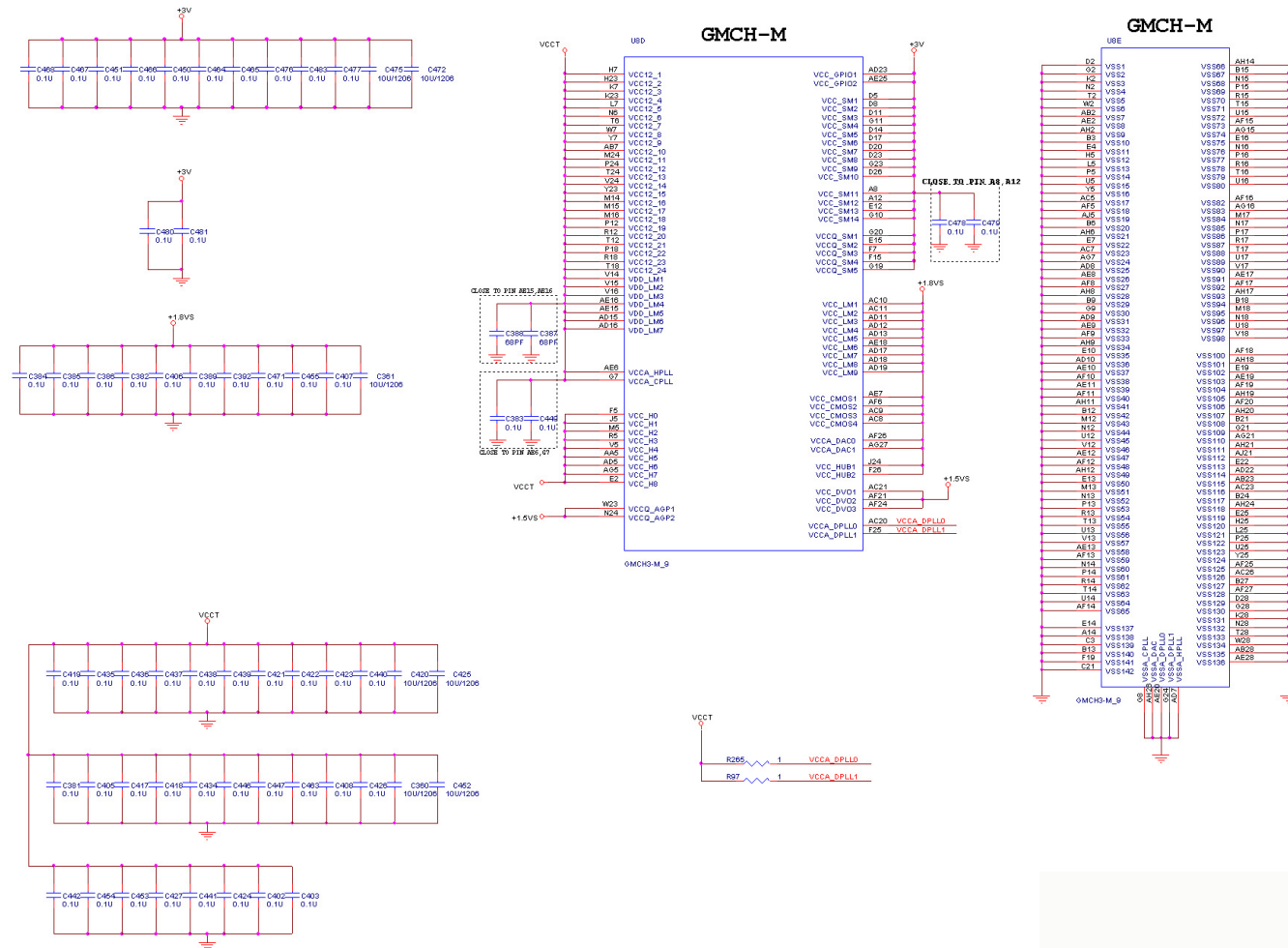


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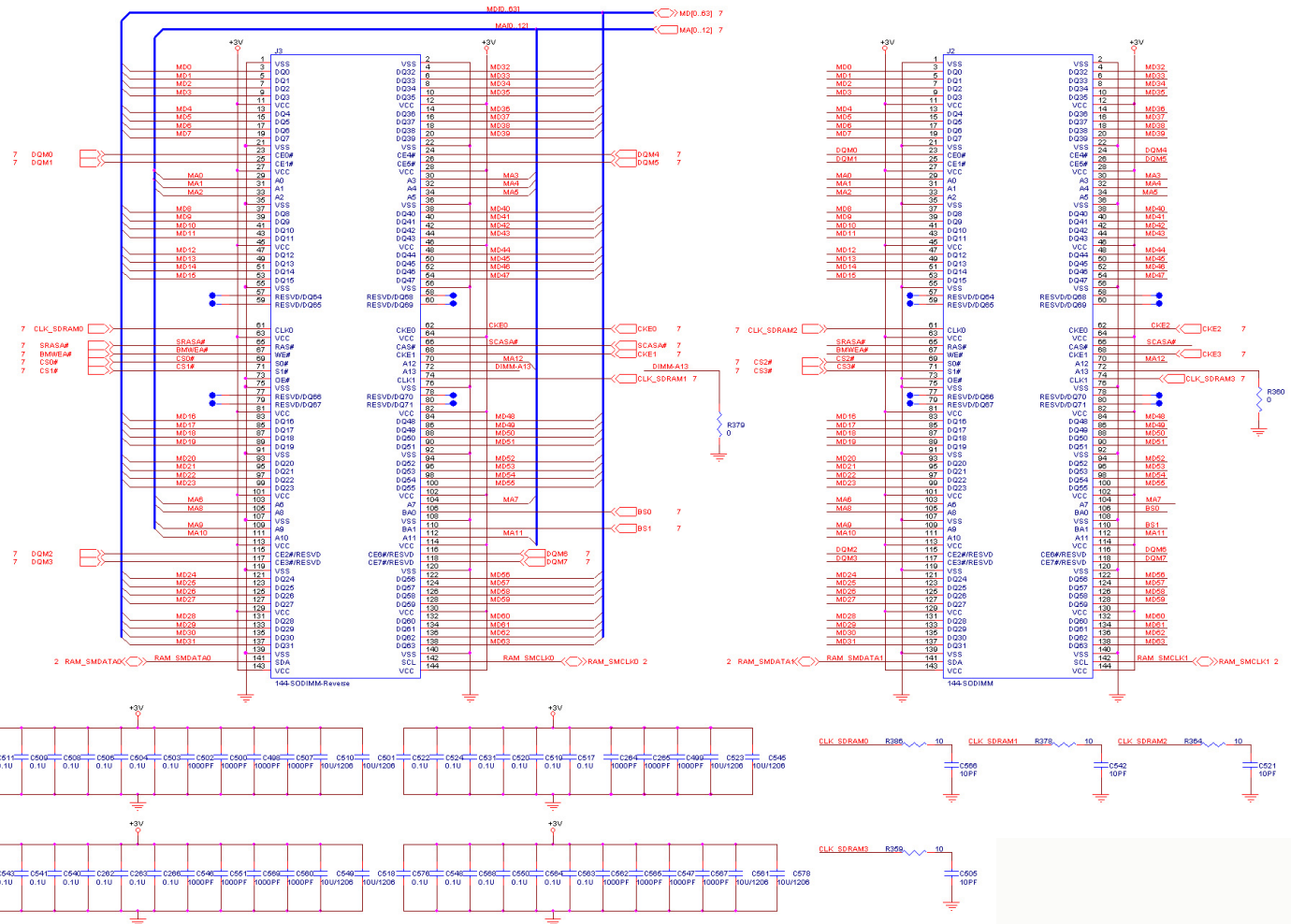
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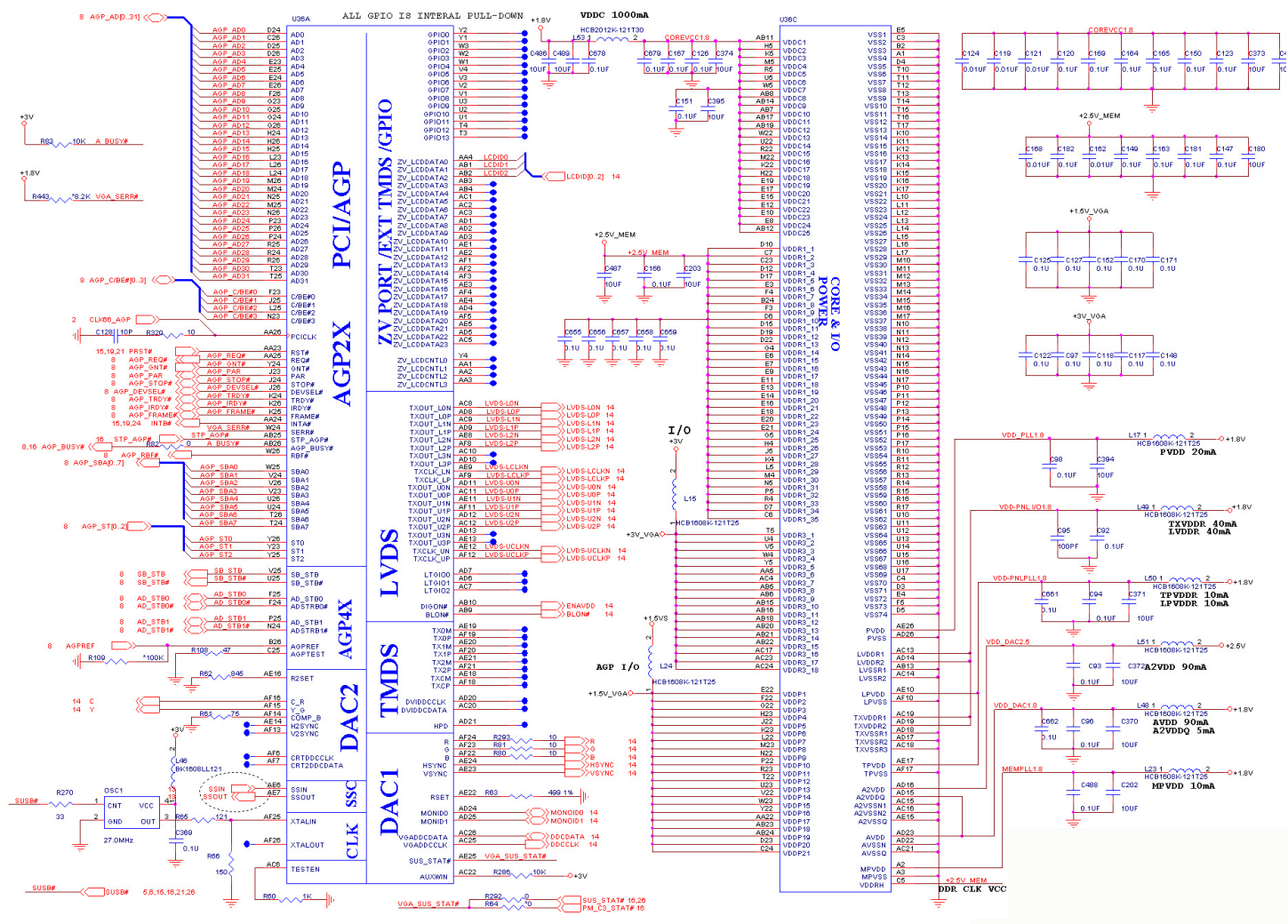


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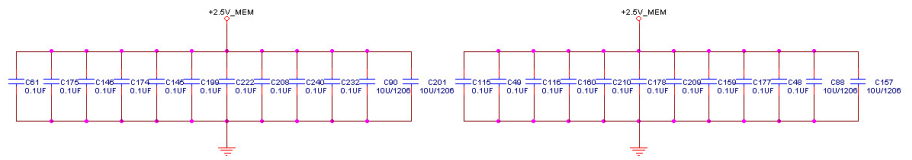
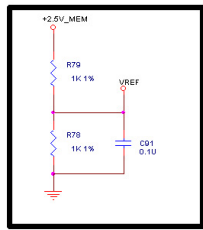
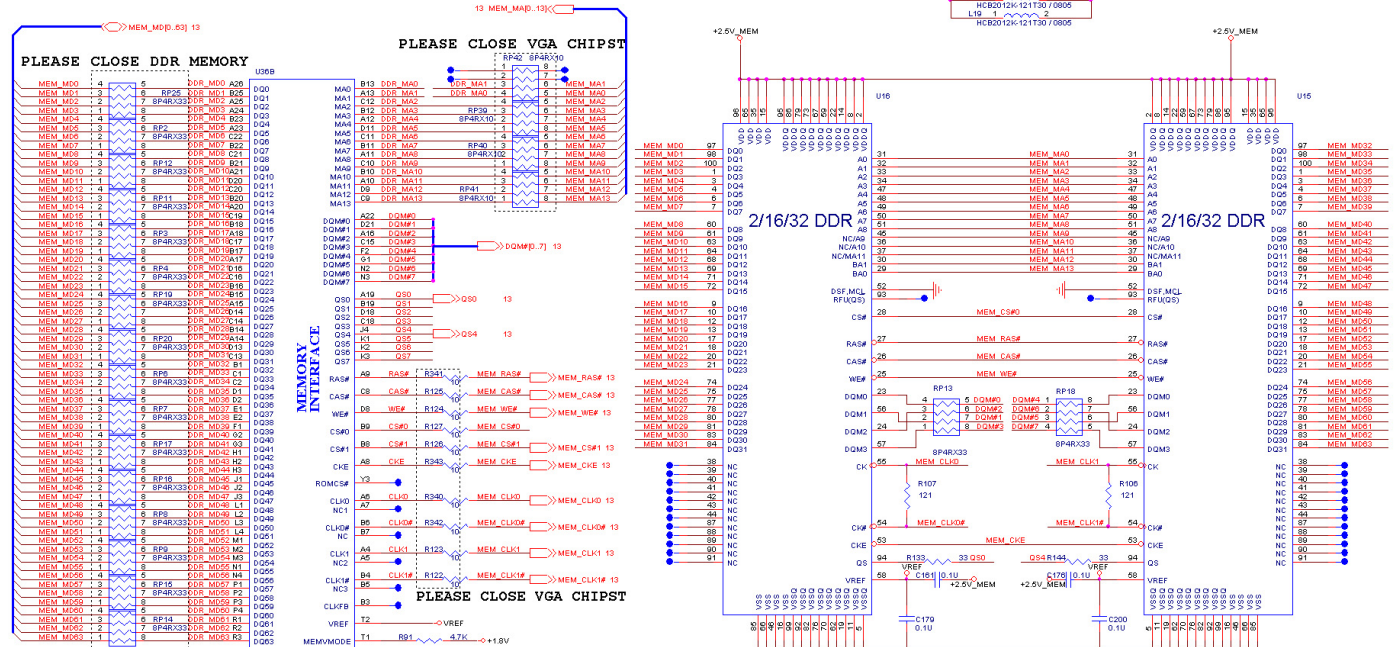


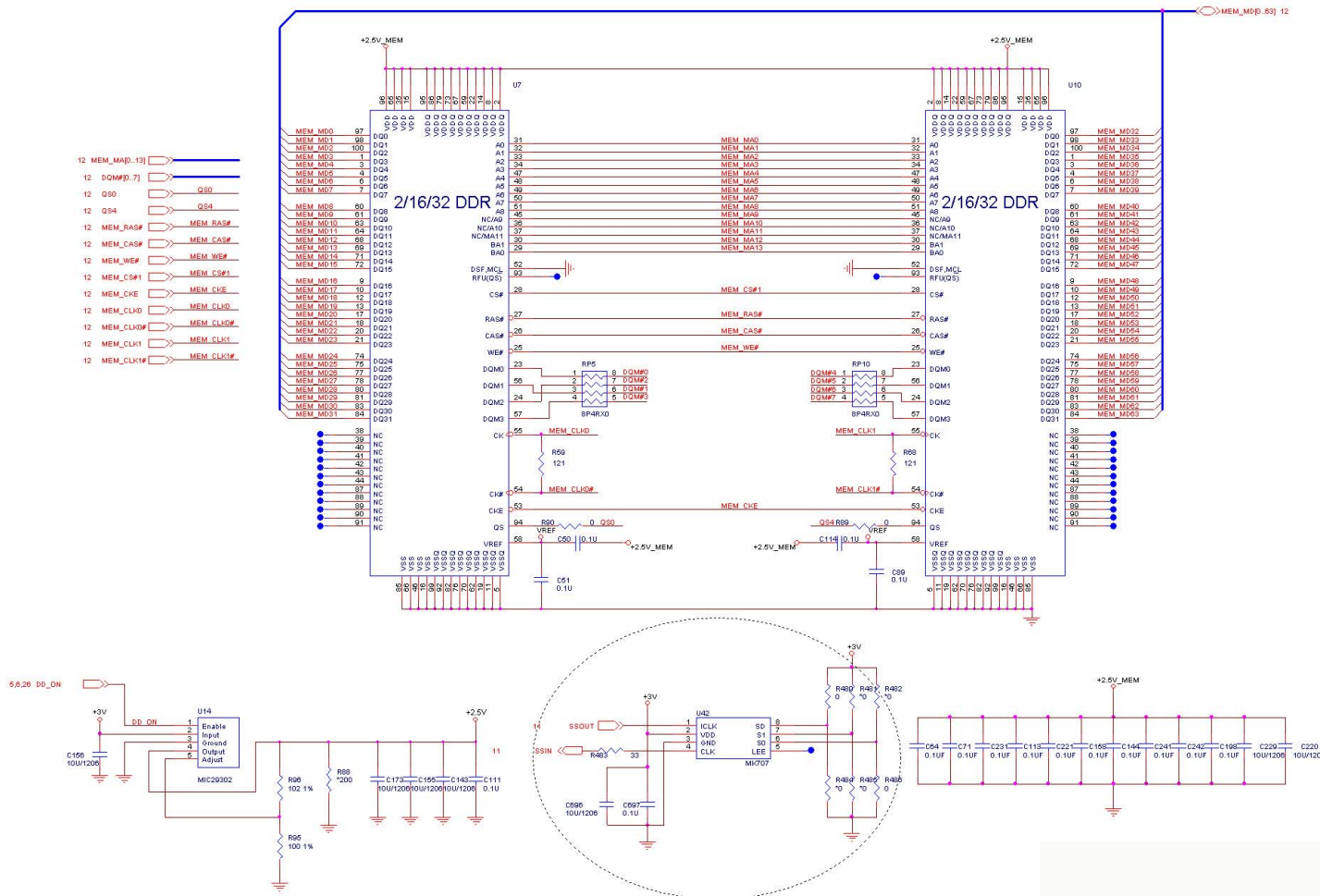


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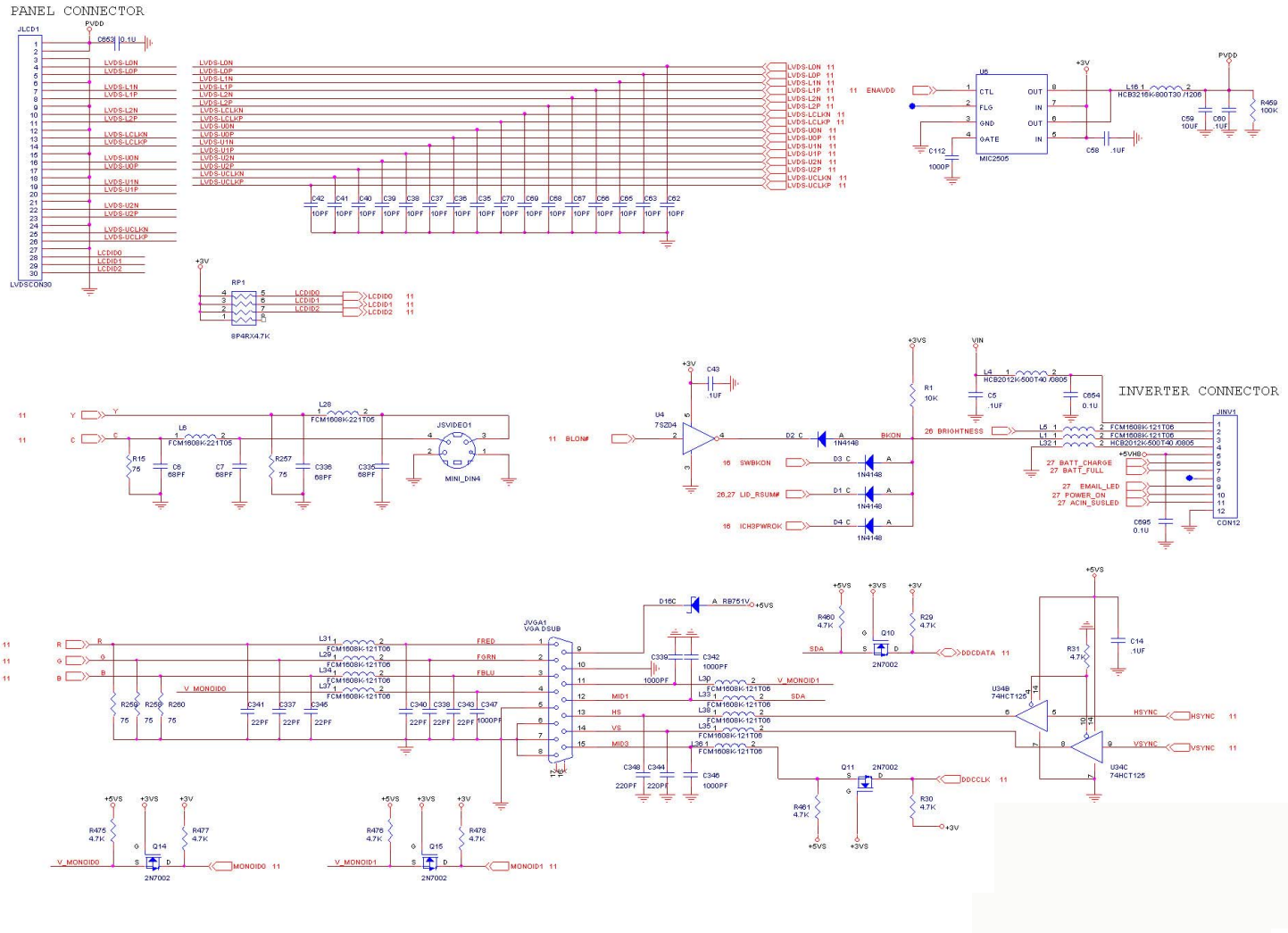


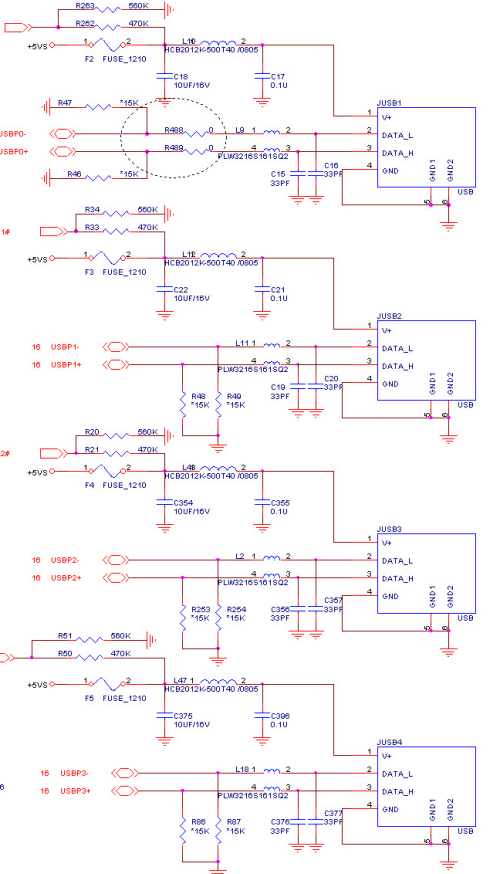
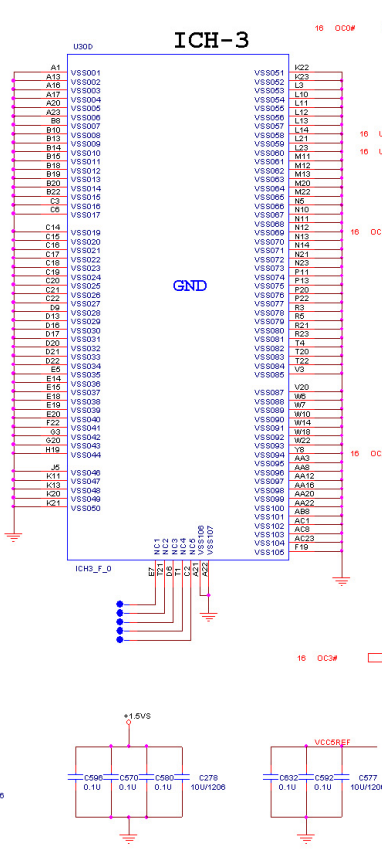
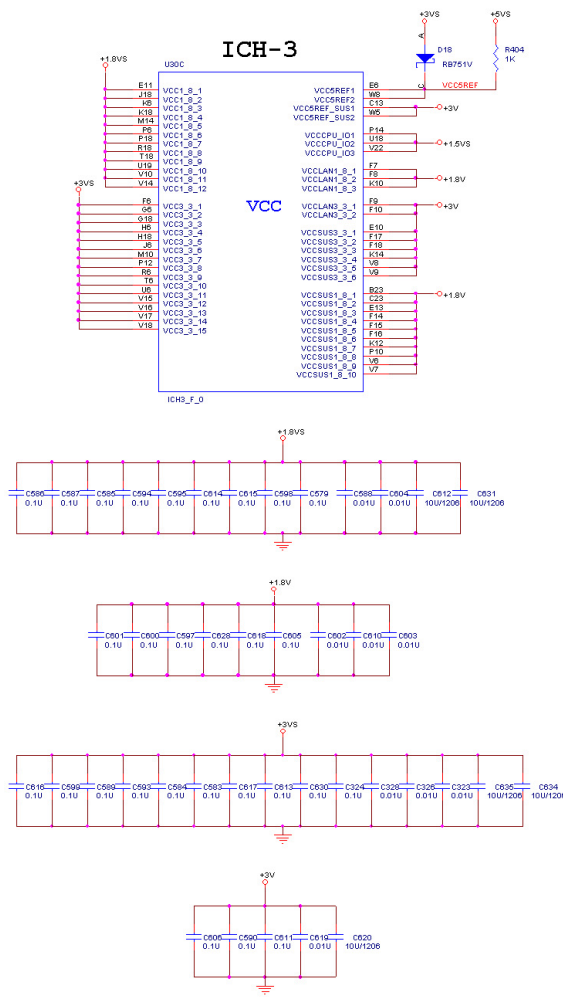


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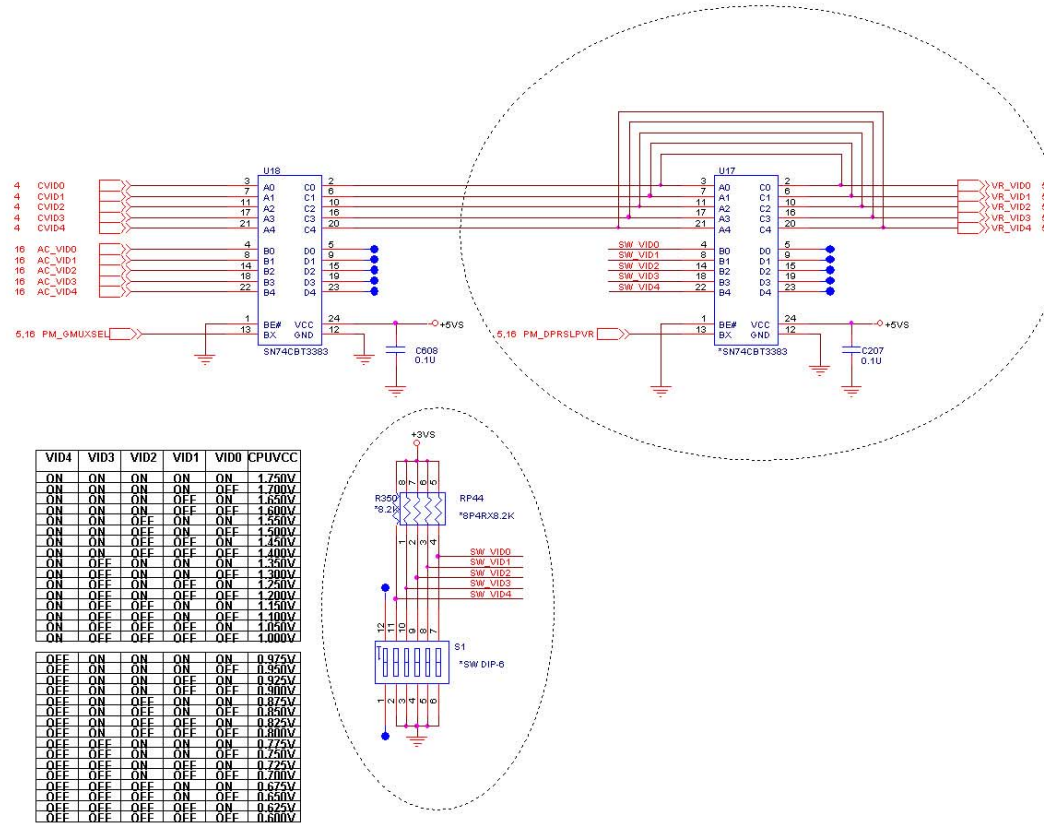
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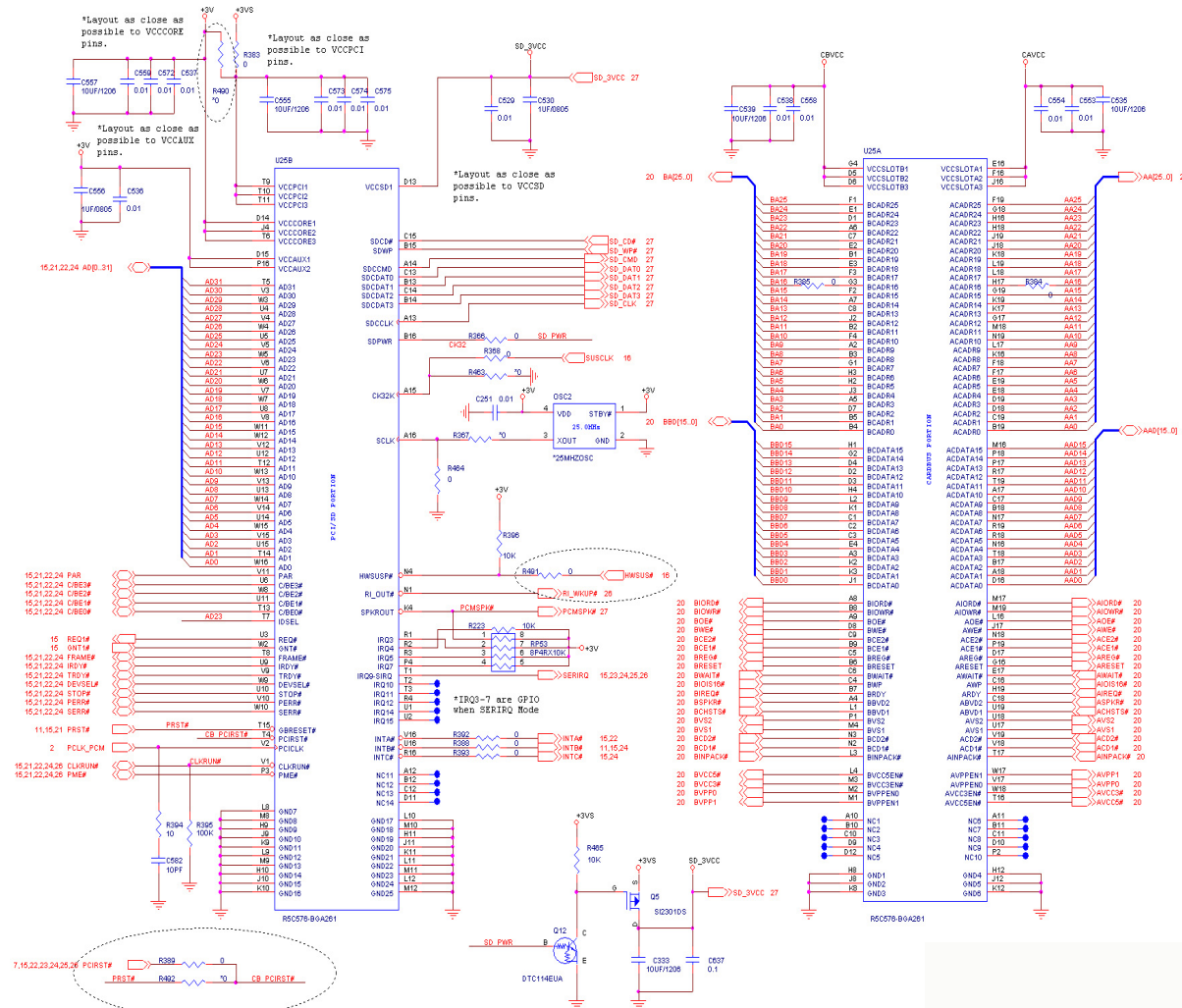




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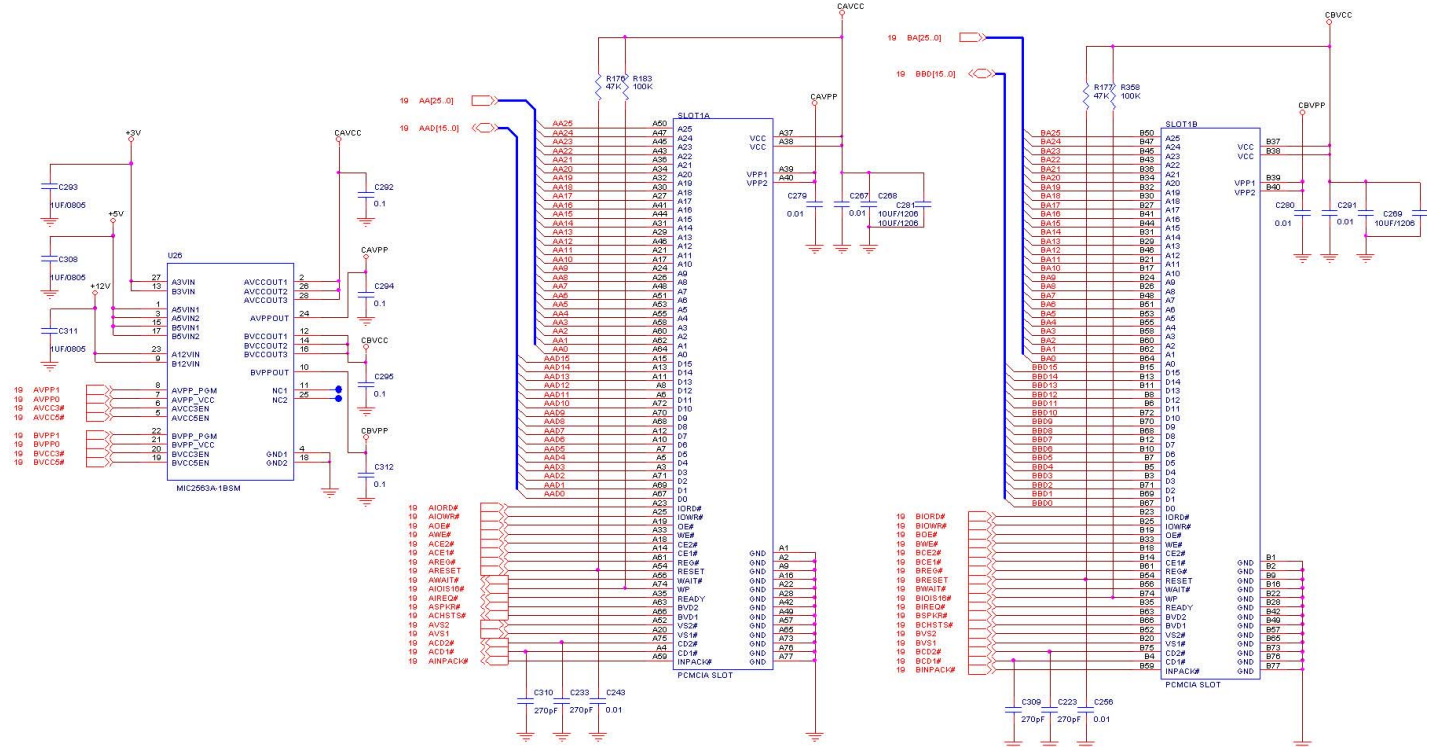


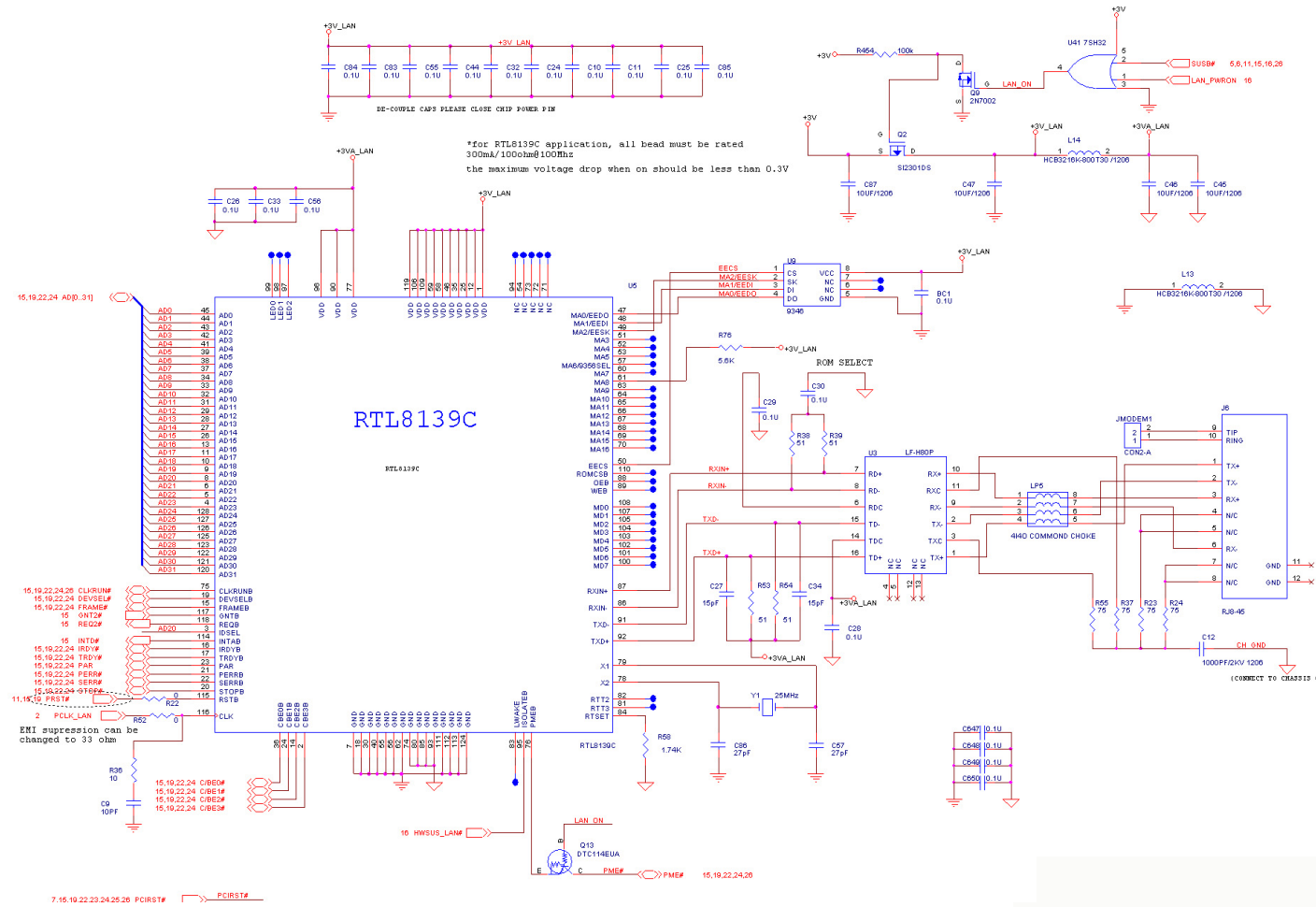


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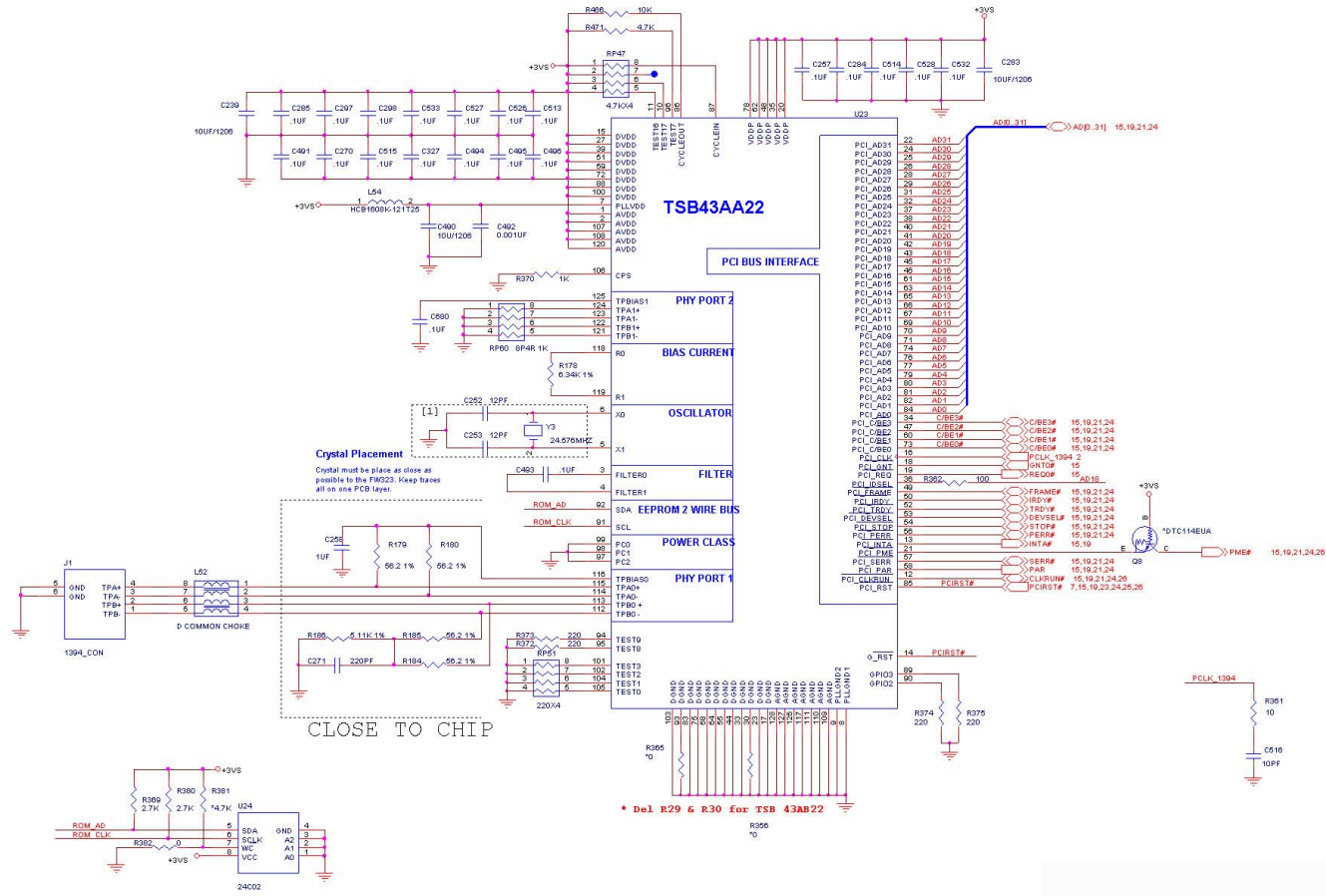


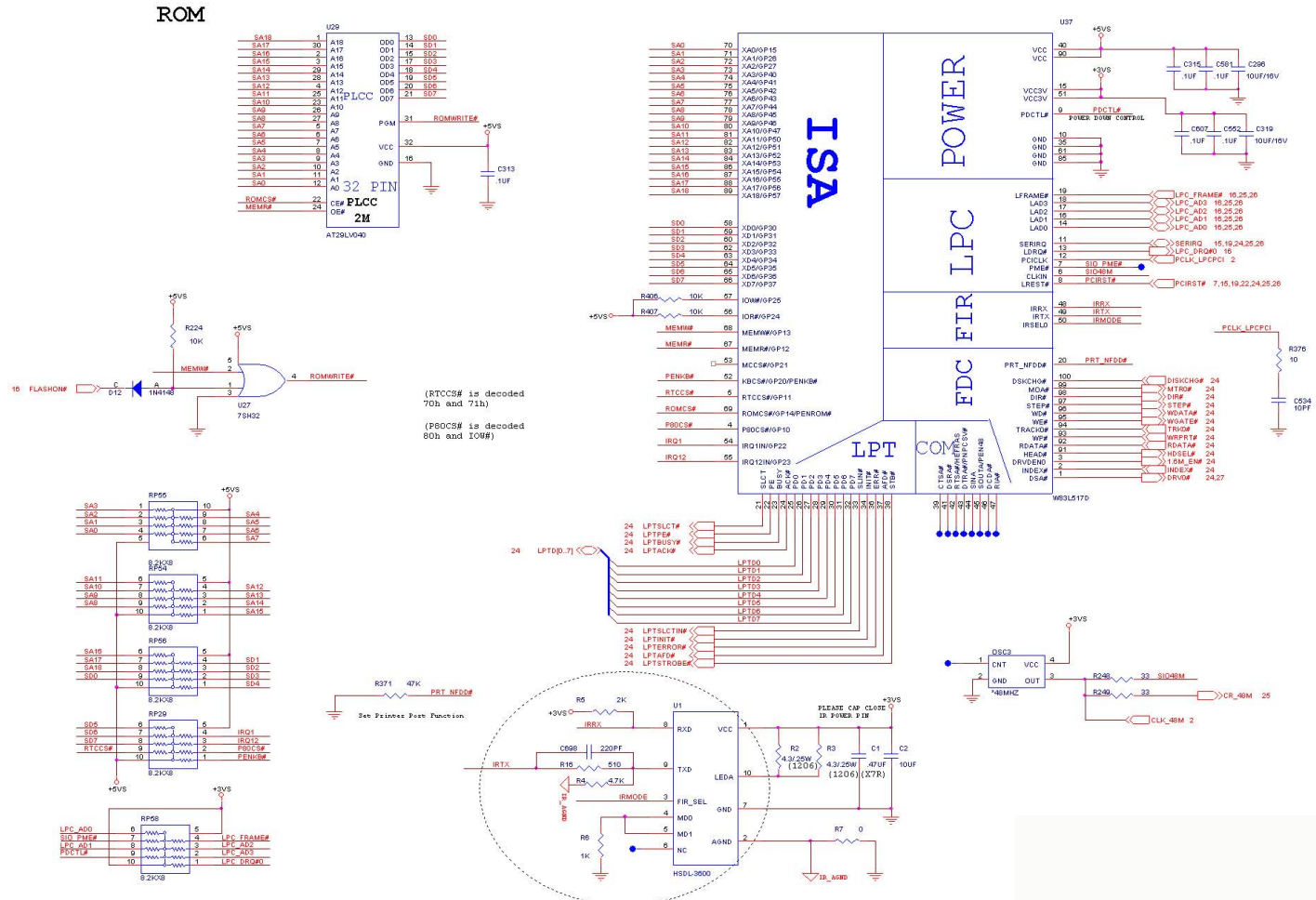


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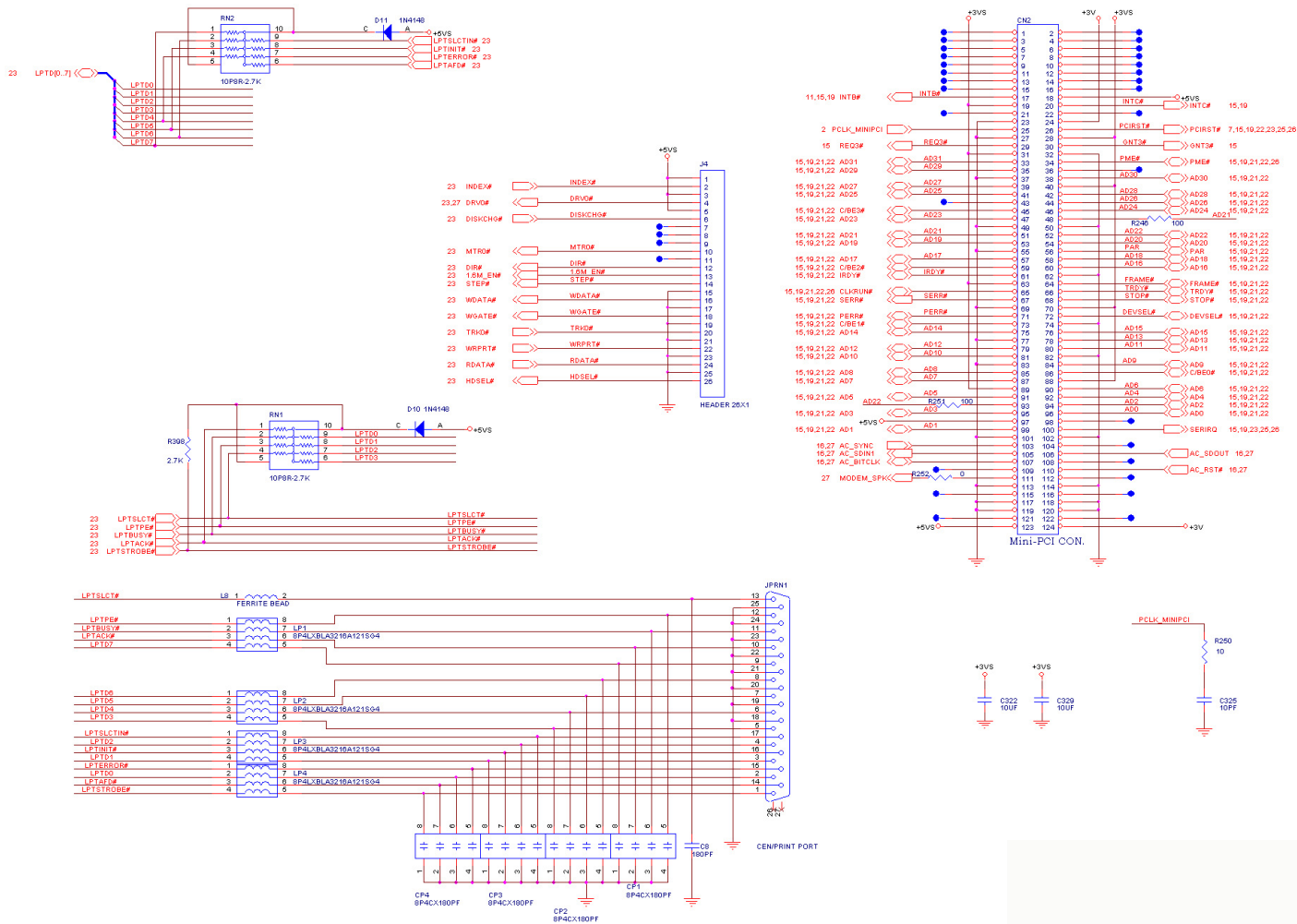


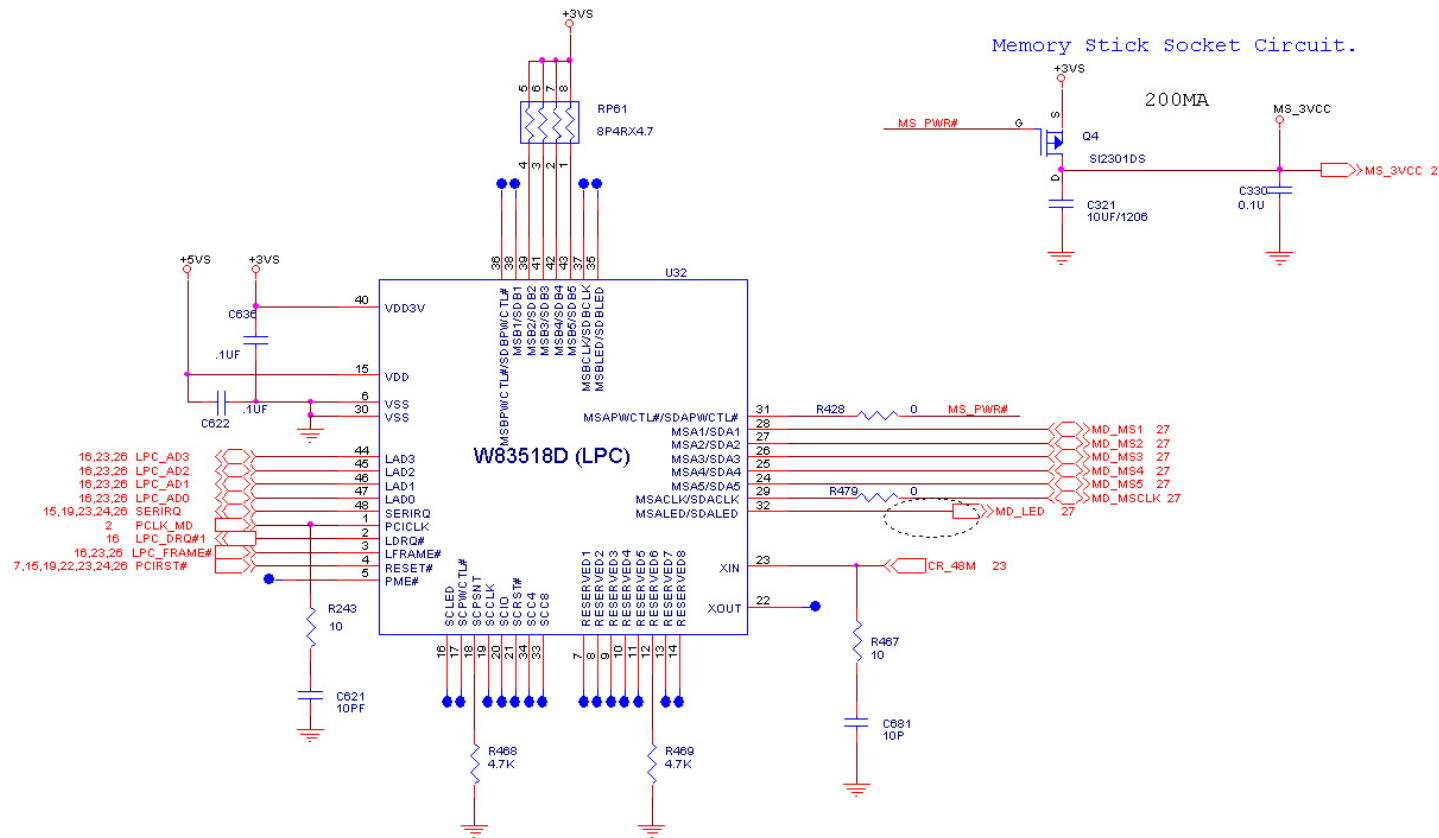


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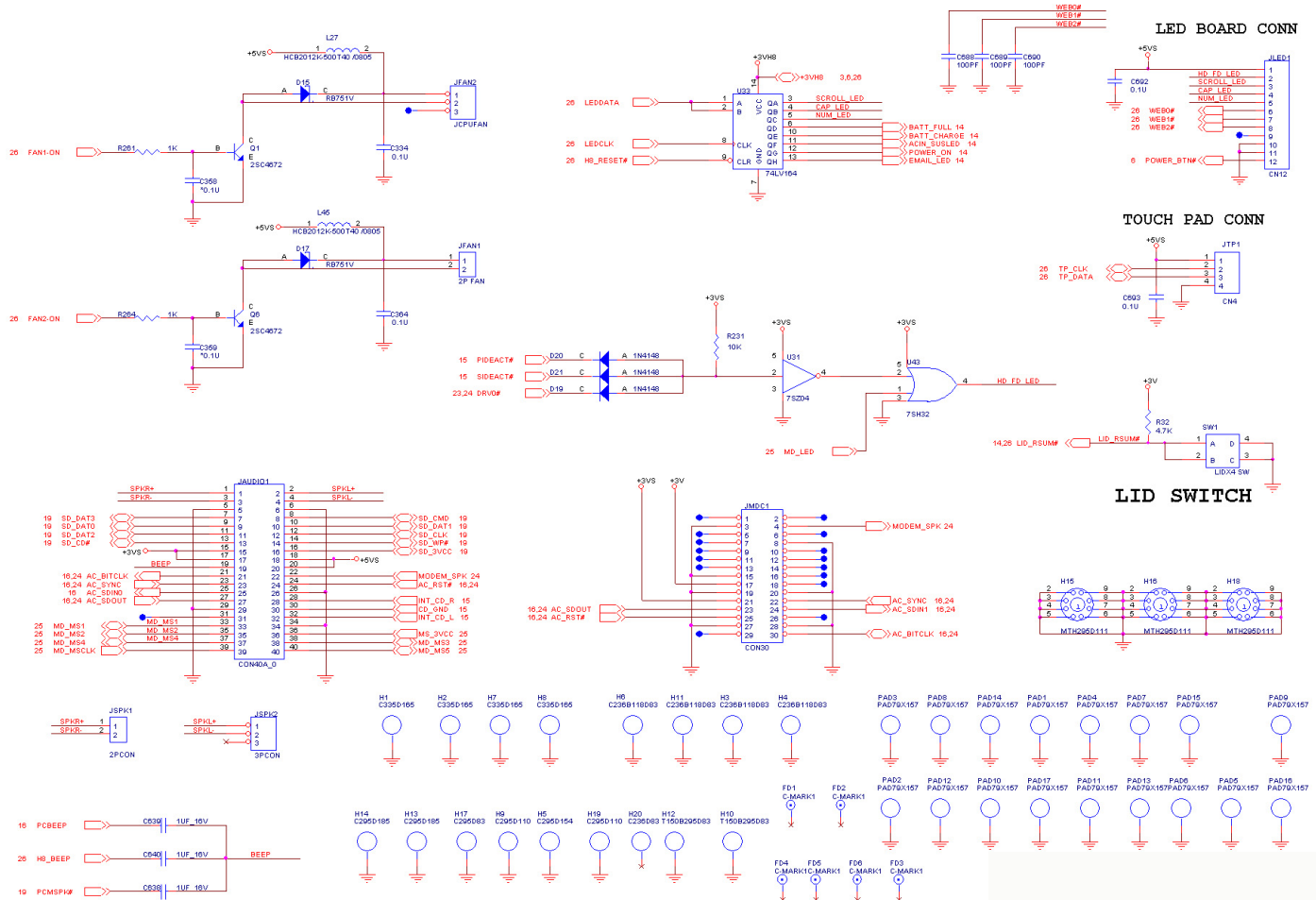
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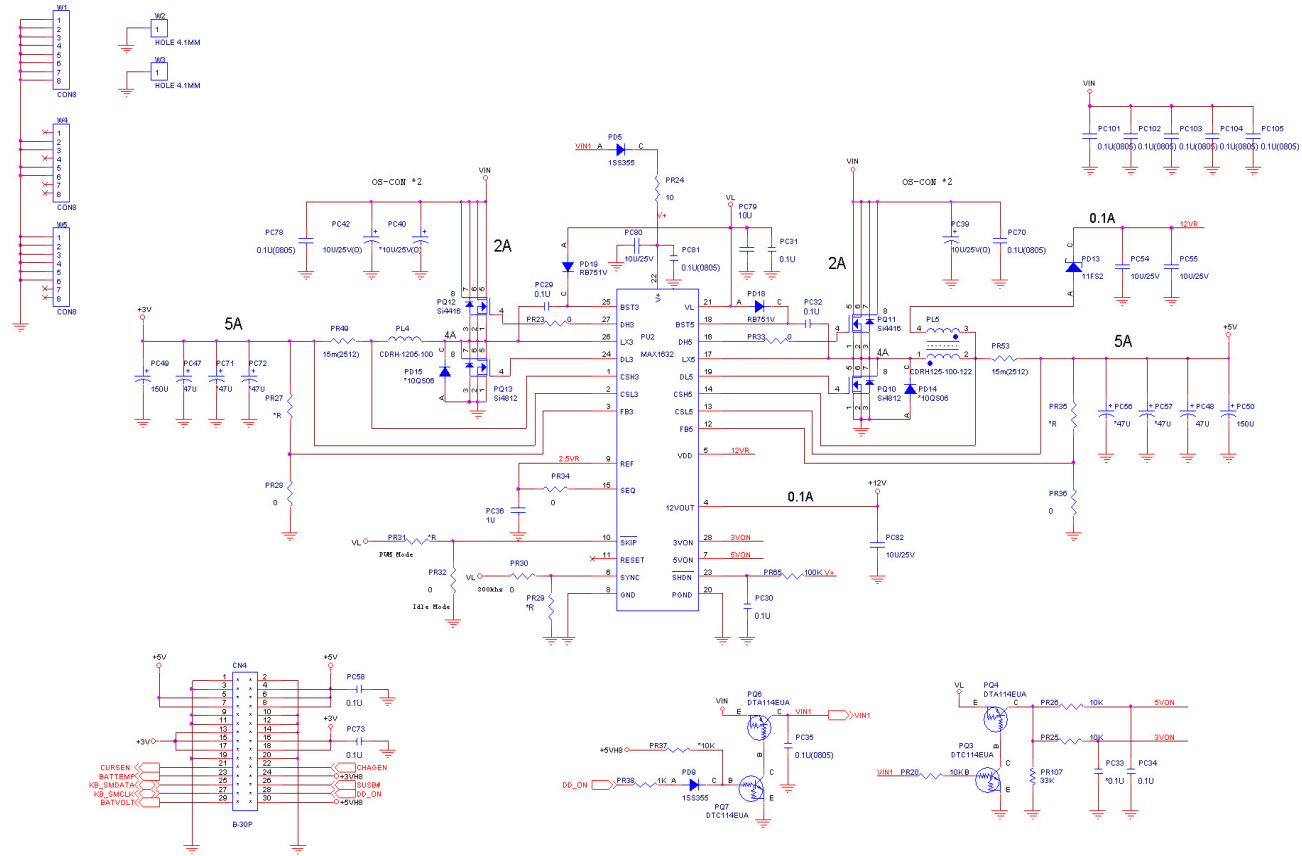
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Power Board

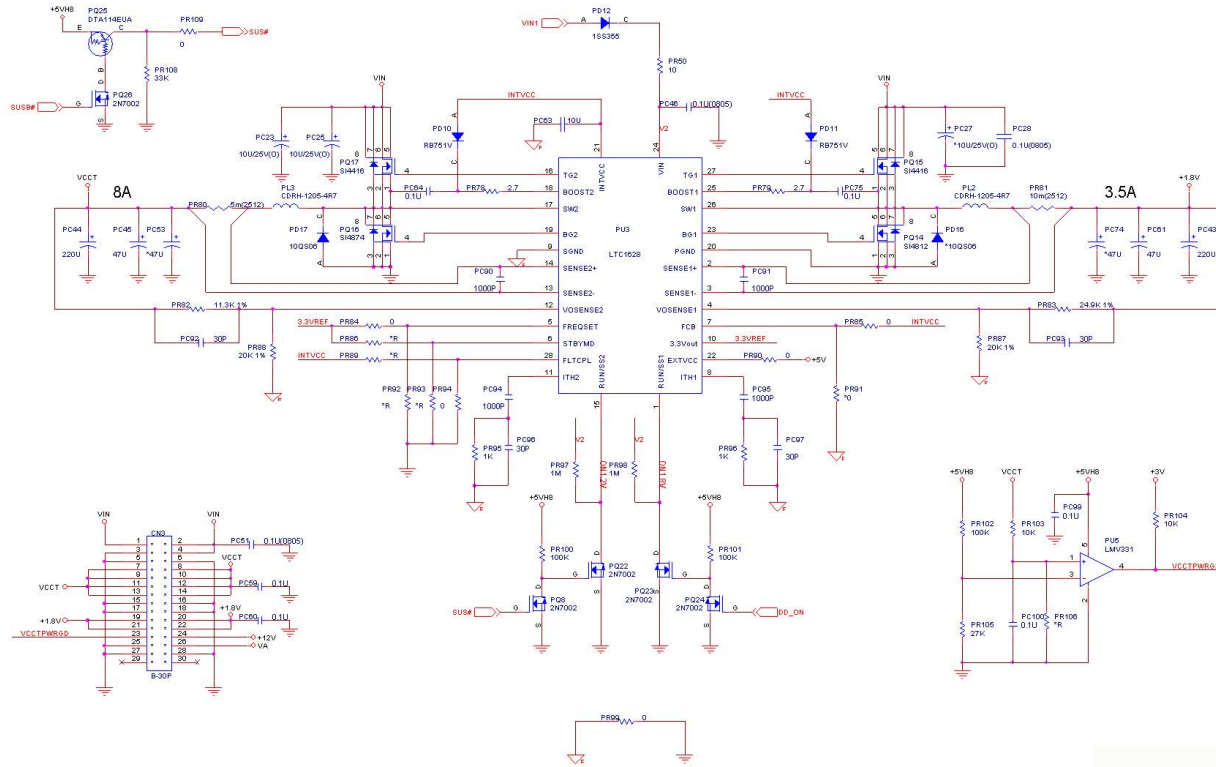
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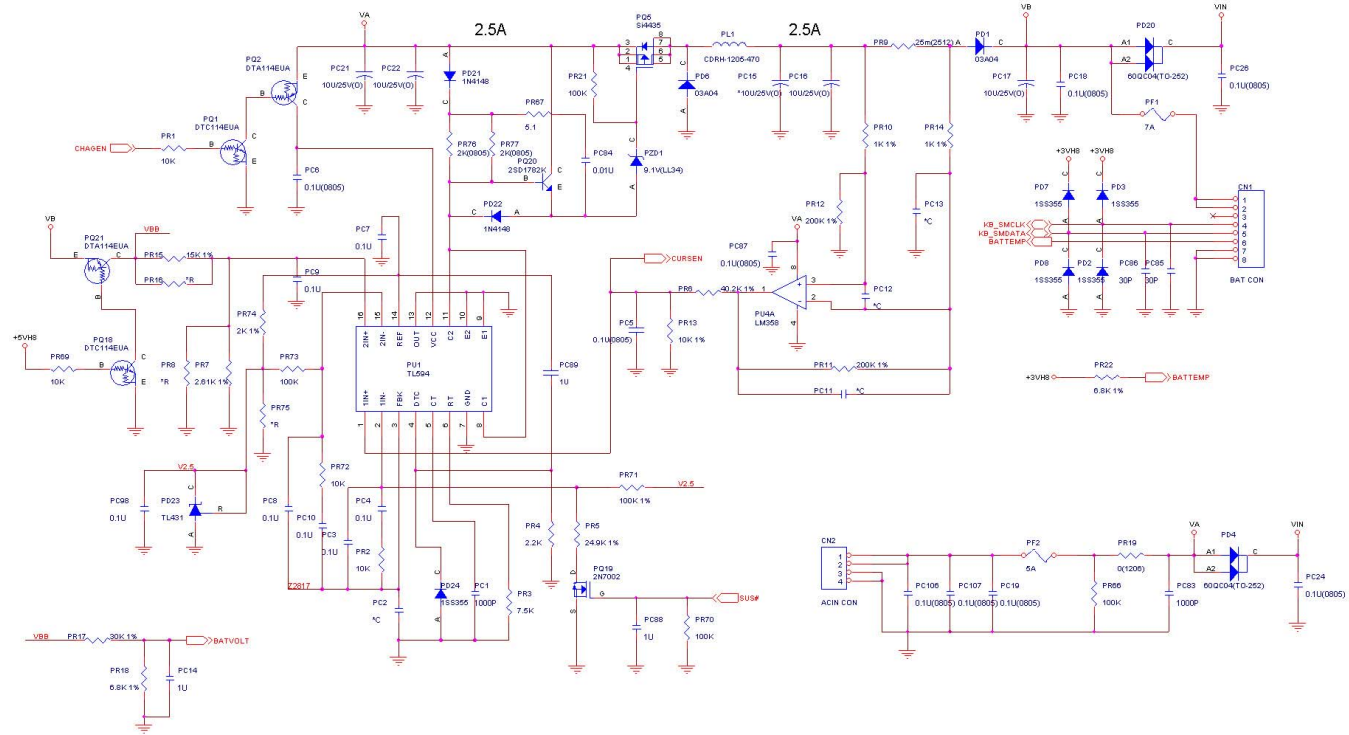


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Appendix C: Updating the FLASH ROM BIOS

To update the FLASH ROM BIOS you must:

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

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 (**4200/4600 series**) and the driver type (**BIOS**).
4. Select **GO**.
5. Click on 4200Biosxxx.zip. to download the BIOS files (including BIOS refresh tools).

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

(Some of the files you should see on this disk are: runme.bat, Platform.bin, Phlash.exe & 42_XXX.rom)

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

After the computer has been booted from the floppy disk:

1. Go to the DOS prompt.
2. Make sure you are not loading any memory management programs such as HIMEM by holding the **F8** key as you see the message "**Starting MS-DOS**". You will then be prompted to give "**Y**" or "**N**" responses to the programs being loaded by DOS. Choose "**N**" for any memory management programs
3. If you have chosen to extract the zipped files to the floppy disk the files are located in the folder A:/4200/BIOS. Browse to this folder and type the following command:

```
A:/4200/BIOS.    runme
```

4. Remove the floppy disk from the drive.

Your notebook is now running normally with the updated BIOS.

