Service Manual

Notebook Computer

Model No. CF-74GCDADBM



This is the Service Manual for the following areas. M ...for U.S.A. and Canada

A WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



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WARNINGS

This apparatus must be earthed for your safety.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.

For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

Warning: THIS APPLIANCE MUST BE EARTHED.

Important

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \bigoplus coloured GREEN or GREEN-and-

YELLOW.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

The mains plug on this equipment must be used to disconnect the mains power. Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



Warnings

This equipment is not designed for connection to an IT power system.
 (An IT system is a system having no direct connections between live parts and Earth; the exposed-conducive-parts of the electrical installation are earthed.

An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)

• Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

LASER SAFETY INFORMATION

For U.S.A.

Class 1 LASER-Product

This product is certified to comply with DHHS Rules 21 CFR Subchapter J. This product complies with European Standard EN60825 (or IEC Publication 825)

For all areas

This equipment is classified as a class 1 level LASER product and there is no hazardous LASER radiation.

Caution:

- (1) Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- (2) The drive is designed to be incorporated into a computer-based system or unit which has an enclosing cover. It should never be used as a stand alone drive.

Danger:

The serviceman should not remove the cover of drive unit and should not service because the drive unit is a non-serviceable part.

Please check DANGER label on PD-drive unit.

- Unplug the AC power cord to the equipment before opening the top cover of the drive.
- When the power switch it on, do not place your eyes close to the front panel door to look into the interior of the unit.

LASER Specification

Class 1 level LASER Product Wave Length: DVD 658±8 nm CD 775~815 nm

Laser safety information is appropriate only when drive with laser is installed.

Safety precautions

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacture's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

- LITHIUM BATTERY ⚠

· CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacture. Discard used batteries according to the manufacturer's instructions.

- LITHIUMBATTERIES 🛆 -

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben order einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

- PILE AU LITHIUM 🛆 ———

ATTENTION: IL Y A DANGER D'EXPLOSION S' IL Y A REMPLACEMENT INCORRECT DE LA PILE. REMPLACER UNIQUEMENT AVEC UNE PILE DU MÈME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES PILES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

For U.S.A. / CANADA



A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur. • Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



Do Not Short

Do not short the positive (+) and negative (-) contacts.



Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.



Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer or charger. Do not use it with a computer other than the one for which it was designed.



Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



Discontinue Use

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer or charger and discontinue use.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F}).(Reference "Battery Power") Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When transporting spare batteries inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

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1. Specifications

This page provides the specifications for the basic model CF-74GCDADBM / CF-74GCDCDBM / CF-74GCDEDBM / CF-74HCDAZBM / CF-74GCDBDBM / CF-74GCDDDBM / CF-74GCDFDBM / CF-74HCDBZBM. The model number is different according to the unit configuration.

To check the model number:

Check the bottom of the computer or the box the computer came in at the time of purchase. To check CPU speed, memory size and the hard disk drive (HDD) size:

Run the Setup Utility and select [Information] menu.

[CPU Speed]: CPU speed, [System Memory]: Memory size, [Hard Disk]: Hard disk drive size

Main S	pecifications			
Model No.		CF-74GCDADBM / CF-74GCDCDBM / CF-74GCDEDBM / CF-74HCDAZBM	CF-74GCDBDBM / CF-74GCDDDBM / CF-74GCDFDBM / CF-74HCDBZBM	
CPU		Intel [®] Core™ 2 Duo Processor T7300 (2.0 GHz, 4 MB ^{*1} L2 cache, 800 MHz FSB)		
Chipset		Mobile Intel [®] GM965 Express Chipsets with IC	H8M	
Memory ^{*1*2}		1024 MB (4096 MB Max.)		
Video Memo	ory ^{*1*3}	UMA (384 MB Max.)		
Hard Disk D	Drive ^{*4}	80 GB		
CD/DVD Dr	ive	DVD-ROM & CD-R/RW Drive	DVD MULTI Drive	
Data	Reading ^{*6}	DVD-ROM: 8X (Max.), CD-ROM: 24X (Max.)		
Transfer Rate ^{*5}	Writing ^{*7}	CD-R: 4X/8X/10-16X/10-24X CD-R: 8X/8-12X/8-16X/8-24X CD-RW: 4X CD-RW: 4X High-Speed CD-RW: 4X/10X High-Speed CD-RW: 4X/8X/10X Ultra-Speed CD-RW: 10X/10-24X Ultra-Speed CD-RW: 4X/8X/10X DVD-R: 1X/2X/2-4X/2-6X/2-8X DVD-RW: 1X/2X/2-4X DVD-RM: 2X/3X/3-5X +R: 2.4X/2.4-4X/2.4-6X/2.4-8X +R DL: 2.4X +RW: 2.4X/2.4-4X		
Supported Discs/ Format ^{*4}	Reading	DVD-ROM (4.7 GB, 8.5 GB, 9.4 GB, 17 GB), DVD-Video, DVD-R (1.4 GB, 3.95 GB, DVD-R DL (8.5 GB), DVD-RW ^{*8} (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB), DVD-RAM ^{*9} (1.4 GB, 2.6 GB, 5.2 GB, 4.7 GB, 9.4 GB), +R (4.7 GB), +R DL (8.5 GB), +RW (4.7 GB), CD-ROM, CD-R, Photo CD, Video CD, CD-RW, CD TEXT, CD-EXTRA		
	Writing	CD-R, CD-RW, High-Speed CD-RW, Ultra- Speed CD-RW	DVD-R (1.4 GB, 4.7 GB for General), DVD-RW ^{*8} (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB), DVD-RAM ^{*9} (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB), +R (4.7 GB), +R DL (8.5 GB), +RW (4.7 GB), CD-R, CD-RW	
Display Method		13.3 XGA type (TFT) with Touchscreen ^{*10}		
Internal LCD ^{*11}		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots)		
External Display ^{*12} 65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 1024 dots/1600 × 1200 dots/2048 × 1536 dots)		4 × 768 dots/1280 × 1024 dots/1400 × 1050		
Wireless LA	N ^{*13}			
Bluetooth ^{*14}				
LAN		IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T		
Modem Data: 56 kbps (V.92) FAX: 14.4 kbps				
Sound	Sound WAVE and MIDI playback, Stereo speaker, Intel [®] High Definition Audio subsystem		el [®] High Definition Audio subsystem support	
Security Chip		TPM (TCG V1.2 compliant) ^{*15}		
Card Slot	PC Card	Type I or Type II x 1 (3.3 V: 400 mA, 5 V: 400 mA)		
	ExpressCard	ExpressCard/34 or ExpressCard/54 x 1		
	SD Memory Card ^{*16}	x 1, Data transfer rate = 8 MB per second *17		
	Smart Card ^{*18}	x 1		
		1		

Main Specifications

Main Specifications

-		
RAM Module Slot	200-pin, 1.8 V, SO-DIMM, DDR2 SDRAM, PC2-5300 Compliant	
Interface	USB port (4-pin, USB 2.0) x 2, Serial Port (Dsub 9-pin male), Modem port (RJ-11), LAN port (RJ-45), External display port (Mini Dsub 15-pin female), Expansion Bus Connector (Dedicated 65-pin female), Microphone Jack (Miniature jack, 3.5 DIA, Stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω , Output Power 4 mW × 2)	
Keyboard / Pointing Device	87 keys / Touch Pad / Touchscreen (Anti-Reflection, Stylus (included) touch capable)	
Power Supply	AC adaptor or Battery pack	
AC Adaptor ^{*19}	Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 8.0 A	
Battery Pack	Li-ion 11.1 V, 7.8 Ah	
Operating Time ^{*20*21}	Approx. 6 hours to Approx. 9 hours ^{*22} (Approx. 8 hours ^{*23})	
Charging Time ^{*20}	Approx. 4.5 hours	
Clock Battery	Coin type lithium battery 3.0 V	
Power Consumption ^{*24}	Approx. 50 W ^{*25} / Approx. 100 W (Maximum when recharging in the ON state)	
Physical Dimensions (W \times H \times D) (including the carrying handle)	303.5 mm × 43.6 - 60.1 mm × 293.3 mm {12.0" × 1.7 - 2.4" × 11.6"}	
Weight (including the carrying handle)	Approx. 2.7 kg {Approx. 6.0 lb.}	
Operation Environment	Temperature: 5 °C to 35 °C {41 °F to 95 °F} Humidity: 30% to 80% RH (No condensation)	
Storage Environment	Temperature: -20 °C to 60 °C {-4 °F to 140 °F} Humidity: 30% to 90% RH (No condensation)	
Operating System	Microsoft [®] Windows [®] XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File System)	
Utility Programs	DMI Viewer, Microsoft [®] Windows [®] Media Player 10, Adobe Reader, PC Information Viewer, SD Utility, Icon Enlarger, Loupe Utility, WinDVD [™] 5 (OEM Version), B's Recorder GOLD8 BASIC, B's CLiP 6, Intel [®] Matrix Storage Manager, Intel [®] PROSet/Wireless Software ^{*13} , Bluetooth [™] Stack for Windows [®] by TOSHIBA ^{*14} , Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, LAN Power-Saving Utility, Infineon TPM Professional Package ^{*26} , Recover Pro [™] 6 ^{*26}	
	Setup Utility, PC-Diagnostic Utility, Hard Disk Data Erase Utility ^{*27}	

Wireless LAN <Only for model with wireless LAN>

Intel [®] Wireless WiFi link 4965 AGN (802.11 a + b + g) ^{*28} PCI Ex. $1/4$		
Data Transfer Rates ^{*29} IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched) IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched) IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)		
Standards Supported	IEEE802.11a/IEEE802.11b/IEEE802.11g	
Transmission method	OFDM system, DSSS system	
Wireless Channels Used	IEEE802.11a: Channels 36/40/44/48/52/56/60/64/149/153/157/161/165 IEEE802.11b/IEEE802.11g: Channels 1 to 11	
RF Frequency Band	IEEE802.11a: 5.18-5.32 GHz, 5.745-5.825 GHz IEEE802.11b/IEEE802.11g: 2.412-2.462 GHz	

Bluetooth[™] <Only for model with Bluetooth>

Bluetooth Version	2.0 + EDR
Transmission method	FHSS system
Wireless Channels Used	Channels 1 to 79
RF Frequency Band	2.402-2.48 GHz

^{*1} 1MB = 1,048,576 bytes

^{*2} You can physically expand the memory up to 4 GB, but the total amount of usable memory available will be less depending on the actual system configuration.

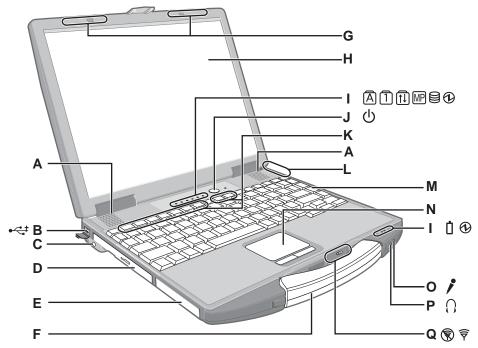
*3 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.

^{*4} 1GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.

- ^{*5} The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.
- ^{*6} If an unbalanced disc (e.g., the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.
- *7 Depending on the disc, the writing speed may become slower.
- ^{*8} Does not support DVD-RW Ver.1.0.
- *9 DVD-RAM: Only non-cartridge type or removable cartridge type can be used.
- ^{*10} Only for model with touchscreen
- *11 A 16,777,216 color display is achieved by using the dithering function.
- *12 Maximum resolution depends on the specifications of the external display.
- *13 Only for model with wireless LAN
- ^{*14} Only for model with Bluetooth
- *15 For information on TPM, click [start] [Run] and input "c:\util\drivers\tpm\README.pdf", and refer to the Installation Manual of "Trusted Platform Module (TPM)".
- *16 Operation has been tested and confirmed using Panasonic SD Memory Cards with a capacity of up to 2 GB. Operation on other SD equipment is not guaranteed. This computer is not compatible with MultiMediaCards or SDHC Memory Cards. Do not insert these kinds of cards.
- *17 Theoretical value and not the actual speed. The transfer rate does not become higher even if you use a card that supports the higher transfer rate.

- ^{*18} Only for model with Smart Card slot
- *19 <Only for North America> The AC adaptor is compatible with power sources up to 240 V AC adaptor. The computer is supplied with a 125 V AC compatible AC cord. 20-M-2-1
- *20 Varies depending on the usage conditions.
- *21 Measured with the LAN Power-saving functions Auto-off setting set to 1 minute.
- *22 Measured using BatteryMark™ Version 4.0.1 (LCD brightness: Maximum - Minimum)
- *23 Measured using MobileMark[™] 2005 (LCD brightness: 60 cd/ m²)
- *24 Approx. 1.0 W when the battery pack is fully charged (or not being charged) and the computer is OFF.
 Approx. 2.0 W when the Wake up from LAN has been enabled.
 This product meets the ENERGY STAR guideline for energy efficiency.
- *25 Rated power consumption 23-E-1
- *26 You need to install to use the feature.
- ^{*27} The Product Recovery DVD-ROM is required.
- ^{*28} It does not correspond to IEEE802.11n.
- *29 These are speeds specified in IEEE802.11a+b+g standards. Actual speeds may differ.

2. Names and Functions of Parts



- A : Speaker
- B : USB port
- C:Stylus holder
- D : Multimedia pocket
- E : Hard disk drive
- F: Carrying handle
- G :Wireless LAN antenna

<Only for model with wireless LAN>

H:LCD

<Only for model with touchscreen>

- I: LED indicator
 - A : Caps lock
 - 1 : Numeric key (NumLk)
 - [f]: Scroll lock (ScrLk)
 - MP: Multimedia pocket device status
 - : Hard disk drive status
 - Power status (Off: Power off/Hibernation, Green: Power on, Blinking green: Standby, Blinking green rapidly: Cannot power on or resume due to low temperature.)
 - 1 : Battery status

- J : Power switch
- K : Function key
- L : Bluetooth antenna

<Only for model with Bluetooth>

- M :Keyboard
- N : Touch pad
- O :Microphone jack
 - A condenser microphone can be used. If other types of microphones are used, audio input may not be possible, or malfunctions may occur as a result.
 - When recording in stereo using a stereo microphone: Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [No Filtering] in [Microphone Enhancements].
 - When using a monaural microphone with a 2-terminal plug:

Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [Voice Recording] in [Microphone Enhancements].

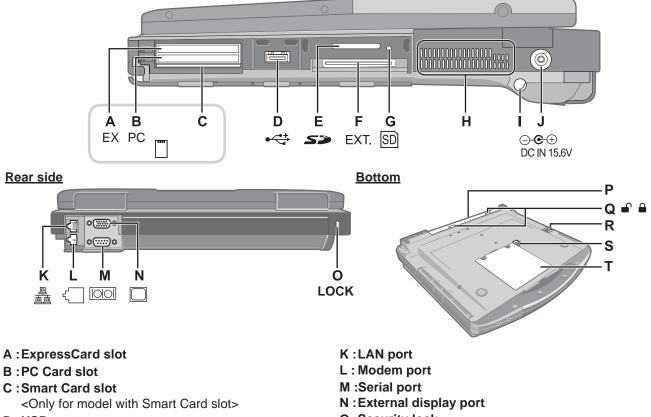
Otherwise, only audio on the left track will be recorded.

P : Headphone jack

You can connect headphones or amplified speakers. When they are connected, audio from the internal speakers is not heard.

Q :Wireless switch

Right side



- D:USB port
- E : SD Memory Card slot
- F : Expansion bus connector
- G :SD Memory Card indicator

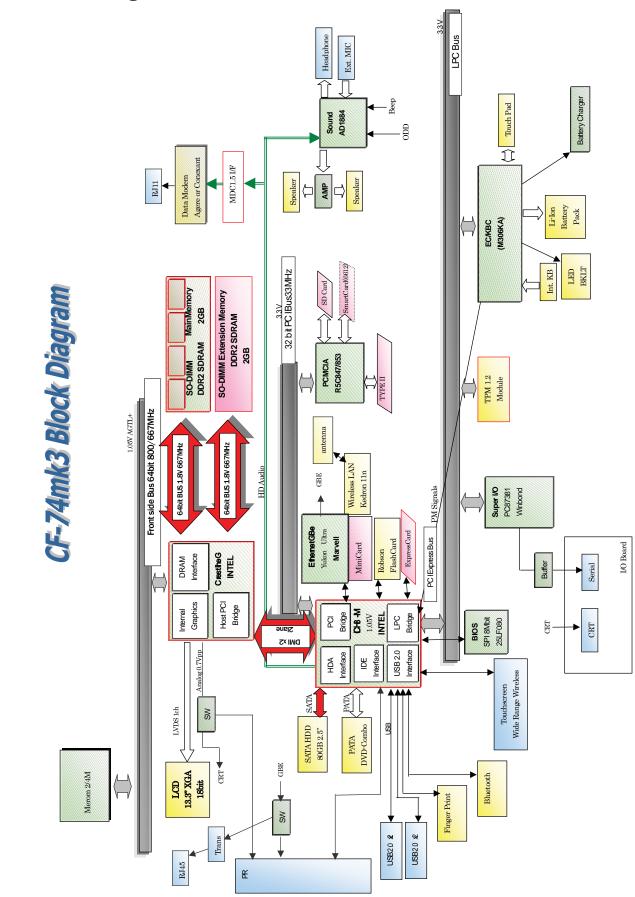
(Blinking: During access or a password is requested)

- H: Ventilation hole
- I: Stylus holder
- J: DC-IN jack

O :Security lock

A Kensington cable can be connected. For further information, read the manual that comes with the cable.

- P : Battery pack
- Q :Battery latch
- R : Multimedia pocket release button
- S : Hard disk drive latch
- T : RAM module slot



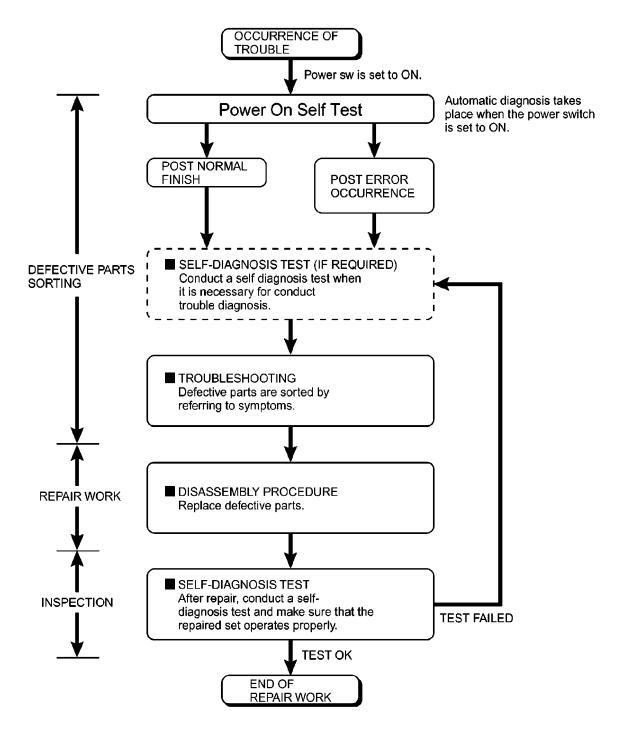
3 Block Diagram

4 Diagnosis Procedure

4.1. Basic Procedures

The basic procedures for diagnosis, disassembly, and test of defective parts of a set to be repaired are summarized below. For details, refer to relevant pages in the Service Manual.

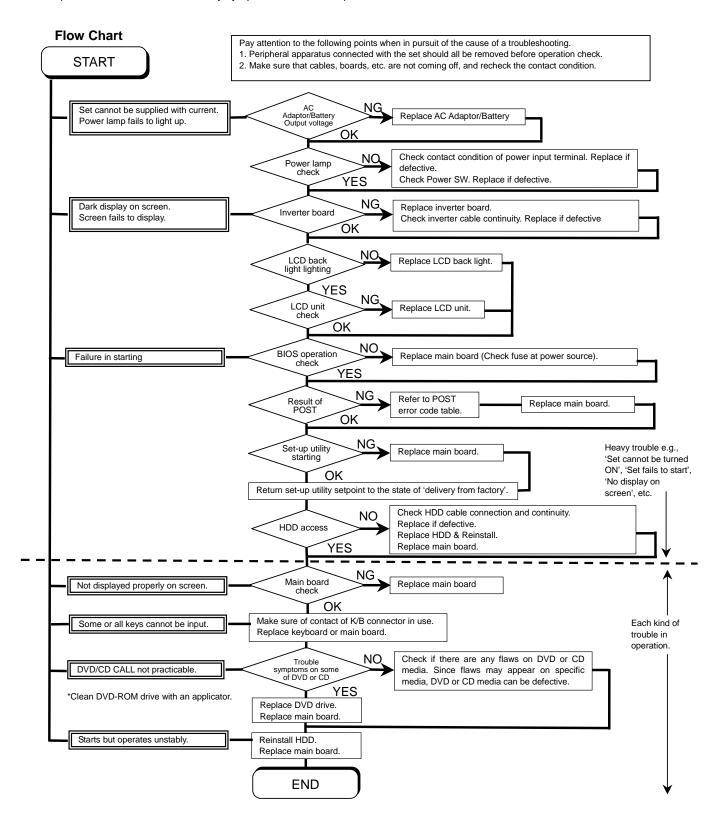
• Flow Chart



4.2. Troubleshooting

Please take note of the following two points with regard to troubleshooting:

- 1. Know-how of diagnosis upon occurrence of heavy troubles, e.g. 'Set cannot be turned ON', 'Set fails to start', 'No display on screen', etc.
- 2. Explanation of each trouble, mainly symptom of trouble in operation.



5 Power-On Self Test (Boot Check)

Outline of POST

The set has a boot check function called POST (Power-On Self Test) in it. The condition of the main body is diagnosed by checking beep sound or error code.

• StartTest begins automatically when power switch is set to ON.

• Normal finishAfter memory checking, a beep sound is issued once and the set is placed into automatic stop.

Note: If no error occurs, nothing is displayed. (No display of OK, etc.)

Error Diagnosis by Checking Beep Signal Sound

The beep sound is as follows:



(Length of bar shows length of sound.)

= long sound (about 0.4 sec.), = short sound (about 0.2 sec.), Length between sounds is about 0.1 sec.

• Table of errors classified by beep sounds

Diagnosis	Beep signal sound	Error message
Main board	1(long sound)-2	BIOS ROM error
	1-2-2-3	BIOS ROM error
	1-3-1-1	RAM error
	1-3-1-3	Keyboard controller error
	1-3-4-1	RAM error
	1-3-4-3	RAM error
	1-4-1-1	RAM error
	2-1-2-3	BIOS ROM error
	2-2-3-1	Occurrence of unexpected offering

(Note) A beep sound is also issued in case of other I/O trouble.

6 List of Error Codes < Only when the port replicator is connected>

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems. If your system displays one of except the messages marked below with an asterisk (*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

0200 Failure Fixed Disk

Fixed disk in not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset : nnnn

System RAM failed at offset nnnn of in the 64k block at which the error was detected.

0231 Shadow RAM Failed at offset : nnnn

Shadow RAM failed at offset nnnn of the 64k block at which the error was detected.

0232 Extended RAM Failed at offset : nnnn

Extended memory not working or not configured properly at offset nnnn.

0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

*0251 System CMOS checksum bad - Default configuration used

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

*0280 Previous boot incomplete - Default configuration used

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of **wait states**, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

02D0 System cache error - Cache disabled

Contact Panasonic Technical Support.

02F0: CPU ID:

CPU socket number for Multi-Processor error.

02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

02F5: DMA Test Failed

ServerBIOS2 test error: Cannot write to extended DMA (Direct Memory Access) registers.

02F6: Software NMI Failed

ServerBIOS2 test error: Cannot generate software NMI (Non-Maskable Interrupt).

02F7: Fail - Safe Timer NMI Failed

ServerBIOS2 test error: Fail-Safe Timer takes too long.

device address Conflict

Address conflict for specified device.

Allocation Error for: *device*

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified device.

Failing Bits : nnnn

The hex number *nnnn* is a map of the bits at the RAM address which failed the memory test. Each 1 (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

Operating System not found

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

Parity Check 1 nnnn

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

Parity Check 2 nnnn

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press $\langle F1 \rangle$ to start the boot process or $\langle F2 \rangle$ to enter a Setup and change the settings. Write down and follow the information shown on the screen.

7 Self Diagnosis Test

As for the self-diagnosis test(PC-Diagnostic utility) to use this model, a standard test and the enhancing test by the module of the main body building in are possible.

Notes To skip BIOS password

Use <Ctrl>+<F10> key to skip BIOS password or authentication of fingerprint. This key is only for entering DIAG mode. Not available to boot the computer. If customer set "HDD Lock", the DIAG program cannot perform HDD test. *This key is for service purpose only. Do not disclose this information to unrelated others.

1. Beginning of self-diagnosis test

1-1. Setting of content of setup

- 1. The power supply of the computer is turned on.
- 2. "F2" is pushed on the screen of "Panasonic" while " press <F2 to enter Setup> " is displayed.
- 3. The setup utility starts and then takes notes of the content of the BIOS setup of present set.
- 4. "F9 " is pushed, " Yes" is selected on the screen of " Is the default value loaded? ", and " Enter" is pushed.
- 5. " F10 " is pushed.
- 6. "Yes" is selected on the screen of the setup confirmation, and "Enter" is pushed.
- 7. The computer starts automatically.

Attention

• If the device which can be set is set to "Invalidity" by "Advanced" or "Security" menu, becomes an error by "PC-Diagnostic utility".

(It is judged that the device which can be set to "Invalidity" by "Main" menu such as "Flat pad" is normal if the controller operates normally though sets to "Invalidity" by the setup.)

• In the model with built-in DVD of the USB connection, even if DVD is normal, becomes an error if legacy USB is set to "Invalidity"

1-2. When you execute an automatic test

- 1. "Ctrl" + "F7" is pushed while the "Panasonic" start screen is displayed after the computer is started.
- 2. The test of all devices begins automatically by "PC-Diagnostic utility" 's starting.

Attention

- It is a test which the customer who bought PC can execute. (As for HDD, the enhancing test is also possible.)
- · A flat pad does not work for a while after starting "PC-Diagnostic utility".
- The movement of a flat pad might become abnormal If after RAM begins from the CPU/System test, a flat pad will be operated in about 30 seconds. In that case, restarts pushing"Alt" + "Ctrl" + "Del" key. Or, please start "PC-Diagnostic utility" again after doing the power supply switch in the slide, and turning off the power supply.

1-3. When you execute the enhancing test

- 1. Please let me discontinue diagnosing clicking 🛄 to end an automatic test.
- 2. Please click on the character of "D" "PC-Diagnostic utility" on the screen while pushing both of right "Shift" and left "Shift" keys.



- 3. All devices which can select the enhancing test make the setting of the enhancing test possible.
- 4. The district device is made"FULL" display (enhancing test).
- The test begins clicking .

*Please refer to item 4 for the error result of each test and the division of the breakdown part.

2. Operation of PC-Diagnostic Utility

-Only the device which can be inspected on the entire screen is displayed.

-The item does not appear when the device of wireless LAN etc. is not physically connected.

-The movement of the item must use an arrow key or a flat pad.



-As for the device under the diagnosis, blue and yellow are alternately displayed at the left of the icon. - The diagnosis result of the device greens at the left of the icon when it is normal, and becomes red when abnormal.



-When the test of all devices ends, the test result is displayed under the right of the screen.



-Please click while diagnosing when being stop on the way by the time the test of all devices ends. -Please click when you restart "PC-Diagnostic utility".

*Each device is tested from the beginning, and it is not possible to restart on the way.

-When the test of all devices ends, the test result is displayed under the right of the screen.

2-1. Selection of tested device

-To test only a specific device, "Test" and "Do not test" of each device can be selected.

-The device which can select the enhancing test changes in order of "The standard is tested" and "Do not test" whenever the device icon is clicked.

8	RAM 512 MB
Sta	

Start the standard test



Please begin testing clicking \square if the selection of the tested device ends.

2-2. "PC-Diagnostic utility" End method

When \bowtie of "Close" on the right of the screen is clicked, the computer reactivates automatically. Or, the power supply switch is done in the slide and the power supply is turned off.

2-3. The content of the setup is returned to the setting of the user

- 1. Turned on the computer.
- 2. "F2" is pushed on the screen while "Press<F2>to enter Setup" is displayed of "Panasonic".
- 3. Push "F10", and on the screen of "Is the change in the setting preserved and do end?" and then "Yes" is selected, and "Enter" is pushed.
- 4. The computer reactivates automatically.
- 5. The end option is chosen by the start menu, and the power supply of the computer is turned off.

Standard at test time
All devices other than RAM and HDD about 1 minute
RAM standard test 1 - 2 minutes
HDD standard test 2 - 3 minutes
HDD enhancing test (60GB) about 40 minutes

Ex.The standard when the standard <all device> is tested becomes 1+2+3=6 minutes.

There is greatly a difference from RAM test when the memory is increased according to the performance of the memory occasionally.

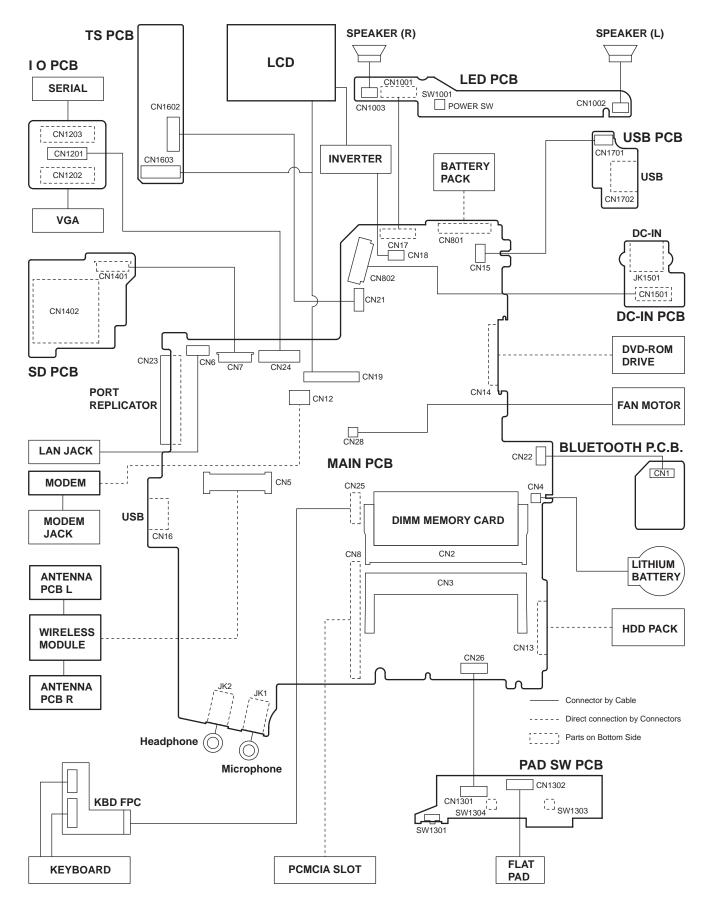
Moreover, when the main body of PC under the test is a high temperature, it occasionally takes time. There is greatly a difference from HDD according to the performance of the drive occasionally.

To skip BIOS password

Use <Ctrl>+<F10> key to skip BIOS password or authentication of fingerprint. This key is only for entering DIAG mode. Not available to boot the computer. If customer set "HDD Lock", the DIAG program cannot perform HDD test.

*This key is for service purpose only. Do not disclose this information to unrelated others.

8 Wiring Connection Diagram



9 Disassembly/Reassembly

Note:

Power off the computer. Do not shut down to the Suspend or hibernation mode.

Do not add peripherals while the computer is in the Suspend or hibernation mode; abnormal operation may result.

9.1. Disassembly Instructions

9.1.1. Preparation

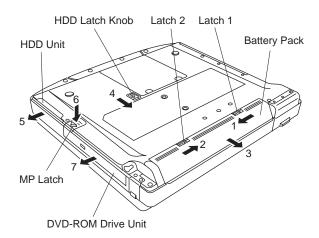
Before disassembling, be sure to make the following preparations.

- Shut down Windows and turn off the power.
- Disconnect the AC adaptor.
- Remove the optional DIMM memory card and PCMCIA card if they are connected.
- Remove other devices if they are connected.

Attention:

- Please execute writing BIOS ID when you exchange the Main Board.
- You cannot reuse the Conductive Clothes and the heat dissipating parts such as Sheet and Rubber. Use new parts.

9.1.2. Removing the Battery Pack, the HDD Unit and the DVD-ROM Drive Unit



Battery Pack

- 1. Slide the Latch 1 to unlock. (1)
- 2. Slide the Latch 2 (2), and then without releasing it, slide and remove the Battery Pack. (3)

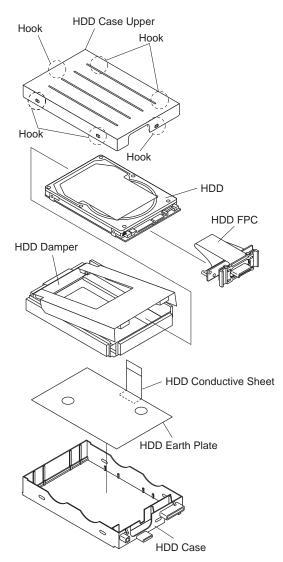
HDD Unit

1. Slide the HDD Latch Knob (4), and then without releasing it, slide and remove the HDD Unit. (5)

DVD-ROM Drive Unit

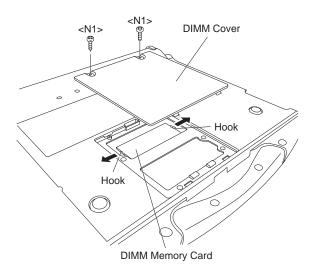
1. Push the MP Latch (6), and then without releasing it, slide the DVD-ROM Drive Unit. (7)

9.1.3. Removing the HDD



- 1. Remove the six Hooks, and remove the HDD Case Upper.
- 2. Remove the HDD Damper.
- 3. Disconnect the HDD from the HDD FPC.
- 4. Remove the HDD Conductive Sheet and HDD Earth Plate.

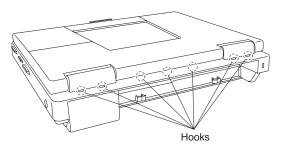
9.1.4. Removing the DIMM Memory Card



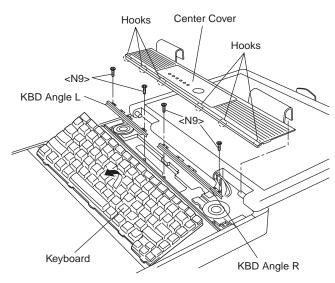
- 1. Remove the two Screws <N1>, and remove the DIMM Cover.
- 2. Open the right and left Hooks of the DIMM Memory Card outward, and remove the DIMM Memory Card.

Screws <N1>: XSB2+3FNL

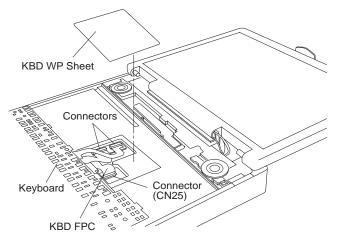
9.1.5. Removing the Keyboard



1. Release the seven Hooks fixing the rear side of the Center Cover.



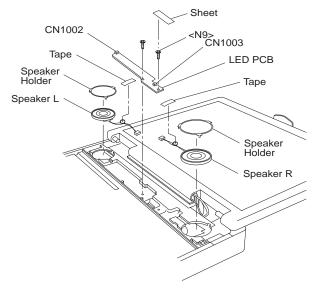
- 2. Lift the upper part of the Center Cover and draw it backward, release the six Hooks fixing the front side of the Center Cover, and then remove the Center Cover.
- 3. Remove the four Screws <N9> and the KBD Angle L and R.
- 4. Lift the upper part of the Keyboard and draw it backward, and then turn the Keyboard over forward.



- 5. Remove the KBD WP Sheet.
- 6. Disconnect the two KBD Cables from the two Connectors (KBD FPC).
- 7. Remove the Keyboard.
- 8. Disconnect the Cable from the Connector (CN25).
- 9. Remove the KBD FPC,

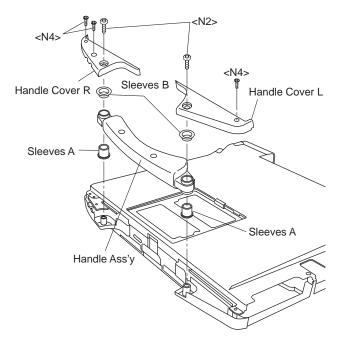
Screws <N9>: DFHE5025XA

9.1.6. Removing the Speaker and the LED PCB



- 1. Remove the two Speaker Holders.
- 2. Remove the two tapes, and disconnect the two Speaker Cables from the two Connectors (CN1002, CN1003)
- 3. Remove the Speaker L and R.
- 4. Remove the Sheet.
- 5. Remove the two Screws <N9>, and Remove the LED PCB.

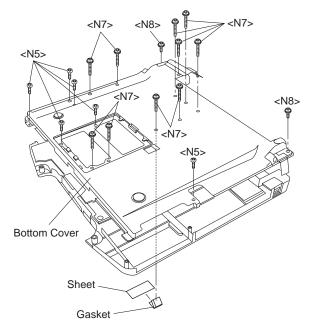
9.1.7. Removing the Handle Ass'y



- 1. Remove the two Screws <N2>.
- 2. Remove the three Screws <N4>, and remove the Handle Cover L and R.
- 3. Remove the two Sleeves A, Handle Ass'y and two Sleeves B.

Screws <N2>: DRHM4+10FKS Screws <N4>: DRSB2+6FKL

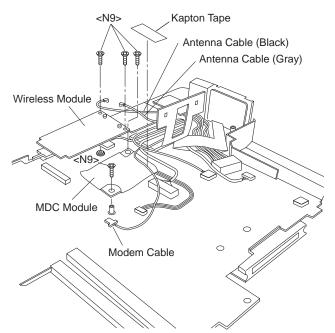
9.1.8. Removing the Bottom Case



- 1. Remove the six Screws <N5>.
- 2. Remove the ten Screws <N7>.
- 3. Remove the two Screws <N8>.
- 4. Open the Lid Rubbers and remove the Bottom Cover.
- 5. Remove the Sheet and Gasket.

Screws <N5>: DXSB2+6FNL Screws <N7>: DXYN2+J16FNL Screws <N8>: DXYN2+J8FNL

9.1.9. Removing the Wireless Module and MDC Module



- 1. Remove the two Antenna Cables from the two Connectors.
- Antenna Cable (Black): MAIN Connector
- Antenna Cable (Gray): AUX Connector
- 2. Remove the two Screws <N9>.
- 3. Remove the Wireless Module.
- 4. Remove the two Screws <N9>.
- 5. Disconnect the Modern Cable from the Connector.
- 6. Remove the Kapton tape and remove the MDC Module.

Screws <N9>: DFHE5025XA

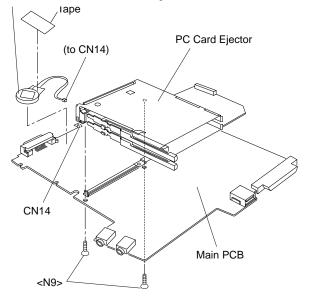
9.1.10. Removing the Main PCB

Note:

After replacing the Main Board, rewrite the BIOS ID.

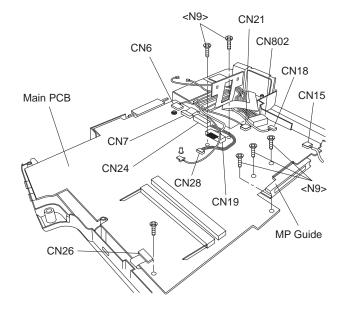
- 1. Disconnect the ten Cables from the ten Connectors (CN6, CN7, CN24, CN19, CN28, CN21, CN802, CN18, CN15, CN25).
- 2. Remove the six Screws <N9>.
- 3. Remove the Main PCB.
- 4. Remove the MP Guide.
- Screws <N9>: DFHE5025XA

9.1.11. Removing the PC Card Ejector and Lithium Battery

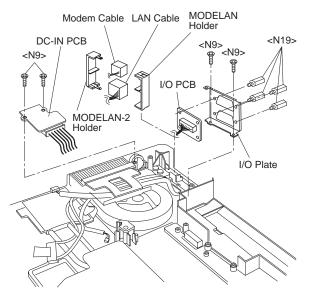


- 1. Remove the two Screws <N9>.
- 2. Remove the PC Card Ejector.
- 3. Disconnect the Cable from the Connector (CN14).
- 4. Remove the Lithium Battery.

Screws <N9>: DFHE5025XA



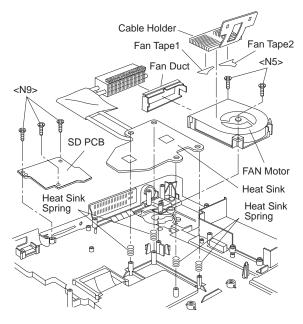
9.1.12. Removing the DC-IN PCB and I/O PCB



- 1. Remove the two Screws <N9>.
- 2. Remove the DC-IN PCB.
- 3. Remove the two Screws <N9>.
- 4. Remove the four Screws <N19>, and then the I/O PCB from the I/O Plate.
- 5. Remove the Modem Cable and LAN Cable from the MODELAN Holders.

Screws <N9>: DFHE5025XA Screws <N19>: DFHE5035ZB

9.1.13. Removing the FAN Motor and SD PCB



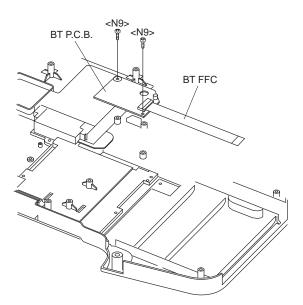
- 1. Remove the Cable Holder.
- 2. Remove the two Screws <N5>.
- 3. Remove the FAN Motor.
- 4. Remove the Heat Sink, Fan Duct, and the four Heat Sink

Springs.

- 5. Remove the three Screws <N9>.
- 6. Remove the SD PCB.

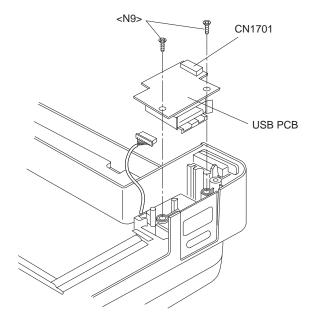
Screws <N5>: DXSB2+6FNL Screws <N9>: DFHE5025XA

9.1.14. Removing the BT PCB



- 1. Remove the two Screws <N9>.
- 2. Remove the BT FFC from the Connector (CN2) and remove the BT PCB.

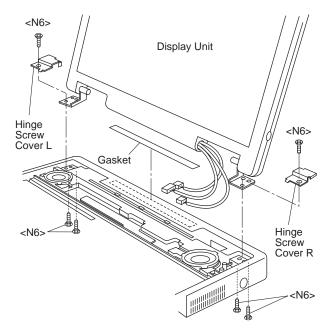
9.1.15. Removing the USB PCB



- 1. Disconnect the Cable from the Connector (CN1701).
- 2. Remove the two Screws <N9>.
- 3. Remove the USB PCB.

Screws <N9>: DFHE5025XA

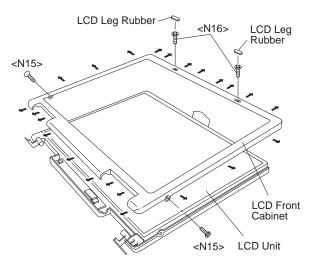
9.1.16. Removing the Display unit



- 1. Remove the four Screws <N6> from the computer bottom side.
- Remove the two Screws <N6> from the computer upper side.
- 3. Remove the Display Unit.
- 4. Remove the Hinge Screw Cover L and R.
- 5. Remove the Gasket.

Screws. <N6>: DXSB3+6FNL

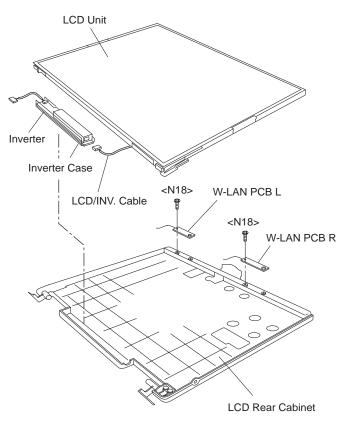
9.1.17. Removing the LCD Front Cabinet



- 1. Remove the two LCD Leg Rubbers, and then the two Screws <N16>.
- 2. Remove the two Screws <N15>.
- Release the 23 Hooks joining the LCD Front and Rear Cabinet on the LCD Front Cabinet outward. (See the Figure),
- 4. Remove the LCD Front Cabinet.

Screws <N15>: DRHM0075ZA Screws <N16>: DXQT2+G4FCL

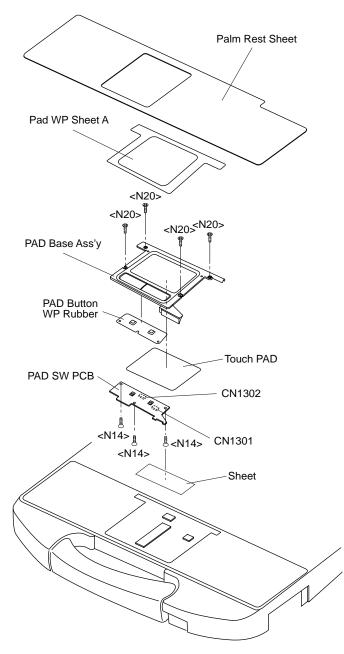
9.1.18. Removing the LCD and the Inverter



- 1. Disconnect the LCD/INV. Cable from the Connector on the Inverter.
- 2. Remove the LCD Unit.
- 3. Remove the Inverter with the Inverter Case.
- 4. Remove the two Screws <N18>, and then the W-LAN PCB L and R.

Screws <N18>: XQN17+BJ6FJ

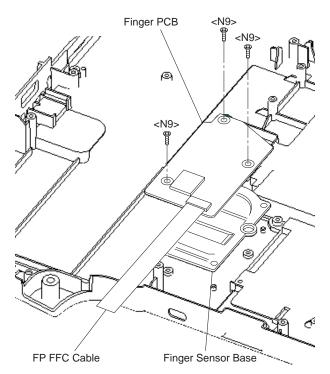
9.1.19. Removing the Touch PAD and PAD PCB



- 1. Remove the Palm Rest Sheet.
- 2. Remove the four Screws <N20>, and then PAD Base Ass'y.
- 3. Disconnect the two Cables from the two Connectors (CN1301, CN1302).
- 4. Remove the three Screws <N14>.
- 5. Remove the PAD Button WP Rubber and PAD SW PCB.
- 6. Remove the Touch PAD.

Screws <N14>: DRHM0106ZA Screws <N20>: DXQT2+G4FCL

9.1.20. Removing the Finger PCB



Preparation

- Perform the steps up to removing of the Main PCB.
- 1. Remove the three Screws. <N9>
- 2. Remove the Finger PCB and Finger Sensor Base.

Screws <N9>: DFHE5025XA

9.2. Reassembly Instructions

9.2.1. Attention when CF-74 series is repaired

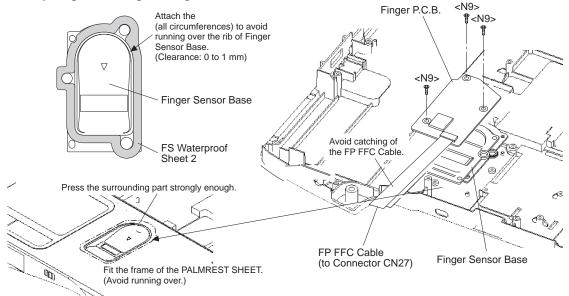
- Please execute writing BIOS ID when you exchange the Main Board.
- You cannot reuse the Conductive Clothes and the heat dissipating parts such as Sheet and Rubber. Use new parts.

9.2.2. Setting the Finger PCB

- 1. Fix the Finger PCB and the Finger Sensor Base to the computer using the 3 Screws <N9>.
- 2. Connect the FP FFC Cable to the Connector (CN27) on the Main PCB.

Screws <N9>: DFHE5025XA

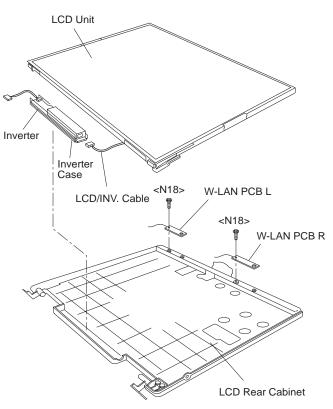
Preparing and setting the Finger Sensor Base



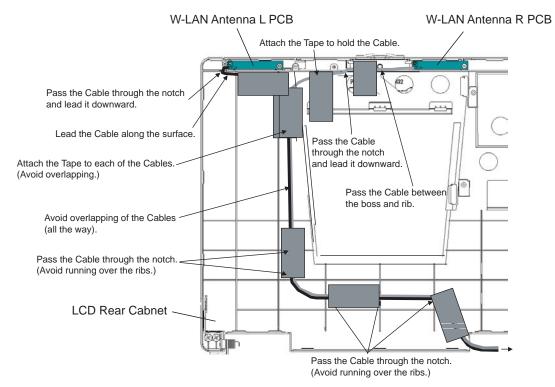
9.2.3. Setting the LCD Unit and the Inverter

- 1. Fix the W-LAN PCB L and R to the LCD Rear Cabinet using the two Screws <N18>.
- 2. Attach the Inverter with the Inverter Case to the LCD Rear Cabinet.
- 3. Set the LCD Unit to the LCD Rear Cabinet.
- 4. Connect the LCD/INV. Cable to the Connector on the Inverter.

Screws <N18>: XQN17+BJ6FJ

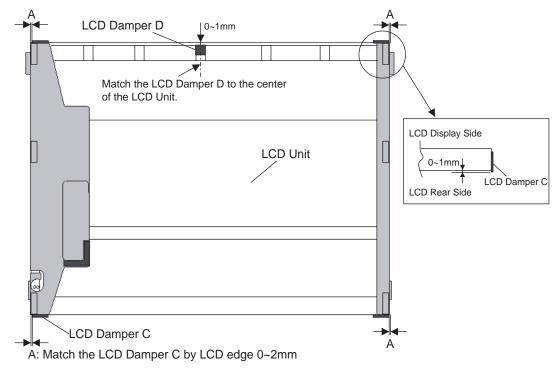


Arranging the W-LAN L and R Cable



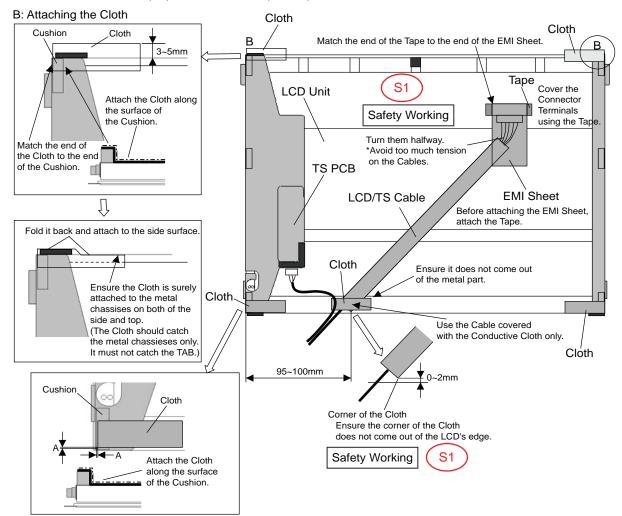
Attaching the LCD Damper C and LCD Damper D

- 1. Attach the four LCD Damper C to the upper part and lower part of the LCD Unit.
- 2. Attach the LCD Damper D to the upper center of the LCD Unit.



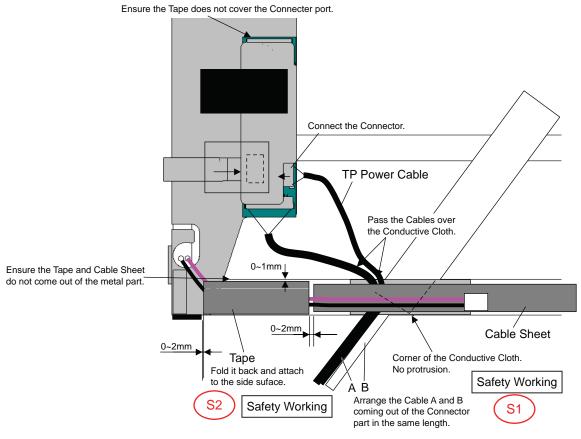
Arranging the LCD/TS Cable

- 1. Connect the LCD/TS Cable (LCD) to the Connector on the LCD Unit.
- 2. Connect the LCD/TS Cable (TS) to the Connector (CN603) on the TS PCB.



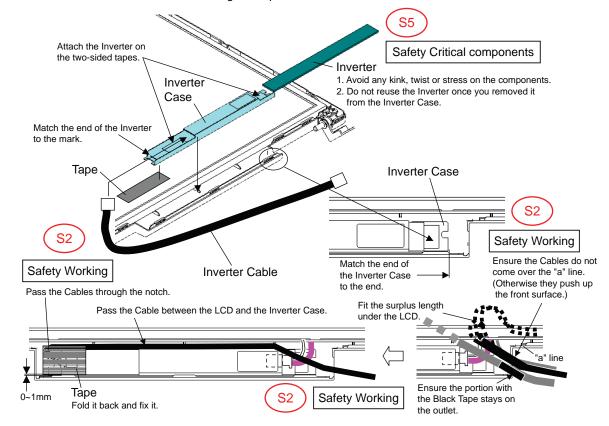
A: Match the Cloth by Cushion edge 0~1mm

Arranging the TP Power Cable and Attaching the TP/LCD Sheet

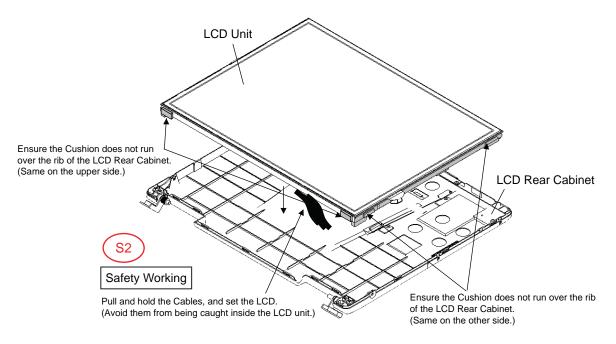


Setting the Inverter and Arranging the Inverter Cable

- 1. Insert the Inverter to the Inverter Case, and connect the Inverter Cable to the Connector on the Inverter.
- 2. Fix the Connector of the Inverter Cable using the Tape.



Cautions for Setting the LCD Unit



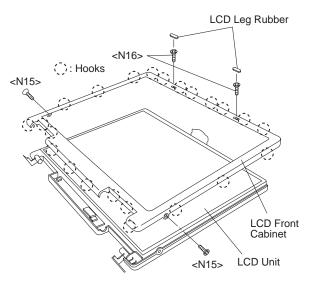
9.2.4. Setting the LCD Front Cabinet

- 1. Set the LCD Front Cabinet to the LCD Rear Cabinet.
- 2. Fix the LCD Front Cabinet using the two Screws<N15>.
- 3. Fix the LCD Front Cabinet using the two Screws<N16>, and attach the two LCD Leg Rubbers.

Screws <N15>: DRHM0075ZA Screws <N16>: DXQT2+G4FCL

Fixing of the LCD Front Cabinet

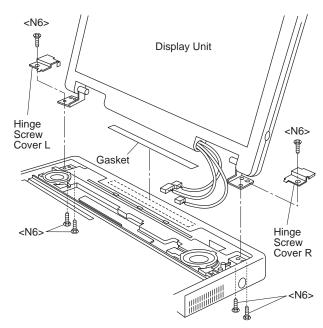
Ensure all the 23 Hooks are securely set in.



9.2.5. Setting the Display unit

- 1. Attach the Gasket.
- 2. Set the Hinge Screw Cover L and R to the Hinge L and R.
- 3. Pass the Cables coming out of the LCD Unit into the computer.
- 4. Fix the Display Unit using the two Screws<N6> from the computer upper side.
- 5. Fix the Display Unit using the four Screws<N6> from the computer bottom side.

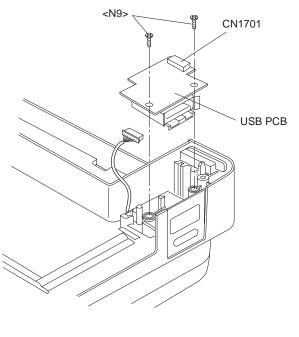
Screws. <N6>: DXSB3+6FNL



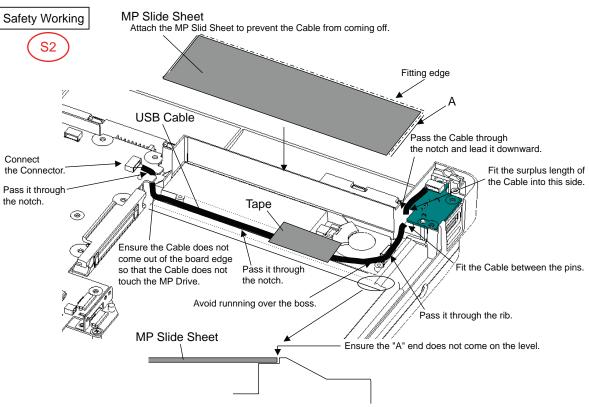
9.2.6. Setting the USB PCB

- 1. Fix the USB PCB to the computer using the two Screws<N9>.
- 2. Connect the USB Cable to the Connector (CN1701).

Screws <N9>: DFHE5025XA

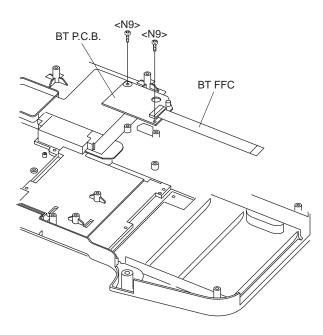


Arranging the USB Cable



9.2.7. Setting the BT PCB.

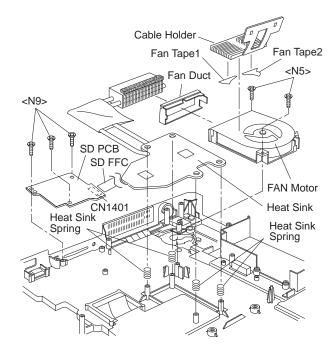
- 1. Connect the BT FFC to the Connector (CN22).
- 2. Fix the BT PCB to the computer using the two Screws $<\!\!N9\!\!>$.



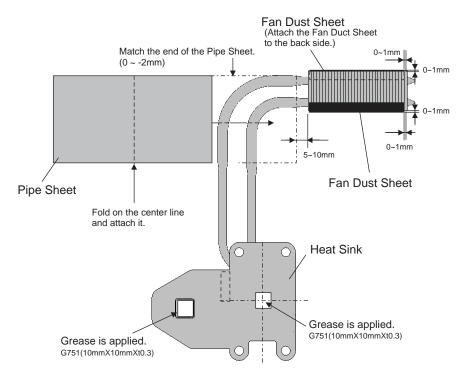
9.2.8. Setting the SD PCB, Heat Sink and FAN Motor

- 1. Connect the SD FFC to the Connector (CN1401).
- 2. Fix the SD PCB to the computer using the three Screws<N9>.
- 3. Set the Heat Sink, Fan Duct and the four Heat Sink Springs.
- 4. Fix the FAN Motor to the computer using the two Screws<N5>.
- 5. Attach the Fan Tape 1 and 2 on the FAN Motor, and fix the Cable Holder on them.

Screws <N5>: DXSB2+6FNL Screws <N9>: DFHE5025XA



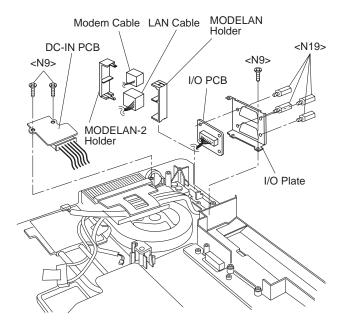
- Applying Grease on the Heat Sink1. Apply grease on two points of the Heat Sink.
- 2. Attach the Pipe Sheet on the Heat Pipe.



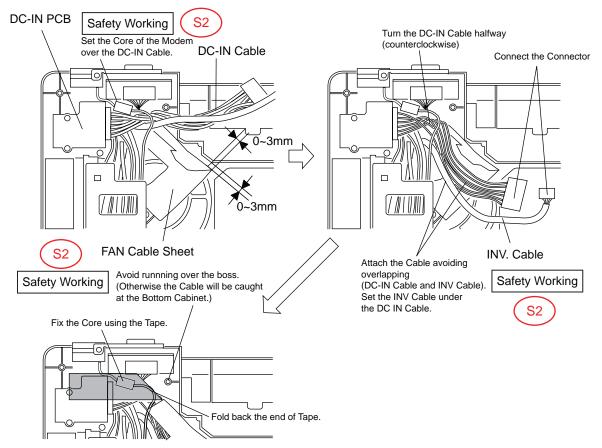
9.2.9. Setting the DC-IN PCB and I/O PCB

- 1. Fit the Modem Cable and LAN Cable between the MOD-ELAN Holders, and set them on to the computer.
- 2. Fix the I/O PCB to the I/O Plate using the four Screws<N19>.
- 3. Fix the I/O PCB with I/O Plate to the computer using the two Screws<N9>.
- 4. Fix the DC-IN PCB to the computer using the two Screws<N9>.

Screws <N9>: DFHE5025XA Screws <N19>: DFHE5035ZB



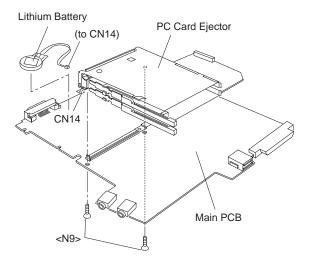
Arranging the DC-IN Cable



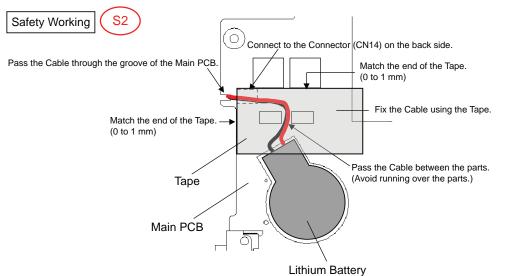
9.2.10. Setting the PC Card Ejector and Lithium Battery

- 1. Attach the Lithium Battery to the Main PCB.
- 2. Pass the Lead Wire of the Lithium Battery through the groove of the Main PCB, and connect it to the Connector (CN14) on the back side.
- 3. Fix the PC Card Ejector to the Main PCB using the two Screws<N9>.

Screws <N9>: DFHE5025XA



Arranging the Lithium Battery



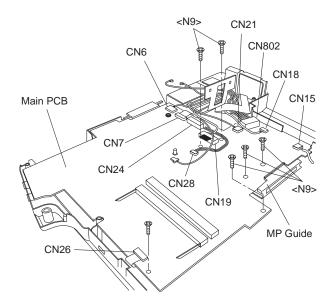
9.2.11. Setting the Main PCB

Note:

After replacing the Main Board, rewrite the BIOS ID.

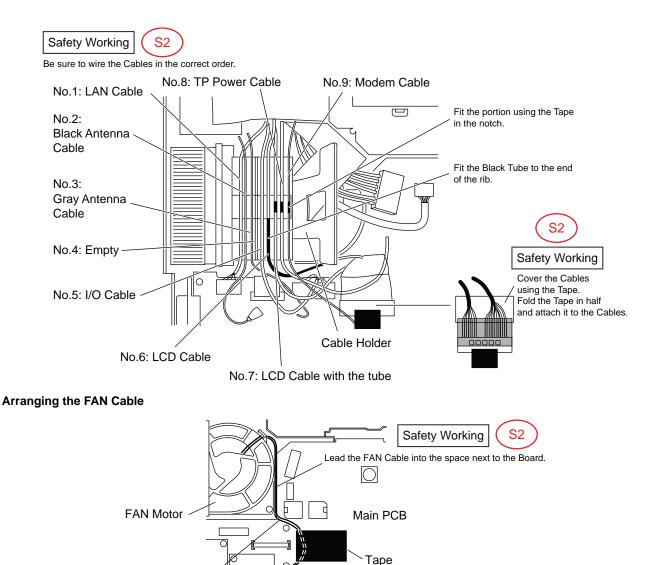
- 1. Set the MP Guide to the Main PCB.
- 2. Set the Main PCB to the computer.
- 3. Fix the Main PCB using the six Screws<N9>.
- 4. Connect the ten Cables to the corresponding Connecters (CN6, CN7, CN24, CN19, CN28, CN21, CN802, CN18, CN15, CN25).

Screws <N9>: DFHE5025XA



Arranging the Cables to the Cable Holder and their Wiring Order

- Pull the surplus length of the Cable coming from the LCD side to inside of the unit. (If the surplus length comes outside, it will be caught by the center cover during setting.)
- Fit the Cables to the corresponding grooves of the Cable Holder.
- Ensure the Cables in the Cable Holder are wired in the correct order.



Fix the FAN Cable.

1

0

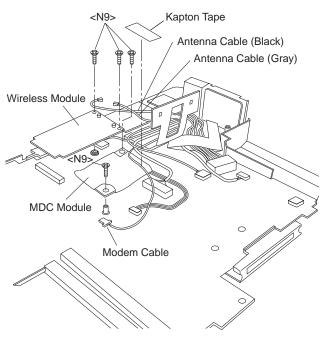
Connector (CN28) Connect the FAN Cable.

FAN Cable

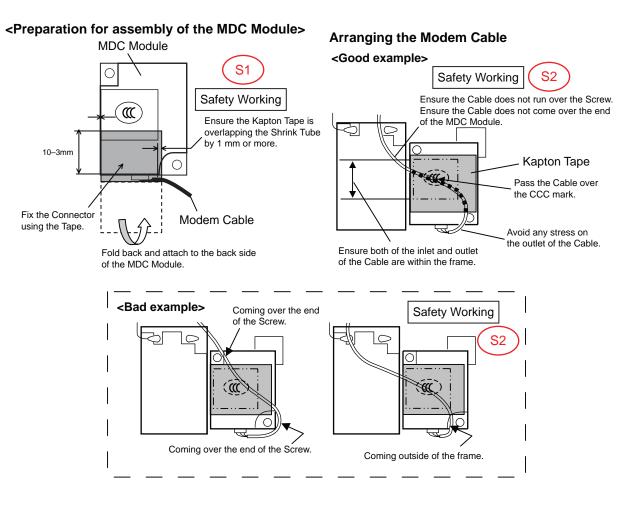
9.2.12. Setting the Wireless Module and MDC Module

- 1. Connect the Modem Cable to the Connector, and fix the MDC Module to the Main PCB using the two Screws<N9>.
- 2. Connect the Wireless Module to the Connector of the Main PCB, and fix it using the two Screws<N9>.
- 3. Connect the two Antenna Cables to the two Connectors on the Wireless Module.
 - Antenna Cable (Black): MAIN Connector
 - Antenna Cable (Gray): AUX Connector

Screws <N9>: DFHE5025XA



Arranging the Modem Cable



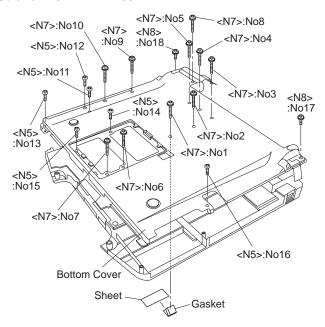
9.2.13. Setting the Bottom Case

- 1. Attach the Gasket and Sheet.
- 2. Set the Bottom Case.
- 3. Fix the Bottom Case using the ten Screws<N7>. No1 to No10
- 4. Fix the Bottom Case using the six Screws<N5>. No11 to No16
- 5. Fix the Bottom Case using the two Screws<N8>. No17, No18
- 6. Close the Lid Covers.

Note:

Tighten the Screws in the numbered order (No1 to No18).

Screws <N5>: DXSB2+6FNL Screws <N7>: DXYN2+J16FNL Screws <N8>: DXYN2+J8FNL



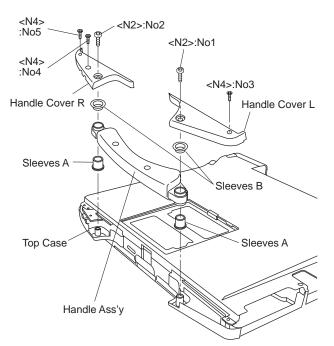
9.2.14. Setting the Handle Ass'y

- 1. Set the two Sleeves A, the Handle Ass'y and the two Sleeves B.
- 2. Fix the Handle Cover L and R using the two Screws<N2>. No1, No2
- 3. Fix the Handle Cover L and R using the three Screws<N4>. No3 to No5

Note:

Tighten the Screws in the numbered order (No1 to No5).

Screws <N2>: DRHM4+10FKS Screws <N4>: DRSB2+6FKL



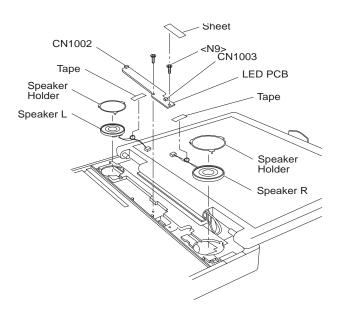
9.2.15. Setting the Speaker and the LED PCB

- 1. Fix the LED PCB using the two Screws<N9>.
- 2. Set the Speaker L and R to the computer.
- 3. Connect the Speaker Cable L and R to the two Connectors (CN1002, CN1003) on the LED PCB.
- 4. Fix the Speaker Cable L and R using the Tape.
- 5. Fix the Speaker L and R using the Speaker Holder.
- 6. Paste the Sheet.

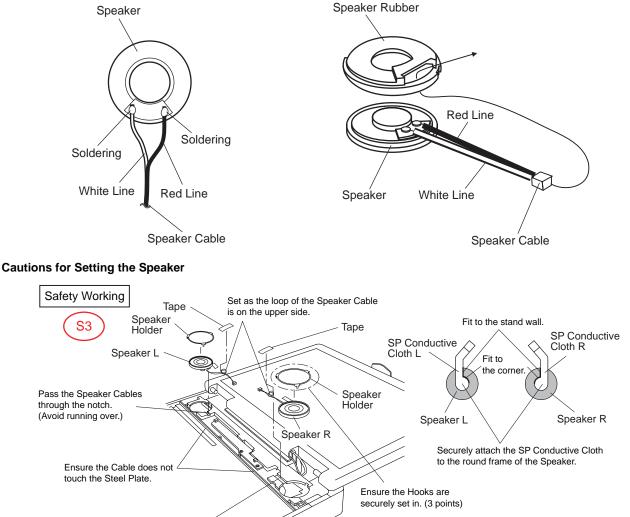
Note:

Ensure the three Hooks of the Speaker Holder are securely set in the computer.

Screws <N9>: DFHE5025XA



Soldering the Speaker Cable and Setting the Speaker Rubber



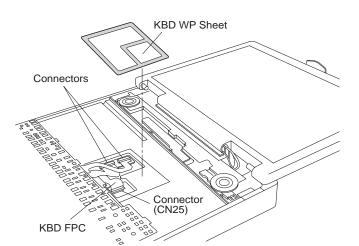
Pass the Speaker Cables through the notch. (Avoid running over.)

9.2.16. Setting the Keyboard

- 1. Connect the KBD FPC Cable to the Connector (CN25) of the Main PCB.
- 2. Connect the two Cables of the Keyboard to the two Connectors on the KBD FPC.
- 3. Remove the Release Paper of the KBD WP Sheet, and attach the KBD WP Sheet to the computer as it covers the Cable of the Keyboard.

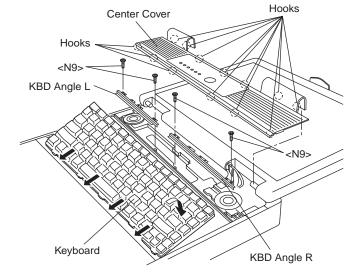
Note:

Press strongly enough until the color of the contact of two-sided tape is changed.

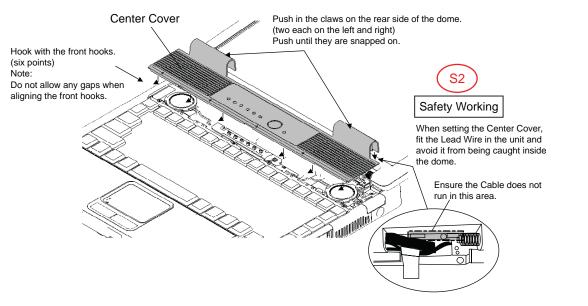


- 4. Insert the front Hooks of the Keyboard and the FPC to the computer, and set the Keyboard to the computer.
- 5. Fix the KBD Angle L and R using the four Screws<N9>.
- 6. Hook the six front Hooks of the Center Cover to the KBD Angle L and R.
- 7. Hook the seven rear Hooks of the Center Cover to the computer, and press the Center Cover to be securely set in.

Screws <N9>: DFHE5025XA



Cautions for Setting the Center Cover

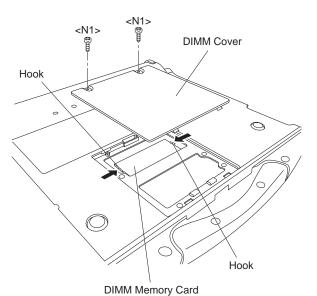


9.2.17. Setting the DIMM Memory Card and DIMM Cover

1. Set the DIMM Memory Card to the Main PCB.

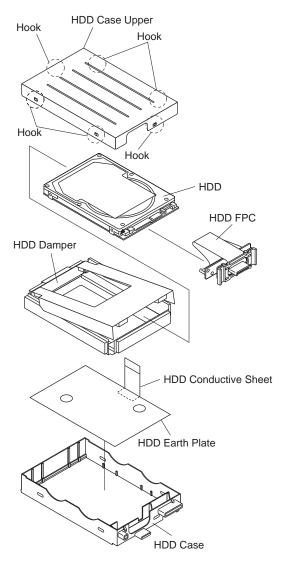
2. Fix the DIMM Cover using the two Screws<N1>.

Screws <N1>: XSB2+3FNL



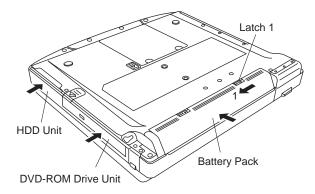
9.2.18. Setting the HDD

- 1. Attach the HDD Earth Plate and HDD Conductive Sheet.
- 2. Connect the HDD to the HDD FPC.
- 3. Attach the HDD Dumper.
- 4. Fix the six Hooks, and attach the HDD Case.

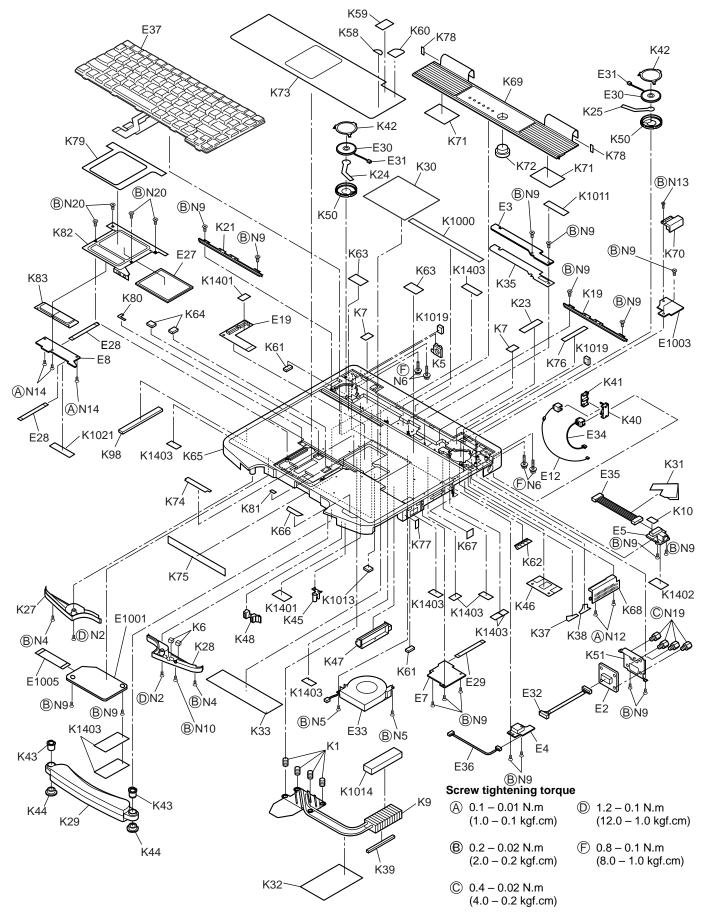


9.2.19. Setting the Battery Pack, the HDD Unit and the DVD-ROM Drive Unit

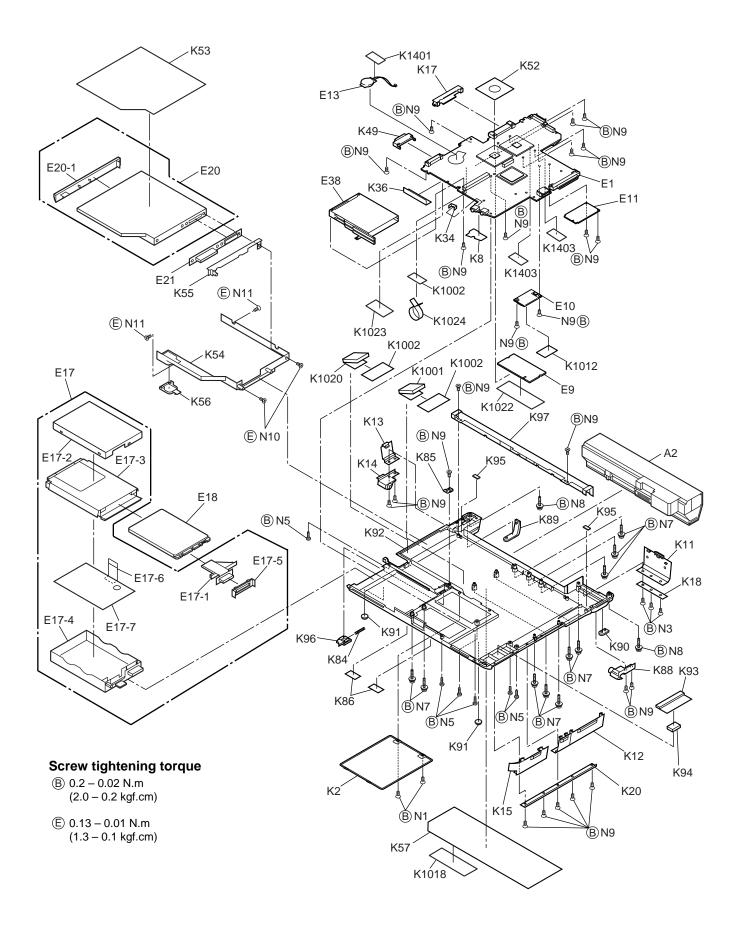
- 1. Set the DVD-ROM Driver Unit.
- 2. Set the HDD Pack.
- 3. Set the Battery Pack.
- 4. Slide the Latch 1 to the locked position.

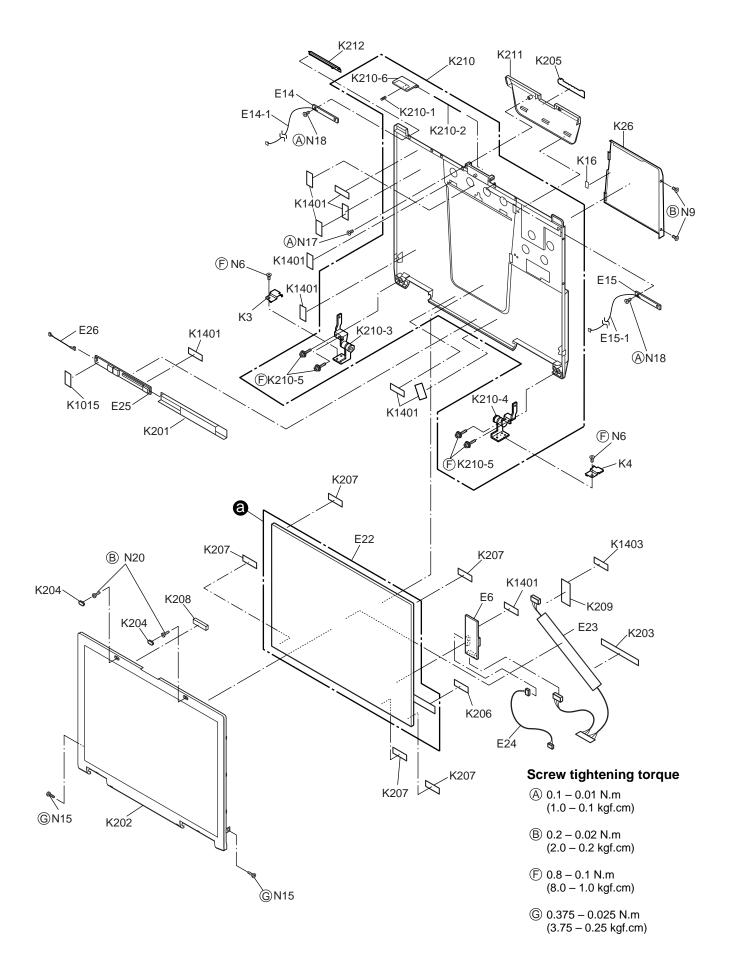


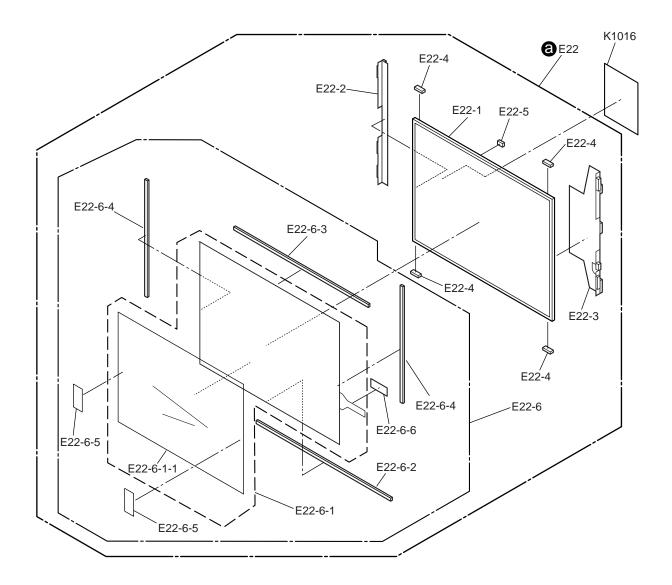
10 Exploded View



CF-74GCDADBM







Replacement Parts List

Note : Important Safety Notice

Components identified by A mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

CF-74GCDADBM

NRP: Non Reusable Parts.

REF. NO and	AREA	PART NO.	DESCRIPTION		Q'TY
Aain Block Unit					
E1		DL3U11600AAA	PCB, MAIN	RTL	
E2		DL3U21600AAA	PCB, IO	RTL	
E3		DL3U31600AAA	PCB, LED	RTL	
E4		DL3U41600AAA	PCB, USB	RTL	
E5		DL3U51600AAA	PCB, DC-IN	RTL	
E6		DL3UP1602AAA	PCB, TOUCH SCREEN	RTL	
E7		DL3U11501AAA	CF74 SUB PCB UNIT(SD)	RTL	
E8		DL3U21501AAA	CF74 SUB PCB UNIT(PAD SWITCH)	RTL	
E9		N5ZZ00000128	SO-DIMM		
E10	Δ	N5HAZ0000016	MODEM		
E11	Δ	N5HZC0000031	WIRELESS LAN MODULE		
E12		DFJS996XA	CABLE MODEM ASSY		
E13		BR-2330A/SF	LITHIUM COIN BATTERY	NRP	
E14		DL3UB1514AAA	WLAN ANT PCB UNIT	RTL	
E14-1		DFJS985ZA	CABLE ANTENNA L (Black)		
E15		DL3UG1514AAA	WLAN ANT PCB UNIT	RTL	
E15-1		DFJS817YA	CABLE ANTENNA L (Gray)		
E17		DFWV99A0115	HDD MOUNTINGK IT		
E17-1		DL3UP1500AAA	CF74 HDD FPC UNIT		
E17-2		DFHM0383ZA	HDD CASE UPPER		
E17-3		DFHR3B92ZB	HDD DAMPER		
E17-3 E17-4					
		DFHR6200ZB-0	HDD CASE		
E17-5		DFHR6203ZA			
E17-6		DFHE1027ZA	HDD CONDUCTIVE SHEET B	NRP	
E17-7	•	DFMC0872ZA	HDD EARTH PLATE		
E18	\mathbb{A}	N3CAYYY00020	HDD		
E19		DL3UP1499AAA	CF74 KBD FPC UNIT		
E20		DFWV78A0266	DRIVE, DVD-ROM & CF-R/RW		
E20-1		DFHR9119ZA	BEZEL ASSY		
E21 E22		DL3UP1260BAA			
E22 E22-1		DFWV08A0081			
		DL3DE0179AAA			
E22-2		DFHR3C55ZA DFHR3H23ZA		NRP	
E22-3		DFHR3H23ZA		NRP NRP	
E22-4 E22-5		DFHR3C57ZA	LCD DAMPER C LCD DAMPER D	NRP	
E22-5				NRP	
		DFWV84A0269	TOUCH SCREEN PANEL KIT		
E22-6-1 E22-6-1-1		DL3DV0179BAA DFHR9068ZA	PROTECTIVE FILM		
E22-6-2		DFHR3243ZA		NRP	
E22-6-3		DFHR3244ZA	LCD SHEET HDN	NRP	
E22-6-4		DFHR3245ZA	LCD SHEET SIDE	NRP	
E22-6-5		DFHR3408ZA	TP SHEET	NRP	
E22-6-6		DFMX0778ZA	SHEET	NRP	
E23		DFJS998XA	CABLE LCD+TP		
E24		DFJS993XA	CABLE TP POWER		
E25	\wedge	N0GF1J000010	INVERTER	NRP	
E26	<u>~~</u>	DFJS988ZA	CABLE INVERTER		
E27		N2EAYYY00005	TOUCHPAD	NRP	
E28		DFJK12T050DB	FFC. PAD		
E29		DFJK20T040DB	FFC SD		
E30		L0AA02A00043	SPEAKER		
E31		DFJS991ZA	CABLE SPEAKER R		
E32		DFJS997YA	CABLE SERIAL		

E33	UDQFRPH32	FAN	1
E34	DFJS995YA	CABLE LAN ASSY	1
E35	DFJS987ZA	CABLE DC IN	1
E36	DFJS992XA	CABLE USB	1
E37	N2ABZJ000033	KEYBOARD US	1
E38	K1NB94BA0001	PC CARD EJECTOR	1
E1001	DL3UP1505AAA		RTL 1
E1003	DL3UP1517AAA		RTL 1
E1005	DFJK10T053DB	FFC	1
Accessories			
A1	▲ CF-AA1683AM3	AC ADAPTOR	1
A2	<u>∧</u> N4HUNTA00002	LITHIUM ION BATTERY PACK	1
A3	A DFQW5047ZA	MANUAL	1
A4	K2CG3DR00003	AC CORD	1
A5	DFJS954ZA	MODEM CABLE	1
A6	DFHS9017ZA	TOUCHPANEL CLOTH	1
A7	DFHR6207ZA	PEN	1
Packing Material			
P1	DFPK1182YA	PACKING CASE	1
P2	DFPK1185ZA	ACCESSORY BOX	1
P3	DFPE0827ZA	HOLDER	1
P4	DFPN0834ZA	CUSHION T	2
P5	DFPN0835ZA	CUSHION B	2
Mechanical Parts			
K1	DFUQ0110ZB	HEAT SINK SPRING	4
K2	DFMD7A65ZA-0	DIMM COVER	1
K3	DFMD7A83ZA	HINGE SCREW COVER L	1
K4	DFMD7A84ZA	HINGE SCREW COVER R	1
K5	DFMD9098ZC	KENGSINTONG PLATE ASSY	1
K6	DFMC0670YA	GASKET	NRP 2
K7	DFMX0778ZA	INSULATION SHEET	NRP 2
K8	DFMX1223ZA	INSULATION SHEET JACK	NRP 1
K9	DFMY5036YA	HEATSINK	1
K10	DFMX0937ZA	DC JACK CUSHION	NRP 1
K11	DFHG1815XA-0	I/O COVER	1
K12	DFHG1905YA-0	SD USB1 COVER	1
K13	DFHG1819YA-0	USB COVER	1
K14	DFHG1831YA-0	PEN HOOLDER L OUTER	1
K15	DFHG1850ZB-0	COVER 1	1
K16	DFHG1857ZA	ANTENNA COVER CUSHION	NRP 1
K17	DFHG6034ZB	MP GUIDE	1
K18	DFHM0386ZB-0	IO COVER PLATE	1
K19	DFHM0388ZA	KBD ANGLE	1
K20	DFHM0390ZB-0	PC COVER PLATE	1
K21	DFHM0395ZB	KBD ANGLE L	1
K23	DFHE0890ZA	CONDUCTIVE TAPE	NRP 1
K24	DFHE0991ZA	CONDUCTIVE CLOTH SP L	NRP 1
K25	DFHE0992ZA	CONDUCTIVE CLOTH SP R	NRP 1
K26	▲ DFKE0822XA-0	ANT COVER NO ANT	1
K27	▲ DFKE0824ZB-0	HANDLE COVER L	1
K28	DFKE0825ZC-0	HANDLE COVER R	1
K29	▲ DFKE9082ZA-0	HANDLE ASSY	1
K30	DFHR3C29ZA	KB WATER PROOF A	NRP 1
K31	DFHR3C60ZA	FAN CABLE SHEET	NRP 1
K32	DFHR3C65ZA	SD SHEET	NRP 1
K33	DFHR3C70ZA		NRP 1
K34	DFHR3C91ZB	SHEET LED POWER	NRP 1
K35	DFHR3D05ZA	PWB 5LED SHEET	1
K36	DFHR3D06ZA		NRP 1
K37	DFHR3D08ZA		NRP 1
K38	DFHR3D10ZA		NRP 1
K39	DFHR3D13ZA		NRP 1
K40	DFHR6204ZA	MODELAN-2	1
K41	DFHR6205ZA	MODELAN	1
K42	DFHR6211ZA	SPEKAER HODLER	2
K43	DFHR6213ZB	SLEEVE A	2

K44		DFHR6214ZB	SLEEVE B		2
K45		DFHR6221ZA	LED LENZ POWER		1
K46		DFHR6234YB	CABLE HOLDER		1
K47		DFHR6235ZA	FAN DUCT		1
K48		DFHR6242ZA	JACK SPACER		1
K49		DFHR9122ZA	HDD GUIDE ASSY		1
K50		DFHG1818ZA-0			2
K51		DFHM0387ZB		NDD	1
K52	•	DFHR3F89ZA		NRP	1
K53		DFGT0944YA	MP SET LABEL		1
K54 K55	<u> </u>	DFKE0709YA-0 DFKE0710ZA-0	MP BOTTOM MP CABINET TOP		1
K55 K56	\square	DFHR6222ZA-0	MP CABINET TOP		1
K50 K57	\wedge	DFGT1247YA		NRP	1
K57	7:7	DFQT1247TA	ENERGY STAR LABEL	NRP	1
K50		DFQT9974ZA	WINDOWS XP LABEL(NOTE)	NRP	1
K60		DFQT0048ZA	CENTRINO CORE2DUO LABEL	NRP	1
K61		DFMC0855ZA	USB GASKET	NRP	2
K62		DFMC0859ZA	FINGER STICK	NRP	2 1
K63		DFHE0513ZA	EMI SHEET B	NRP	2
K64		DFHE0790ZA	USB GASKET	NRP	2
K65		DFKM0497ZC-0	TOP CASE	INIM	1
K65	<u> </u>	DFRM04972C-0 DFGL0145YA-0	INDICATOR SHEET B	NRP	ו 1
K00 K67		DFGL0145TA-0	INDICATOR SHEET SD	NRP	י 1
K68		DFGX0438ZA-0	FIN COVER		1
K69		DFGX9023ZB-0	CENTER COVER ASSY		1
K70		DFGX0434YA-0	BT ANT COVER		1
K70		DFGE0132ZB-0	CENTER COVER NET	NRP	2
K72		DFBC0316ZA-0	POWER SW BUTTON	i i i i	1
K72		DFHR3B96ZB-0	PALMREST SHEET	NRP	1
K74		DFHR3C30ZA	KB WATER PROOF B	NRP	1
K75		DFHR3C63ZA	MP SLIDE SHEET	NRP	1
K76		DFHR3C98ZA	KBD WP FIN	NRP	1
K77		DFHR3D11ZA	PC CARD SHEET	NRP	. 1
K78		DFHR3D43ZA	CENTER COVER SPACER	NRP	2
K79		DFHR3D48ZA	PAD WP SHEET A	NRP	- 1
K80		DFHR3D49ZA	PAD WP SHEET B	NRP	1
K81		DFHR3D50ZA	PAD WP SHEET C	NRP	1
K82		DFGX9024YC-0	PAD BASE ASSY	NRP	1
K83		DFHR3B95YA	PAD BUTTON WP SHEET		1
K84		DFUQ0105ZA	LOCK SPRING HDD		1
K85		DFMD7B44ZA	HDD LOCK SPRING HOLDER		1
K86		DFHE0326XA	DIMM COVER GASKET	NRP	2
K88		DFHG1832YA-0	PEN HOLDER R OUTER		1
K89		DFHG1839ZB-0	LEG LEFT	NRP	1
K90		DFHG1840ZB-0	LEG RIGHT	NRP	1
K91		DFHG370ZA-1	FOOT RUBBER	NRP	2
K92	\wedge	DFKF0264ZE-0	BOTTOM CASE		1
K93	دب	DFHR3C64ZC	NO SC SHEET	NRP	1
K94		DFHR3C99ZA	NO SC CUSHION	NRP	1
K95		DFHR3D15YA	PEN FRICTION SHEET	NRP	2
K96		DFHR6202ZA-0	HDD LATCH KNOB		1
K97		DFHR6209ZA	PEN HOLDER		1
K98		DFHE0997ZA	GASKET	NRP	1
K201		DFMX1284ZA	INVERTER CASE 74	NRP	1
K202	\wedge	DFKF0266ZA-0	LCD FRONT		1
K203		DFHR3599ZA	TP/LCD SHEET	1	1
K204		DFHG1399XA-0	LCD LEG RUBBER	NRP	2
K205		DFHR3C84ZA-0	PANASONIC BADGE	NRP	1
K206		DFMX0778ZA	INSULATION SHEET	Ī	1
K207		DFHE0277ZA	GASKET	NRP	5
K208		DFHE0418ZA	LID MAGNET	NRP	1
K209		DFHE0465ZA	EMI SHEET 5	NRP	1
K210	\wedge	DFKM9035YD-0	LCD REAR ASSY	İ	1
K210-1		DFUQ0095ZA	LCD LATCH SPRING	İ	1
K210-2		DFDF3147ZA	LCD LATCH SHAFT		1

K210-3	DFBH3045YB	HINGE L		1
K210-4	DFBH3046YB	HINGE R		1
K210-5	DXSB3+6FNL	SCREW		4
K210-6	DFKE0830YA-0	LCD LATCH		1
K211	DFGX0432ZB-0	ANTENNA COVER C		1
K212	DFGX0433ZA-0	ANTENNA COVER L		1
K1000	DFHE1024ZA	GASKET-81TS10-2.5-145	NRP	1
K1001	DFHE1026ZA	GASKET-81TL15-14-10	NRP	1
K1002	DFHR7518ZA	SHEET	NRP	3
K1011	DFHR3G18ZA	BIS HEAD SHEET	NRP	1
K1012	DFMX0709ZA	INSULATION SHEET		1
K1013	DFMY0463ZA	MCH THERMAL RUBBER		1
K1014	DFMY0465ZA	HEAT INSULATING SPONGE	NRP	1
K1015	DFHR3862ZA	TAPE	NRP	1
K1016	DFHR3D73ZA	LCD CABLE SHEET		1
K1018	DFQT0050ZA	COA LAMINATE SHEET LARGE	NRP	1
K1019	DFHR3D67ZA	BATT SHEET	NRP	2
K1020	DFMC0888ZA	MP GASKET S	NRP	1
K1021	DFHR3827ZA	PROTECT TAPE	NRP	1
K1022	DFMY3239ZB	DIMM THERMAL SHEET	NRP	1
K1023	DFMX1286ZA	2ND DIMM INSULATION	NRP	1
K1024	DFMY3228ZA	MCH THERMAL PLATE	NRP	1
K1401	TPD-X0033A	*TAPE (19mmX30mm)	NRP	13
K1402	TPD-X0033A	*TAPE (19mmX50mm)	NRP	1
K1403	TPD-X0034A	*TAPE (10mmX30mm)	NRP	13
		* TPD-X0033A and TPD-X0034A are provided as a		
		50Meter-Roll.		
N1	XSB2+3FNL	SCREW		2
N2	DRHM4+10FKS	SCREW		2
N3	DRHM5025YA	SCREW		3
N4	DRSB2+6FKL	SCREW		2
N5	DXSB2+6FNL	SCREW		8
N6	DXSB3+6FNL	SCREW		6
N7	DXYN2+J16FNL	SCREW		10
N8	DXYN2+J8FNL	SCREW		2
N9	DFHE5025XA	SCREW		44
N10	DRQT2+E8FKL	SCREW		3
N11	DFHE5067YA	SCREW		2
N12	DXHM0056ZA	SCREW		2
N13	DXQT2+E6FNL	SCREW		1
N14	DRHM0106ZA	SCREW		3
N15	DRHM0075ZA	SCREW	NRP	2
N17	XQN17+BJ5FJK	SCREW		1
N18	XQN17+BJ6FJ	SCREW		2
N19	DFHE5035ZB	SCREW		4
N20	DXQT2+G4FCL	SCREW		6

Note: Important Safety Notice

Components identified by A mark have special characteristics important for safety.

When replacing any of these components use only manufacturer's specified parts.

CF-74GCDADBM

REF. NO and AREA	PART NO.	DESCRIPTION	Q'TY
MAIN PCB			
MAIN PCB 1, 2, 3, 4, 5, 7, 50, 51, 55, 81, 95, 96, 97, 99, 101, 103, 105, 106, 116, 117, 119, 120, 123, 124, 125, 126, 149, 152, 158, 159, 160, 161, 163, 166, 169, 170, 173, 184, 187, 202, 203, 204, 205, 206, 207, 208, 209, 215, 216, 217, 218, 219, 220, 221, 223, 225, 226, 228, 229, 230, 231, 234, 235, 236, 237, 241, 246, 247, 248, 250, 251, 263, 266, 281, 282, 286, 287, 288, 291, 296, 297, 298, 300, 301, 304, 306, 308, 309, 310, 311, 314, 347, 349, 351, 352, 353, 356, 357, 358, 365, 372, 373, 389, 397, 400, 401, 402, 403, 406, 412, 417, 428, 431, 432, 433, 446, 447, 450, 451, 453, 456, 457, 458, 459, 460, 461, 462, 463, 464, 467, 470, 473, 477, 481, 482, 483, 489, 504, 505, 506, 510, 512, 519, 526, 529, 535, 536, 537, 538,	F1G1C104A042	CAPACITOR, 16V, 0.1µF	158
539, 540, 541, 542, 861, 6, 71, 88, 89, 155, 174, C 175, 386, 517, 840, 854, 859, 937, 975	EEFCX0D221R	CAPACITOR, 2V, 220µF	14
11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 44, 45, 64, 85, 86, 93, 94, 102, 109, 115, C 118, 121, 122, 150, 151, 157, 171, 177, 186, 199, 200, 201, 211, 213, 243, 245, 265, 269, 271, 283, 307, 326, 385, 387, 421, 484, 490, 495, 496, 503, 515, 520, 525, 532, 544, 818, 819, 831, 845, 863	F1J0J106A016	CAPACITOR, 6.3V, 10µF	84
46, 262, 264, 302, 303, 305, 398, 399, 410, 416, C 418, 424, 832, 834, 844, 847, 849, 851, 869, 882, 953, 954, 955, 961, 963, 970	F1G1H102A496	CAPACITOR, 50V, 1000pF	26
C 83, 179, 498, 499, 500, 501, 513	F1G0J474A001	CAPACITOR, 6.3V, 0.47µF	7
C 84, 182, 183, 324, 335, C 391, 507, 508, 518, 523	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	10
87, 90, 154, 180, 181, C 185, 254, 394, 442, 455, 479, 480, 485, 502, 514	F1G0J105A001	CAPACITOR, 6.3V, 1µF	15

108, 143, 144, 145, 146,			
147, 148, 176, 238, 239,			
C 318, 319, 320, 321, 322,	F1G1A104A014	CAPACITOR, 10V, 0.1µF	25
323, 336, 348, 388, 426,			
429, 434, 436, 471, 472			
C 110, 382, 383, 384	F1H2A103A020	CAPACITOR, 100V, 0.01µF	4
C 127, 128	F1G1H180A542	CAPACITOR, 50V, 18pF	2
132, 133, 134, 138, 172,			
191, 192, 195, 196, 252,			
274, 367, 371, 374, 375,			
C 392, 407, 419, 445, 452,	F1G1E103A062	CAPACITOR, 25V, 0.01µF	31
492, 493, 494, 808, 823,			
864, 888, 889, 891, 920,			
924			
153, 197, 214, 222, 227,			
242, 256, 267, 268, 272,			
C 276, 277, 312, 317, 325,	F1H1A1050015	CAPACITOR, 10V, 1µF	25
390, 440, 497, 865, 923,		, - , k	
926, 956, 957, 958, 964			
C 167, 313, 430, 435, 960	F1G1H1010005	CAPACITOR, 50V, 100pF	5
C 178, 188, 338, 487, 488,			
C 491, 509, 511, 521, 533	F1J0J226A051	CAPACITOR, 6.3V, 22µF	10
			0
C 193, 194	F1G1H1R0A543	CAPACITOR, 50V, 1pF	2
C 210, 232	F1G1H5R0A452	CAPACITOR, 50V, 5pF	2
C 244	F1G1C473A004	CAPACITOR, 16V, 0.047µF	1
C 249	F1L3D102A003	CAPACITOR, 2000V, 1000pF	1
C 261	EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	1
C 273, 275, 360, 393	F1G1H221A496	CAPACITOR, 50V, 220pF	4
			1
C 285	F1G1H330A542	CAPACITOR, 50V, 33pF	
C 289, 290, 292, 293	F1J1E105A080	CAPACITOR, 25V, 1µF	4
C 299, 316, 327, 328	F1L0J107A016	CAPACITOR, 6.3V, 100µF	4
361, 362, 363, 364, 366,			
C 368, 369, 370, 833, 846,	F1G1H100A544	CAPACITOR, 50V, 10pF	14
850, 872, 878, 971			
C 379, 380, 466, 468	F1L1H220A066	CAPACITOR, 50V, 22pF	4
C 408, 409, 437	F1G0J334A001	CAPACITOR, 6.3V, 0.33µF	3
C 415	F1G1A683A014	CAPACITOR, 10V, 0.068µF	1
			2
C 422, 454	EEFCX0D331R	CAPACITOR, 2V, 330µF	
C 425	F1G1E472A062	CAPACITOR, 25V, 4700pF	1
C 438, 439	F1H1A225A039	CAPACITOR, 10V, 2.2µF	2
802, 803, 809, 813, 814,			
c 816, 836, 867, 876, 900,	F1L1E226A094	CAPACITOR, 25V, 22µF	17
⁰ 927, 931, 932, 934, 938,	1 121220/004	0Ai A0i 0R, 20V, 22µi	17
950, 951			
C 810, 812	F1J1E224A081	CAPACITOR, 25V, 0.22µF	2
820, 935, 936, 939, 940,	E414414000004		<u> </u>
C 959	F1H1H1830001	CAPACITOR, 50V, 0.018µF	6
C 822, 972	F1G1H471A496	CAPACITOR, 50V, 470pF	2
C 825, 826, 827, 829	EEFSX0D331ER	CAPACITOR, 2V, 330µF	4
C 837, 858	F1H1H182A748	CAPACITOR, 50V, 1800pF	2
	1 11 11 11 02A/40		<u> </u>
C 838, 855, 856, 874, 877,	F1H1C224A074	CAPACITOR, 16V, 0.22µF	7
	1 11110224A074		1
965, 974	1 11110224A074		
839, 857, 873, 903, 906,			
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933,	F1H1H104A748	CAPACITOR, 50V, 0.1µF	11
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945	F1H1H104A748	CAPACITOR, 50V, 0.1µF	
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933,		CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF	11
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945	F1H1H104A748	CAPACITOR, 50V, 0.1µF	
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978	F1H1H104A748 F1K1E1060001	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF	4
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF	4 2 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF	4 2 1 2
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF	4 2 1 2 2 2
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881 C 870	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF	4 2 1 2 2 2 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF	4 2 1 2 2 2
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881 C 870	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF	4 2 1 2 2 2 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881 C 870 C 883, 884 C 898	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0J101R F1G1E223A062	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF	4 2 1 2 2 2 1 2 1 2
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 899, 952	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0J101R F1G1E223A062 F1G1H222A496	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF CAPACITOR, 50V, 2200pF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 2 2
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 899, 952 C 904	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0G151R EEFCX0J101R F1G1E223A062 F1G1H222A496 F1J1E105A009	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF CAPACITOR, 50V, 2200pF CAPACITOR, 25V, 1µF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 899, 952 C 904 C 929	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0J101R F1G1H222A062 F1G1H222A496 F1J1E105A009 F1G1H152A496	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 1500pF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 899, 952 C 904 C 929 C 941	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0J101R F1G1H222A062 F1G1H22A496 F1J1E105A009 F1G1H390A542	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 1500pF CAPACITOR, 50V, 1500pF CAPACITOR, 50V, 39pF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 862 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 904 C 929 C 941 C 942	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0G151R EEFCX0J101R F1G1H223A062 F1G1H22A496 F1J1E105A009 F1G1H390A542 F1G1H271A496	САРАСІТОR, 50V, 0.1µF САРАСІТОR, 25V, 10µF САРАСІТОR, 50V, 4700pF САРАСІТОR, 2V, 100µF САРАСІТОR, 2V, 100µF САРАСІТОR, 50V, 820pF САРАСІТОR, 50V, 0.01µF САРАСІТОR, 50V, 0.01µF САРАСІТОR, 6.3V, 100µF САРАСІТОR, 6.3V, 100µF САРАСІТОR, 25V, 0.022µF САРАСІТОR, 50V, 2200pF САРАСІТОR, 50V, 2200pF САРАСІТОR, 50V, 1500pF САРАСІТОR, 50V, 1500pF САРАСІТОR, 50V, 39pF САРАСІТОR, 50V, 270pF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1
839, 857, 873, 903, 906, C 918, 925, 928, 930, 933, 945 C 843, 853, 977, 978 C 860, 976 C 866, 871 C 868, 881 C 870 C 883, 884 C 898 C 899, 952 C 904 C 929 C 941	F1H1H104A748 F1K1E1060001 F1H1H472A748 EEFCD0D101ER F1G1H821A496 F1H1H103A748 EEFCX0G151R EEFCX0J101R F1G1H222A062 F1G1H22A496 F1J1E105A009 F1G1H390A542	CAPACITOR, 50V, 0.1µF CAPACITOR, 25V, 10µF CAPACITOR, 50V, 4700pF CAPACITOR, 2V, 100µF CAPACITOR, 50V, 820pF CAPACITOR, 50V, 0.01µF CAPACITOR, 2V, 150µF CAPACITOR, 6.3V, 100µF CAPACITOR, 25V, 0.022µF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 2200pF CAPACITOR, 50V, 1500pF CAPACITOR, 50V, 1500pF CAPACITOR, 50V, 39pF	4 2 1 2 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1

C 962	1	F1G1H181A495	CAPACITOR, 50V, 180pF	1
C 962		F1G1H561A495	CAPACITOR, 50V, 1800F	1
C 967		F1G1H151A495	CAPACITOR, 50V, 150pF	1
C 968		F1G1H470A542	CAPACITOR, 50V, 47pF	1
C 969		F1G1H331A496	CAPACITOR, 50V, 330pF	1
CF 1, 2, 3		D4CC1103A038	THERMISTOR	3
CN 2		K1MYL0B00004	CONNECTOR	1
CN 3		K1MYL0B00005	CONNECTOR, DIMM	1
CN 4		K1KA02BA0014	CONNECTOR	1
CN 5		K1MY52BA0190	CONNECTOR	1
CN 6, 21		K1KA08BA0014	CONNECTOR	2
CN 7		K1MN20BA0134	CONNECTOR	1
CN 8		K1NAF0D00003	CONNECTOR	1
CN 12		K1KB12A00099	CONNECTOR	1
CN 13		K1KY42B00001	CONNECTOR	1
CN 14		K1KA62B00003	CONNECTOR	1
CN 15		K1KA06BA0014	CONNECTOR	1
CN 16		K1FY104BA024	CONNECTOR, USB	1
CN 17			CONNECTOR	1
		K1KY50AA0103	CONNECTOR	
CN 18 CN 19		K1KA05BA0014		1
		K1KB40AA0049		2
CN 22, 27 CN 23		K1MN10BA0134 K1FY165EA001	CONNECTOR CONNECTOR	2
CN 24 CN 25		K1KA30BA0060		1
		K1MN30AA0018	CONNECTOR	
CN 26		K1MN12BA0160		1
CN 29		K1KA02BA0085	CONNECTOR	1
CN 801		K1KA10B00213	CONNECTOR	1
CN 802		K1KA06BA0128	CONNECTOR	1
D 2, 3, 9, 23, 42		MA2J72900L	DIODE	5
D 4 10, 806, 807, 809, 810,		MA3J741E0L	DIODE	1
^D 812, 840, 845, 846		B0JCMD000014	DIODE	9
D 12, 13, 14, 15, 16, 17, 18, 21, 22, 24, 837, 838,		B0ADDH000004	DIODE	13
D 19, 20, 34		B0KB00000044	DIODE	3
D 33, 821, 823, 824		MA2S111-TX	DIODE	4
D 38		B3ABB0000210	DIODE	1
D 39		B3AGB0000040	DIODE	1
D 40		B3ADB0000065	DIODE	1
D 801, 804, 827, 828, 829, 830, 835, 836		B0JCPD000023	DIODE	8
D 805, 808, 811		B0ADCJ000025	DIODE	3
D 813, 814, 815, 816, 817, 818, 819, 841		MAZ80620ML	DIODE	8
D 820		B2ABAM000002	DIODE	1
D 825		MAZ81800ML	DIODE	1
D 826		MAZ81200ML	DIODE	1
D 832		B0JDRE000007	DIODE	1
D 833, 834		B0JDBE000002	DIODE	2
F 1, 2, 4, 5, 10	<u>ک</u> ;	K5H202Z00005	FUSE, 2A, 32V	5
F 3	<u>ک</u>	K5H402Z00003	FUSE, 4A, 32V	1
F 800, 801, 802	j	K5H153A00001	FUSE, 15A, 65V	3
1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, FL 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 33, 34, 35, 36, 37		F1H0J1050022	CAPACITOR, 6.3V, 1µF	32
FL 2, 3, 4		J0JDC0000038	CHIP BEADS	3
38, 39, 40, 41, 42, 43, FL 44, 45, 46, 47, 48, 49,		F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	18
50, 51, 52, 53, 54, 55		00000000000		
IC 1		C2GBD0000033		1
IC 2		C1CB00002734	TEMPERATURE SENSOR	1
IC 6		C0JBBZ000319	PLL	1
IC 7		C0JBAZ002192	IC	1
IC 9, 32, 42, 63, 71, 86, 819		C0JBAA000362		7
IC 10	I	C1CB00002732	LAN CONTROLLER	1

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IC 11		C3EBFY000002	SERIAL EEPROM	1
IC 12		C0DBEFE00003	IC	1
IC 13		C1CB00002478	IC, LAN SWITCH	1
IC 15		C0DBZYY00271	IC	1
IC 16		C0DBZYY00016	IC	1
IC 17		C1CB00002278	IC, SUPER I/O	1
IC 18		C0ZBZ0000978		1
			IC, SPI FLASH MEMORY	_
IC 20		C3FBLY000024		1
IC 21		C1CB00002268	IC, SECURITY CHIP	1
IC 22		C0CBCBC00137	IC, REGULATOR	1
IC 23		C2CBJA000003	IC, MICON	1
IC 26		C1AB00002507	IC, AUDIO POWER AMPLIFIER	1
IC 27, 28		C0JBZZ000383	IC	2
IC 29, 46, 74		C0DBZYY00026	IC, USB POWER SW	3
IC 30, 84		C0JBAB000624		2
IC 33		C0JBAE000321	IC, LOGIC	1
	-			_
IC 35, 812		C0JBAB000621	IC, LOGIC	2
IC 36, 87		C0JBAR000500	IC, SWITCH	2
IC 37		C0JBAA000254	GATE LOGIC	1
IC 39, 40, 44		C0EBE0000459	IC	3
IC 47	1	C0JBAA000380	IC	1
IC 51	1	C0CBCBC00181	IC	1
IC 56	+	C1CB00002723	CARDBUS CONTOLLER	1
	+			_
IC 73		C0JBAZ002422	IC, FET SWITCH	1
IC 76, 807, 809	1	C0DBALH00003	IC	3
IC 78	1	C1CB00002740	CHIPSET	1
IC 81		C0DBGYY00423	IC, LINEAR REGULATOR	1
IC 82		C1CB00002741	CHIPSET ICH8M	1
IC 85		C0DBGYY00422	IC, LINEAR REGULATOR	1
IC 88		C0DBZYY00265	POWER MANAGEMENT SWTICH	1
IC 89		C0DBZYY00017		1
			-	_
IC 90		C1CB00002733	AUDIO CODEC	1
IC 804		C0DBAYY00281	DC/DC CONTROLLER FOR CPU	1
IC 805		C0DBAYY00282	DC/DC CONTROLLER FOR GMCH	1
IC 808		C0DBEFH00002	IC, REGULATOR	1
IC 810		C0EBE0000333	IC	1
IC 811		C0JBAD000195	IC	1
IC 815		C0ABZA000047	IC, AMP	1
IC 817	-	C0ABBA000093	IC, OP AMP	1
				_
IC 818		C0DBDJH00009		1
JK 1, 2		K2HC1YYB0040	AUDIO JACK	2
3, 5, 7, 11, 22, 23, 35,		J0JJC0000021	INDUCTOR	15
[–] 36, 50, 51, 53, 54, 60,				
L 8, 9		J0MAB0000169	INDUCTOR	2
L 10, 30, 43		J0JDC0000105	CHIP BEADS	3
L 12, 20, 21, 34, 44, 45		J0MAB0000200	INDUCTOR	6
L 13, 14, 15, 16	1	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	4
L 24, 25	1	ERJ2GEJ510X	RESISTOR, 1/16W, 51Ω	2
L 37, 38, 39, 40, 41, 42	+	DDB5Z021D-Y	CHIP BEADS	6
	+			_
L 46		ERJ2GEJ470X	RESISTOR, 1/16W, 47Ω	1
L 47, 48		G1C1R0Z00002	INDUCTOR	2
L 52	1	ERJ6GEYJ101V	RESISTOR, 1/10W, 100Ω	1
L 57, 58		G1C1R0MA0076	INDUCTOR	2
L 59		G1C91NM00001	INDUCTOR	1
L 62	1	G1C100K00011	INDUCTOR	1
L 63	1	DDAZR100KTD	INDUCTOR	1
L 64, 69, 70, 71, 72, 73	1	J0JDC0000044	CHIP BEADS	6
	+			2
L 801, 802		G1AR56PA0001	INDUCTOR	-
L 803, 805, 807		G1C4R7MA0022	INDUCTOR	3
L 804	1	G1C2R8MA0022	INDUCTOR	1
L 806, 812		DDAZS100MT3T	INDUCTOR	2
L 808, 809		J0JKC0000007	INDUCTOR	2
				1
L 810		G1A160H00001	INDUCTOR	
L 810				
L 810 L 811	<u></u>	G1CR82M00006	COIL	1
L 810	;			

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838, 852, 870, 871, 873,	25
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Q 12, 94, 104, 844, 846, B1GBCFJN0037 TRANSISTOR	9
Q 12, 01, 104, 044, 040, B1GBCFJN0037 TRANSISTOR	9
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Q 81, 809, 815, 816, 819, B1CFGD000023 TRANSISTOR	16
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Q 27, 84 B1DHDC000028 TRANSISTOR	2
Q 28, 29, 30, 31, 32, 33, 34 XP0411500L TRANSISTOR	7
Q 69, 70, 100, 869, 874 B1GFCFNN0019 TRANSISTOR	5
Q 79, 829, 845, 847, 853 B1GDCFNN0031 TRANSISTOR	5
Q 801, 807 B1CFRD000009 TRANSISTOR	2
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Q 802, 805, 806, 808 B1CFRD000020 FET	4
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823, 841, 842, 894, 895	
Q 813, 821, 828, 893 B1MBFDG00001 FET	4
Q 849, 875, 876, 882 B1CHRD000001 TRANSISTOR	4
Q 850, 885 B1GFCFJN0016 TRANSISTOR	2
Q 863, 864 B1DHDD000031 TRANSISTOR, FET	2
Q 883 B1MBEDA00008 TRANSISTOR	1
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R 8, 9 ERJ2RKF27R4X RESISTOR, 1/16W, 27.4Ω	2
R 10, 11, 34, 35 ERJ2RKF54R9X RESISTOR, 1/16W, 54.9Ω	4
R 12, 26 ERJ2RKF2001X RESISTOR, 1/16W, 2KΩ	2
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R 21 ERJ2GEJ240X RESISTOR, 1/16W, 24Ω	1
R 25 ERJ2RKF68R0X RESISTOR, 1/16W, 68Ω	1
R 29 ERJ2RKF2210X RESISTOR, 1/16W, 221Ω	1
R 30, 55, 145, 162 ERJ2RKF24R9X RESISTOR, 1/16W, 24.9Ω	4
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R 111, 167, 228, 491	ERJ2GEJ203X	RESISTOR, 1/16W, 20KΩ	4
R 130	D1H82204A024	RESISTOR, 1/16W, 22Ω	1
R 131	ERJ2RKF22R6X	RESISTOR, 1/16W, 22.6Ω	1
R 133, 218, 343	ERJ2GEJ471X	RESISTOR, 1/16W, 470Ω	3
R 154	ERJ2GEJ121X	RESISTOR, 1/16W, 120Ω	1
R 158, 177	ERJ2RKF3241X	RESISTOR, 1/16W, 3240Ω	2
R 160	ERJ2GEJ106X	RESISTOR, 1/16W, 10MΩ	1
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R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 R 212, 304, 325, 361, 570, 883, 903, 922, 928, 997	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X D1H81004A024 D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2GEJ473X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 40.99KΩ RESISTOR, 1/16W, 100KΩ	8 5 4 2 2 1 6 8 1 4 1 1 10
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 R 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X D1H81004A024 D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RHD103X ERJ2RHD303X ERJ2GEJ473X D1H87504A024	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 4.99KΩ	8 5 4 2 2 1 6 8 1 4 1 10 10
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 206, 209, 282, 955 R 208 R 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X D1H81004A024 D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2GEJ473X D1H81044A024 ERJ2GEJ150X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 40.00 RESISTOR, 1/16W, 47KΩ RESISTOR ARRAY RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω	8 5 4 2 2 1 6 8 1 4 1 10 10 1 3 1
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 206, 209, 282, 955 R 208 R 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X D1H81004A024 D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2GEJ473X D1H81044A024 ERJ2GEJ150X ERJ2RKF3901X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 4.99KΩ RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 47KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 3.9KΩ	8 5 4 2 2 1 6 8 1 4 1 10 10 1 3 3
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275 R 270, 299, 350	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF4530X D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2RHD303X ERJ2GEJ473X D1H87504A024 D1H81044A024 ERJ2RKF3901X ERJ2RKF3901X ERJ2RKF3901X ERJ2GEJ273X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 30KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 3.9KΩ RESISTOR, 1/16W, 27KΩ	8 5 4 2 2 1 6 8 1 4 1 1 10 1 3 3 3
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 206, 209, 282, 955 R 206, 209, 282, 955 R 208 R 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X D1H81004A024 D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2GEJ473X D1H81044A024 ERJ2GEJ150X ERJ2RKF3901X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 4.99KΩ RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 47KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 3.9KΩ	8 5 4 2 2 1 6 8 1 4 1 10 10 1 3 3
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 178, 180, 181, 279, 287, 403 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275 R 270, 299, 350	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF4530X D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2RHD303X ERJ2GEJ473X D1H87504A024 D1H81044A024 ERJ2RKF3901X ERJ2RKF3901X ERJ2RKF3901X ERJ2GEJ273X	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 30KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 220Ω	8 5 4 2 2 1 6 8 1 4 1 1 10 1 3 3 3
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275 R 270, 299, 350 R 288, 311 R 289	ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF330X D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49R9X ERJ2RKF49P1X ERJ2RKF4991X ERJ2RKF4991X ERJ2RKF4991X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2RHD303X ERJ2GEJ473X D1H87504A024 D1H81044A024 ERJ2RKF3901X ERJ2RKF3901X ERJ2GEJ273X D1H82214A024 ERJ6GEY0R00V	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 30KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 220Ω RESISTOR, 1/10W, 0Ω	8 5 4 2 1 6 8 1 4 1 10 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1
R 168, 196, 888, 889, 890, 891, 893, 906 R 171, 331, 882, 926, 975 R 173, 220, 267, 286 R 174, 483 R 176, 458 R 176, 458 R 179, 180, 181, 279, 287, 403 R 179, 180, 181, 279, 287, 403 R 188, 189, 190, 191, 192, 193, 194, 195 R 203 R 206, 209, 282, 955 R 208 212, 304, 325, 361, 570, 883, 903, 922, 928, 997 R 213 R 239, 363, 455 R 248 R 255, 272, 275 R 270, 299, 350 R 288, 311	ERJ2GEJ105X ERJ2GEJ105X ERJ2GEJ474X D1H83304A024 ERJ2RKF3323X ERJ2RKF3323X ERJ2RKF4530X D1H81004A024 DEARA8AJ103M ERJ2RKF49R9X ERJ2RKF49R9X ERJ2RKF4991X ERJ2RKF4991X ERJ2RKF4991X ERJ2RHD103X ERJ2RHD303X ERJ2RHD303X ERJ2GEJ473X D1H87504A024 D1H81044A024 ERJ2RKF3901X ERJ2RKF3901X ERJ2GEJ273X D1H82214A024	RESISTOR, 1/16W, 470KΩ RESISTOR ARRAY RESISTOR, 1/16W, 332KΩ RESISTOR, 1/16W, 453Ω RESISTOR, 1/16W, 453Ω RESISTOR ARRAY RESISTOR ARRAY RESISTOR, 1/16W, 49.9Ω RESISTOR, 1/16W, 10KΩ RESISTOR, 1/16W, 30KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 15Ω RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 29KΩ RESISTOR, 1/16W, 220Ω	8 5 4 2 1 6 8 1 4 1 10 1 3 3 2 2 1 3 2 2 1 3 2

R 300, 302, 572	ERJ2RKF1502X	RESISTOR, 1/16W, 15KΩ	3
R 301, 303	ERJ2RKF2202X	RESISTOR, 1/16W, 22KΩ	2
R 306, 307	ERJ2RKF30R1X	RESISTOR, 1/16W, 30.1Ω	2
R 309, 467	ERJ2RKF2671X	RESISTOR, 1/16W, 2.67KΩ	2
R 336	D1H81014A024	RESISTOR ARRAY	1
R 344, 346, 352, 466	ERJ2GEJ181X	RESISTOR, 1/16W, 180Ω	4
R 370, 373, 379, 380, 524, 525	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KΩ	6
R 376, 856, 878	ERJ2RKF2002X	RESISTOR, 1/16W, 20KΩ	3
R 386, 400	ERJ2GEJ4R7X	RESISTOR, 1/16W, 4.7Ω	2
R 417	ERJ2GEJ334X	RESISTOR, 1/16W, 330KΩ	1
R 460	ERJ2RKF3920X	RESISTOR, 1/16W, 392Ω	1
R 470	ERJ2RKF3922X	RESISTOR, 1/16W, 39.2KΩ	1
R 496, 970, 973	ERJ2RHD3001X	RESISTOR, 1/16W, 3KΩ	3
R 529, 909, 989	ERJ2RKF1501X	RESISTOR, 1/16W, 1.5KΩ	3
R 531, 532, 533, 534	D1ZZ00000046	RESISTOR, 1W, 5mΩ	4
R 535	ERJ2RKF6811X	RESISTOR, 1/16W, 6.81KΩ	1 2
R 538, 550 R 542, 543, 564, 819, 842, R 542, 543, 564, 819, 842,	ERJ2RKF4022X	RESISTOR, 1/16W, 40.2KΩ	2
R 862, 887	ERJ3GEYJ100V	RESISTOR, 1/16W, 10Ω	7
R 546	ERJ2GEJ303X	RESISTOR, 1/16W, 30KΩ	1
R 549, 905, 907	ERJ3GEYJ2R2V	RESISTOR, 1/16W, 2.2Ω	3
R 551	ERJ3GEYJ104V	RESISTOR, 1/16W, 100KΩ	1
R 552	ERJ2RKF6801X	RESISTOR, 1/16W, 6.80KΩ	1
R 554	D1H8R0040009	JUMPER	1
R 555	ERJ2RKF1433X	RESISTOR, 1/16W, 143KΩ	1
R 560	ERJ2RKF1503X	RESISTOR, 1/16W, 150KΩ	1
R 561, 567	ERJ2RKF6981X	RESISTOR, 1/16W, 6.98KΩ	2
R 562 R 571	ERJ2RKF1691X ERJ2RKF7501X	RESISTOR, 1/16W, 1.69KΩ RESISTOR, 1/16W, 7.5KΩ	1
R 574, 839, 851, 867, 977	D1BDR033A099	RESISTOR, 1/3W, 0.033Ω	5
R 577, 578, 579, 580, 845,			-
864, 904	ERJ2GEJ223X	RESISTOR, 1/16W, 22KΩ	7
R 803, 811 R 828, 848, 866	D1JB1M00A001 ERJ2GEJ153X	RESISTOR, 1W, 1mΩ RESISTOR, 1/16W, 15KΩ	2
R 828, 848, 860 832, 833, 852, 857, 858, R 832, 833, 852, 857, 858,			
R 860, 869, 873, 875, 879	D1BDR022A099	RESISTOR, 1/3W, 0.022Ω	10
R 834	ERJ2RKF3161X	RESISTOR, 1/16W, 3.16KΩ	1
R 846, 874	ERJ2GEJ333X	RESISTOR, 1/16W, 33KΩ	2
R 853	ERJ2RKF1802X	RESISTOR, 1/16W, 18KΩ	1
R 854	ERJ2RKF1602X	RESISTOR, 1/16W, 16KΩ	1
R 855	ERJ2RKF2402X	RESISTOR, 1/16W, 24KΩ	1
R 861	ERJ2GEJ221X	RESISTOR, 1/16W, 220Ω	1
R 868	ERJ2RKF6201X	RESISTOR, 1/16W, 6.2KΩ	1
R 871	ERJ2RKF3002X	RESISTOR, 1/16W, 30KΩ	1
R 880 R 884	ERJ2RKF1003X ERJ2RKF1302X	RESISTOR, 1/16W, 100KΩ RESISTOR, 1/16W, 13KΩ	1
R 901, 902	ERJ6GEYJ222V	RESISTOR, 1/10W, 13KΩ RESISTOR, 1/10W, 2.2KΩ	1
R 908, 915	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	2
R 910, 988	ERJ2RKF10R0X	RESISTOR, 1/16W, 100Ω	2
R 911	ERJ2RKF3011X	RESISTOR, 1/16W, 3.01KΩ	1
R 913	ERJ2RKF1052X	RESISTOR, 1/16W, 10.5KΩ	1
R 914	D1ZZ00000093	RESISTOR, 1W, $1m\Omega$	1
R 919	D1BDR4700001	RESISTOR, 1/8W, 0.47Ω	1
R 921	ERJ2GEJ3R3X	RESISTOR, 1/16W, 3.3Ω	1
R 923, 946	ERJ2GEJ564X	RESISTOR, 1/16W, 560KΩ	2
R 952	ERJ2RHD153X	RESISTOR, 1/16W, 15KΩ	1
R 953	D1ZZ00000065	RESISTOR, 1W, 4mΩ	1
R 954, 956	ERJ2RHD104X	RESISTOR, 1/16W, 100KΩ	2
R 958, 959	ERJ2RKD154X	RESISTOR, 1/16W, 150KΩ	2
R 962, 963, 964, 978, 981, R 985	D1BDR1000002	RESISTOR, 1/8W, 0.1Ω	6
R 965	ERJ2GEJ154X	RESISTOR, 1/16W, 150KΩ	1
R 966	ERJ2RKF3652X	RESISTOR, 1/16W, 36.5KΩ	1
R 969	ERA3EEB1692V	RESISTOR, 1/16W, 16.9KΩ	1
R 971	ERJ2RKF1103X	RESISTOR, 1/16W, 110KΩ	1
R 982	ERJ2RKF1101X	RESISOTR, 1/16W, 1.1KΩ	1

P 984		RESISTOR 1/16W/ 162KO	4
R 984 R 991	ERA3EKB1623V ERJ2RKF1821X	RESISTOR, 1/16W, 162KΩ RESISTOR, 1/16W, 1.82KΩ	1
R 992	ERJ2RKF2000X	RESISTOR, 1/16W, 200Ω	1
R 993	ERJ2RKF2550X	RESISTOR, 1/16W, 255Ω	1
R 994	ERJ2RKF2151X	RESISTOR, 1/16W, 2.15KΩ	1
R 995	ERJ2RKF3093X	RESISTOR, 1/16W, 309KΩ	1
T 1, 2	G5BYC0000015	TRANCE	2
X 1	H0J143500058	OSCILLATOR, 14.318MHz	1
X 2	H0J327200115	OSCILLATOR, 32.768KHz	1
X 3	H0J250500076	XTAL	1
X 4	H2C800400005	CERAMIC RESONATOR	1
ZA 1, 2	DRHM0121ZA	SCREW	2
ZA 3, 4	K1YGZZ000060	SPACER	2
IO PCB			
C 1204, 1205, 1206, 1216	F1G1C104A042	CAPACITOR, 16V, 0.1µF	4
C 1207, 1210, 1214	F1G1H5R0A452	CAPACITOR, 50V, 5pF	3
C 1213, 1215	F1L1H220A066	CAPACITOR, 50V, 22pF	2
CN 1201	K1KA30AA0184	CONNECTOR	1
CN 1202	K1FY115A0001	CONNECTOR	1
CN 1203	K1FY109AA004	CONNECTOR	1
FL 1201, 1202, 1203 R 1204, 1205, 1206, 1207	ERJ3GEYJ100V ERJ3GEYJ270V	RESISTOR, 1/16W, 10Ω RESISTOR, 1/16W, 27Ω	3
R 1204, 1205, 1206, 1207 R 1206, 1207, 1208	ERJ3GEY0R00V	RESISTOR, $1/16W$, $2/\Omega$ RESISTOR, $1/16W$, 0Ω	3
R 1206, 1207, 1208 R 1204, 1205	D1H83304A024	RESISTOR ARRAY	2
LED PCB	DINOCOTACZT		
CN 1001	K1KY50AA0102	CONNECTOR	1
CN 1002, 1003	K1KA02BA0014	CONNECTOR	2
D 1001, 1002, 1003, 1006,			
D 1007	B3ABB0000210	DIODE	5
D 1004	B3AGB0000040	DIODE	1
SW 1001	EVQPLDA15	SWITCH	1
USB PCB			
C 1701	EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	1
CN 1701	K1KA06BA0014	CONNECTOR	1
CN 1702	K1FY104BA024	CONNECTOR, USB	1
D 1701	B0KB00000044	DIODE	1
L 1701	J0MAB0000200		1
L 1702, 1703 DC-IN PCB	J0JHC0000074	INDUCTOR	2
	E411414044740		4
C 1501	F1H1H104A748	CAPACITOR, 50V, 0.1µF CONNECTOR	1
CN 1501 JK 1501	K1KA06BA0128	JACK	1
TOUCH SCREEN PCB		JACK	1
C 1601, 1611, 1614, 1615,			
C 1616	F1G1C104A042	CAPACITOR, 16V, 0.1µF	5
C 1602, 1621, 1622	F1H1A1050015	CAPACITOR, 10V, 1µF	3
C 1603, 1604, 1605, 1606	F1G1E472A062	CAPACITOR, 25V, 4700pF	4
C 1607, 1608, 1609, 1610	F1G1H681A496	CAPACITOR, 50V, 680pF	4
C 1612	F1G1E223A062	CAPACITOR, 25V, 0.022µF	1
C 1613	F1G1H102A496	CAPACITOR, 50V, 1000pF	1
C 1617	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	1
C 1619	F1L1H220A066	CAPACITOR, 50V, 22pF	1
CN 1600	K1KA15B00072	CONNECTOR	1
CN 1601	K1MN04B00073		1
CN 1602	K1KA08BA0014		1
CN 1603	K1KA14BA0109		1
FL 1600, 1601 FL 1602	F1J0J4750019 F1H0J1050022	CAPACITOR, 6.3V, 4.7µF CAPACITOR, 6.3V, 1µF	2
IC 1600	C0JBAR000500	IC, SWITCH	1
IC 1600	C0EBE0000460		1
IC 1601	C0JBAZ002422	IC, FET SWITCH	1
IC 1602	C1CB00002515	IC, TOUCHPANEL CONTROLLER	1
IC 1604	C0CBCBC00181		1
L 1600	J0MAB0000200	INDUCTOR	1
Q 1600, 1601	B1MBADA00003	TRANSISTOR	2
Q 1602	B1GDCFNN0031	TRANSISTOR	1
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Q 1603	B1GBCFJN0037	TRANSISTOR	1
R 1601	ERJ2GEJ273X	RESISTOR, 1/16W, 27KΩ	1
1602, 1603, 1604, 1605,			
R 1614, 1616, 1619, 1621,	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	11
1622, 1623, 1624			
R 1606, 1607, 1608, 1609	ERJ2GEJ822X	RESISTOR, 1/16W, 8.2KΩ	4
R 1610	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	1
R 1611, 1617	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	2
R 1620, 1629	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	2
R 1625	DEARA8AJ473M	RESISTOR ARRAY	1
R 1626, 1627	ERJ2GEJ270X	RESISTOR, 1/16W, 27Ω	2
R 1628	ERJ2GEJ152X	RESISTOR, 1/16W, 1.5KΩ	1
X 1600	H2D600400005	OSCILLATOR, 6MHz	1
SD PCB	•	•	•
C 1401	F1H1A1050015	CAPACITOR, 10V, 1µF	1
C 1402	F1G1C104A042	CAPACITOR, 16V, 0.1µF	1
CN 1401	K1MN20BA0134	CONNECTOR	1
CN 1401	K1NA09E00073	CONNECTOR	1
D 1401	B3ACB0000020	DIODE	1
Q 1401	B1GDCFJA0025	TRANSISTOR	1
Q 1402	B1GBCFJN0037	TRANSISTOR	1
R 1401	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	1
R 1402	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	1
PAD/SWITCH PCB			
C 1301	F1G1E103A062	CAPACITOR, 25V, 0.01µF	1
C 1302	F1H0J1050022	CAPACITOR, 6.3V, 1µF	1
CN 1301	K1MN12BA0070	CONNECTOR	1
CN 1302	K1MY12BA0105	CONNECTOR	1
R 1301	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	1
SW 1301	K0D112B00071	SW	1
SW 1302	K0ZZ00000618	SW	1
SW 1303, 1304	EVQPLDA15	SWITCH	2
BLUETOOTH PCB	•	•	•
C 1	F1J0J1060004	CAPACITOR, 6.3V, 10µF	1
C 2, 7	F1G1C104A042	CAPACITOR, 16V, 0.1µF	2
C 3, 5	F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 6	F1G1E103A062	CAPACITOR, 25V, 0.01µF	1
C 8	F1G1H270A542	CAPACITOR, 50V, 27pF	1
CN 1	K1MY10BA0105	CONNECTOR	1
IC 1	C0JBAZ002422	IC, FET SWITCH	1
IC 2	N5HZZ0000040	BLUETOOTH MODULE	1
IC 3	C0EBE0000460		1
JK 1	K1QZA1AE0001	CONNECTOR	1
L 1	J0JHC0000074	INDUCTOR	1
L 2	J0JJC0000021	INDUCTOR	1
L 4	G1C3N3ZA0029	INDUCTOR	1
L 4	J0MAB0000200	INDUCTOR	1
			1
Q 1	B1GBCFJN0037	TRANSISTOR	
Q 2	B1DHDC000028	TRANSISTOR	1
R 1	ERJ2GEJ474X	RESISTOR, 1/16W, 470KΩ	1
R 2	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	1