Service Manual

Simplified

Notebook Computer

Model No. CF-30FTSAZAM



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

⚠ 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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WARNING

For U.K.

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 \diamondsuit or the BSI mark \heartsuit 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 (a) 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 screw-driver 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-conduciveparts 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.

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. 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

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 personel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

LITHIUM BATTERY A-

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

LITHIUMBATTERIES A

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 \land –

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.

Precautions (Battery Pack)

Do Not Use with Any Other Product

The battery pack is rechargeable and was intended for the specified product. If it is used with a product other than the one for which it was designed, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Charge the Battery Using Methods Other Than Those Specified

If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Throw the Battery Pack into a Fire or Expose It to Excessive Heat

Generation of heat, ignition or rupture may result.

Avoid Extreme Heat (Near the Fire, in Direct Sunlight, for Example)

Electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Insert Sharp Objects into the Battery Pack, Expose It to Bumps or Shocks, Disassemble, or Modify It

Electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Short the Positive (+) and Negative (-) Contacts

Generation of heat, ignition or rupture may result. Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.

Do Not Use This Product with a Battery Pack Other Than the One Specified

Use only the specified battery pack with your product. Use of battery packs other than those manufactured and supplied by Panasonic may present a safety hazard (generation of heat, ignition or rupture).



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.

- 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% (when Economy Mode (ECO) is enabled: 75%) 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 if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 55 °C {32 °F to 131
 - °F)). (→ ☐ Reference Manual "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 below.)
- 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 by using a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery 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-30FTSAZAM/CF-30F3SAZAM. 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 (→ Parameter Properties of the Setup Utility) and select [Information] menu.
 [CPU Speed]: CPU speed, [System Memory]: Memory size, [Hard Disk]: Hard disk drive size

■ Main Specifications

Model No.		CF-30FTSAZAM	CF-30F3SAZAM	
CPU		Intel® Core™ 2 Duo Processor L7500 (1.6 GHz, 4 MB ^{*1} L2 cache, 800 MHz FSB)		
Chipset		Intel® GM965		
Memory*2*4		1 GB (4 GB Max.)		
Video Memor	y*1*3	UMA (384 MB Max.)		
Hard Disk Dri	ve ^{*4}	80 GB		
Display Metho	od	13.3 XGA type (TFT) with Touchscreen	13.3 XGA type (TFT)	
Internal LCD)* ⁵	65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots)		
External Dis	play ^{*6}	65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots/ 1440 × 900 dots)		
Wireless LAN	*7	→ Next page		
Bluetooth™*8		→ Next page		
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		WAVE and MIDI playback, Intel® High Definition	Audio subsystem support, Monaural speaker	
Security Chip		TPM (TCG V1.2 compliant)*9		
Card Slot	PC Card	Type I or Type II x 1 (3.3 V: 400 mA, 5 V: 400 m	nA)	
	ExpressCard	ExpressCard/34 ¹⁰ or ExpressCard/54 x 1		
	SD Memory Card ^{*11}	x 1, Data transfer rate = 8 MB per second* ¹²		
	Smart Card ^{*13}	ISO7816 x 1		
RAM Module	Slot	200-pin, 1.8 V, SO-DIMM, DDR2 SDRAM, PC2-4200 Compliant		
Interface		USB port (4-pin, USB 2.0) x 3, 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 80-pin female), External Antenna Connector (Dedicated 50 Ω coaxial connector), IEEE 1394a Interface Connector (4-pin x 1), Microphone Jack (Miniature jack, 3.5 DIA, Stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω , Output Power 4 mW x 2)		
Keyboard / Po	ointing Device	87 keys / Touch Pad / Touchscreen (Anti- Reflection, Stylus (included) touch capable)	87 keys / Touch Pad	
Power Supply	/	AC adaptor or Battery pack		
AC Adaptor*14		Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 5.0 A		
Battery Pack		Li-ion 10.65 V, 8.55 Ah		
Operating Ti	ime ^{*15}	Main Battery: Approx. 7 hours ¹⁶ Main Battery + Second Battery: Approx. 10.5 hours ¹⁶		
Charging Time*15	Power on	Main Battery: Approx. 8.5 hours Main Battery + Second Battery: Approx. 12.5 hours		
	Power off	Main Battery: Approx. 5 hours Main Battery + Second Battery: Approx. 8 hours		
Clock Battery		Coin type lithium battery 3.0 V		
Power Consumption*17		Approx. 50 W ^{*18} / Approx. 70 W (Maximum when recharging in the ON state)		
Physical Dimensions (W x H x D)		302 mm × 67.5 - 69.5 mm × 292 mm {11.9" × 2.7 - 2.8" × 11.5"}		
Weight		Approx. 3.8 kg (Approx. 8.4 lb.), excluding the dummy pack and dummy cards (approx. 50 g (approx. 1.8 oz.))		
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)		

■ Main Specifications

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, Intel® Matrix Storage Manager, Intel® PROSet/Wireless Software 7, Bluetooth™ Stack for Windows® by TOSHIBA®, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Infineon TPM Professional Package 19, Recover Pro™ 6 19 or Recover Pro™ VX 19, Power Saving Utility, Wireless Connection Disable Utility
	Setup Utility, Hard Disk Data Erase Utility *20, PC-Diagnostic Utility

■ Wireless LAN <Only for model with wireless LAN>

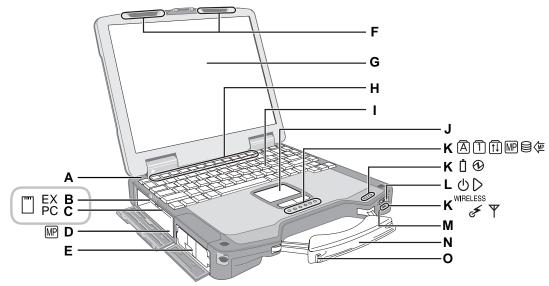
Intel Wireless WiFi Link 4965AG (802.11 a + b + g) ²¹			
Data Transfer Rates ²²	IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched) IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched) IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)		
Standards Supported	IEEE802.11a/IEEE802.11b/IEEE802.11g		
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
- You can physically expand the memory upto 4 GB, but the total amount of usable memory available will be less depending on the actual system configuration.
- 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.
- ¹⁴ 1GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- ⁵ A 16,777,216 color display is achieved by using the dithering function.
- ^{*6} Maximum resolution depends on the specifications of the external display.
- ^{*7} Only for model with wireless LAN
- *8 Only for model with Bluetooth
- ^{*9} 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)".
- When using ExpressCard/34, the card slot cover cannot be closed.
- SD Memory Cards that support high-speed transfer rates can be used. Windows Ready Boost function is also supported. Operation has been tested and confirmed using Panasonic SD Memory Cards and SDHC Memory Cards with a capacity of up to 8 GB. Operation on other SD equipment is not guaranteed.
 - This computer is not compatible with MultiMediaCards. Do not insert this kind of cards.
- 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.
- *13 Only for model with Smart Card slot
- *14 <Only for North America>
 - The ÅC 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
- ¹⁵ Varies depending on the usage conditions.
- *16 Measured using MobileMarkTM 2005 (LCD brightness: 60 cd/m²)
- ¹⁷ Approx. 0.9 W when the battery pack is fully charged (or not being changed) and the computer is OFF.
- ¹⁸ Rated power consumption 23-E-1
- You need to install to use the feature.
- *20 The Product Recovery DVD-ROM is required.
- 11 It does not correspond to IEEE802.11.n.
- These are speeds specified in IEEE802.11a+b+g standards. Actual speeds may differ.

2. Names and Functions of Parts



A: Bluetooth Antenna

<Only for model with Bluetooth>

→ Paragraph → Reference Manual "Bluetooth"

B: ExpressCard Slot

→ PReference Manual "PC Card / ExpressCard"

C: PC Card Slot

→ PReference Manual "PC Card / ExpressCard"

D: Multimedia Pocket

→ PReference Manual "Multimedia Pocket"

E: Battery Pack

F: Wireless LAN Antenna

<Only for model with wireless LAN>

→ The Reference Manual "Wireless LAN"

G: LCD

<Only for model with touchscreen>

Reference Manual "Touchscreen"

H: Function Key

→ PReference Manual "Key Combinations"

I: Keyboard

J: Touch Pad

K: LED Indicator

A: Caps lock

1 : Numeric key (NumLk)

1 : Scroll lock (ScrLk)

Multimedia pocket device status or the second battery status

→ ∰ Reference Manual "Multimedia Pocket" "Battery Power"

: Hard disk drive status

: Power status of the multimedia pocket

🗓: Battery status

→ Characteristics → Reference Manual "Battery Power"

Power status

(Off: Power off/Hibernation, Green: Power on, Blinking green: Standby)

WIRELESS : Wireless ready 1

This indicator lights when Wireless LAN, Bluetooth, and/or Wireless WAN are connected and ready. It does not necessarily indicate the On/Off condition of the wireless connection.

→ ₩ Reference Manual "Wireless LAN" "Bluetooth" "Disabling / Enabling Wireless Communication"

平: Wireless WAN status

<Only for model with wireless WAN>

→ Refer to the instruction manual of the wireless device

L: Power Switch

M: Wireless Switch*1

→ ₩ Reference Manual "Disabling / Enabling Wireless Communication"

N: Carrying Handle

O: Stylus Holder

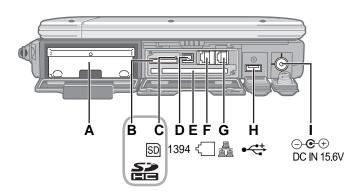
Only for model without both wireless LAN and Bluetooth-Both Wireless Switch and Wireless ready indicator are equipped with models without Wireless device as well. Wireless ready indicator lights up when Wireless Switch is turned on, or [Wireless Switch] is set to [Disable] ([Enable] in the default setting) on Setup Utility [Advanced] menu, but Wireless function does not work. (Do not change [Wireless Switch] setting.)



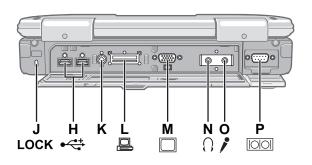
A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

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.

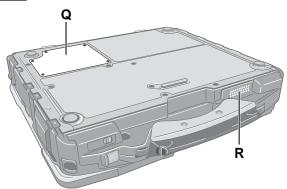
Right side



Rear side



Bottom



A: Hard Disk Drive

→ PReference Manual "Hard Disk Drive"

B: SD Memory Card Slot

→ PReference Manual "SD Memory Card"

C: SD Memory Card Indicator

(Blinking: During access)

→ Characteristic → Reference Manual "SD Memory Card"

D: IEEE 1394 Interface Connector

→ W Reference Manual "IEEE 1394 Devices"

E: Smart Card Slot

<Only for model with Smart Card slot>

→ ♥ Reference Manual "Smart Card"

F: Modem Port

Reference Manual "Modem"

G: LAN Port

→ \$\frac{\pi}{2}\$ Reference Manual "LAN"

H: USB Port

Reference Manual "USB Devices"

I: DC-IN Jack

J: Security Lock

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

K: Ext Antenna Connector

L: Expansion Bus Connector

→ Preference Manual "Port Replicator"

M: External Display Port

→

Reference Manual "External Display"

N: Headphone Jack

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

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: Serial Port

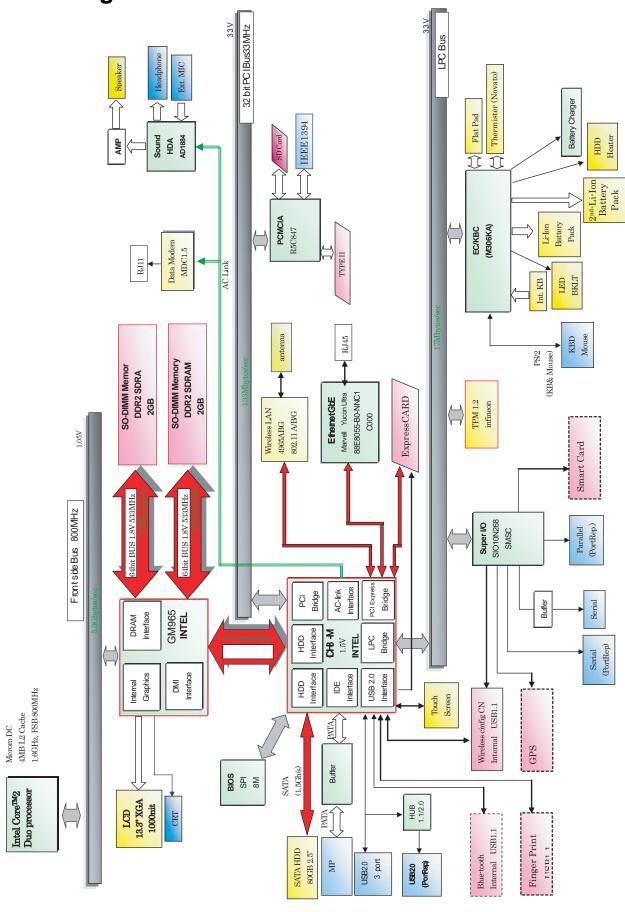
Q: RAM Module Slot

→ ₩ Reference Manual "RAM Module"

R: Speaker

→ PReference Manual "Key Combinations"

3 Block Diagram

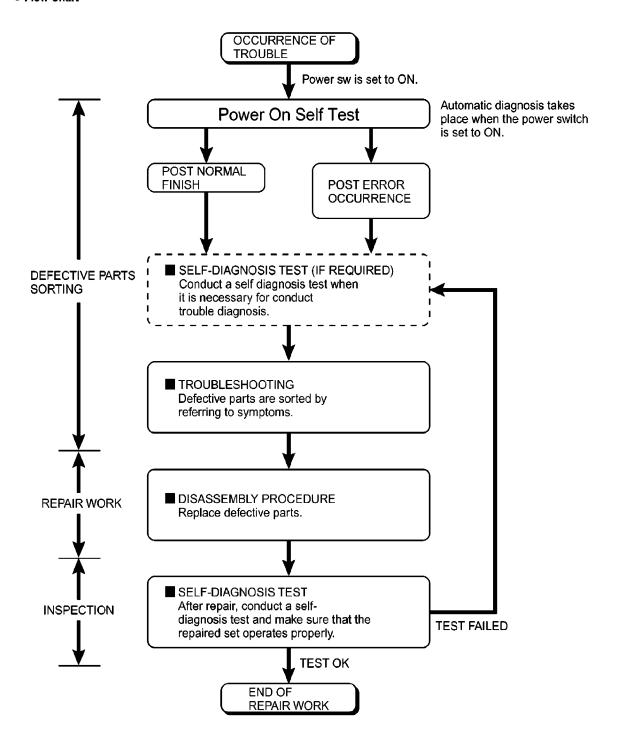


4 Diagnosis Procedure

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.

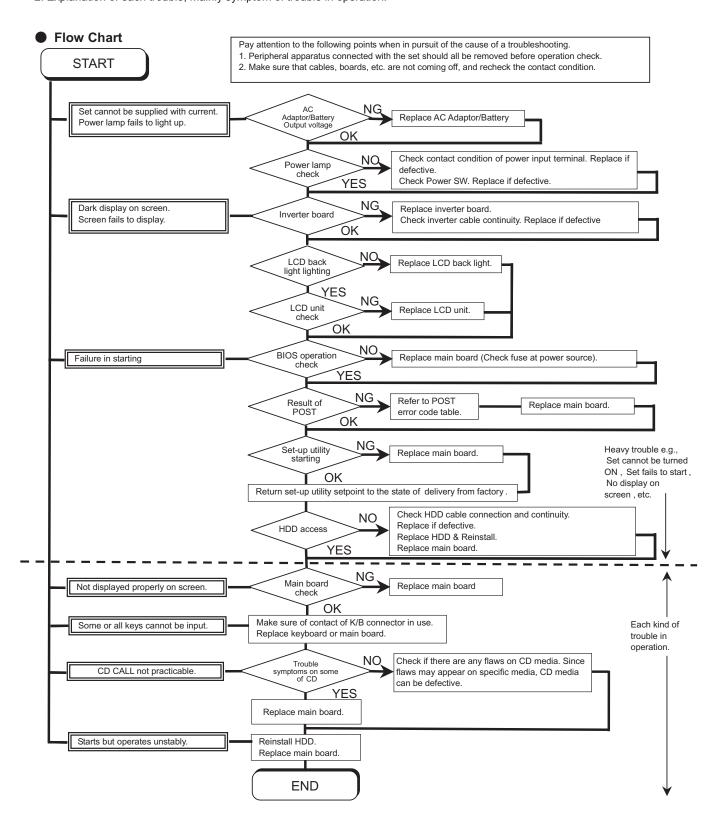
Flow Chart



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 <F1> to start the boot process or <F2> 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

- 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).
- 5. 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.



Start the standard test



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

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

When \boxtimes 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.

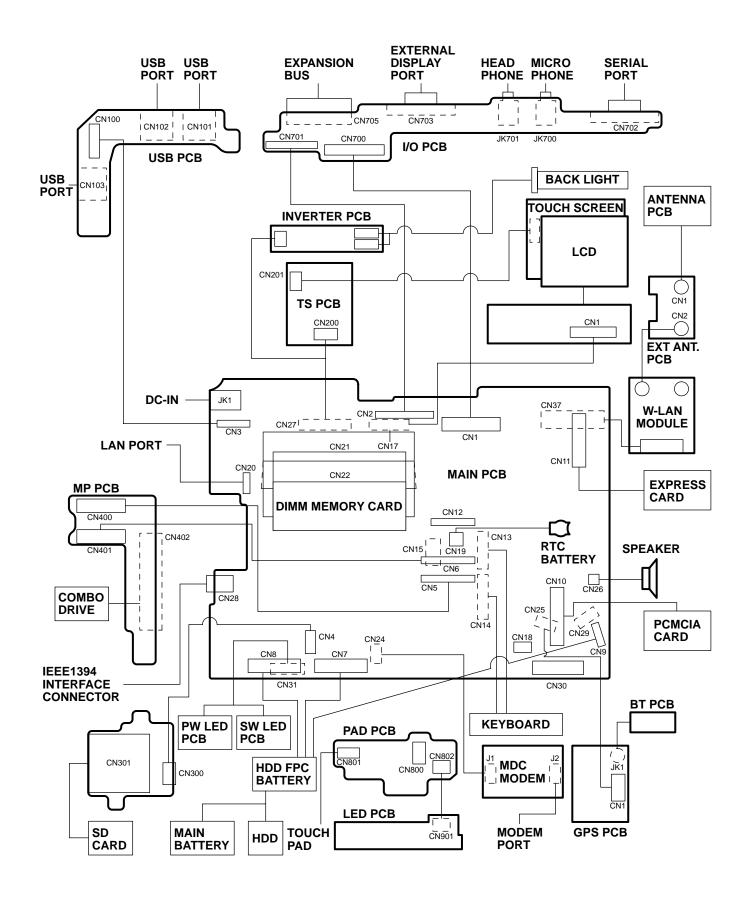
3. Test Item and Division of trouble

Test item	Stanard	Enhan- cing	Content of standard test	Content of enhancing test	Place with possibility of breakdown
CPU / SYSTEM	0	_	CPU is shifted to protected mode, and "Violation of the paging", "Operation of the violation of a privileged instruction", and DMA, INT, TIMER, and the RTC operation are confirmed.	_	CPU / Main board
RAM	0	_	All memory space is tested in a special memory access pattern based on "R.S.T. technology".		Memory / Mainboard
HDD	0	0	The record area frequently accessed with Microsoft Windows XP to test in about two minutes regardless of points of HDD is emphatically tested.	All record area is tested.	HDD / Mainboard / Cable / Connector
MODEM	0		It is confirmed not to find abnormality in the AC97 modem controller.	_	MODEM/ Mainboard
Wireless LAN	0	_	It is confirmed not to find abnormality in the Wireless LAN modem controller.	_	Wireless LAN board / Connector / Mainboard
Sound *5	0	_			
USB	0	o*1	It is confirmed not to find abnormality in the USB controller.	It is confirmed not to find ab- normalityin the wiring between the USB controller and the connector by confirming the connection of the USB equipment connected with the USB connector.	Mainboard / Connector
LAN	0	o*2	It is confirmed not to find abnormality in the LAN controller.	It is confirmed not to find ab- normalityin the wiring between the controller and the connector by connecting to HUB with LAN cable.	Mainboard / Connector
PC Card	0	_	It is confirmed not to find abnormality in the CardBus controller.	_	Mainboard
SD	0		It is confirmed not to find abnormality in the SD controller.	_	Mainboard
Keyboard	0	O ^{*3}	It is confirmed not to find abnormality in keyboard controller's keyboard interface.	The key is actually input, and the operation is displayed on the screen.	Mainboard / Keyboard
Touch Pad	0	O ^{*4}	Whether keyboard controller's mouse interface operates normally is confirmed.	The operation is actually displayed on the screen by operating the touch pad.	Mainboard / Touch Pad
DVD-ROM	0	O ^{*6}	The drive is normally reset, and it is accessible is confirmed.	It is confirmed to be able to read media normally.	Mainboard / DVD Drive / DVD Cable / DVD Connector

Test Item	Standard	Enhanced	Content of Standard Test	Content of Extend Test	The place with possibility of breakdown
Touch Screen	0	0	It is confirmed not to find abnormality in the USB connection of Touch Screen. This test cannot find abnormality of Touch Screen.	Perform Touch Screen functionality practically. Operator has to judge PASS/FAIL with test result.	Main board/ Touch Screen
Bluetooth	0		It is confirmed not to find abnormality in the connection of Main board and Bluetooth module.	_	Bluetooth cable
Wireless WAN	0	_	It is confirmed not to find abnormality in the connection of Main board and Wireless WAN module.	_	WWAN cable
Floppy	0	_	It is confirmed not to find abnormality in the legacy FD drive. This test cannot find abnormality of mechanical breakdown. (e.g., Head, Motor)	_	FD Drive/ Main board (Super I/O)/ FDD cable FDD connector
Video	0		It is confirmed not to find abnormality in access to VRAM with VESA. The PC which uses main memory as VRAM may fail with main memory failure.		Main board (Chipset, Graphic Controller)/ Memory
GPS	0	_	It is confirmed not to find abnormality in the connection of Main board and GPS	_	GPS cable
IEEE1394	0		It is confirmed not to find abnormality in the IEEE1394 controller.	_	Main board (IEE⊯394 Controller)
Express Card	_		_	It is confirmed not to find abnormality in the wiring between Chipset and Express Card.	Main board (Chipset)/ Express Card Connector
Smart Card	0		It is confirmed not to find abnormality in the Smart Card controller.	_	Main board (Smart Card Controller)
Serial Port	0	O *7	It is confirmed not to find abnormality of Super I/O UART function. This test cannot find lack of wiring between Super I/O and Serial Connector.	It is confirmed not to find abnormality in the wiring between Super I/O and Serial Connector. This test cannot find failure of cable characteristic and device problems.	Main board (Super I/O)/ Serial Connector
Parallel Port	0	<u>*8</u>	It is confirmed not to find abnormality of Super I/O parallel function. This test cannot find lack of wiring between Super I/O and Parallel Connector.	It is confirmed not to find abnormality in the wiring between Super I/O and Parallel Connector. This test cannot find failure of cable characteristic and device problems.	Main board (Super I/O)/ Parallel Connector

- *1 Please connect the USB device with the port (USB connector) which wants to test before the tests.
- *2 Please connect LAN port with LAN HUB with LAN cable before the tests.
- *3 The operator actually inputs the key, and the operator judges PASS/FAIL of the test.
- *4 The operator actually operates the mouse, and the operator judges PASS/FAIL of the test.
- *5 It is not abnormal though the sound is emitted from the speaker while testing.
 - When the test result is PASS, trouble is thought by not hearing of the sound under the test from the speaker and the headphone by the wiring of the audio output system.
- *6 Please set DVD/CD media in the drive before the tests.
- *7 Please set a Special Loop Back Connector Tool at serial connector for Enhanced Test. (This Connector Tool is same as the one used before.)
- *8 Please set a Special Loop Back Connector Tool at parallel connector for Enhanced Test. (This Connector Tools is same as the one used before.)

Wiring Connection Diagram



7 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.

7.1. Disassembly Instructions

7.1.1. Preparation

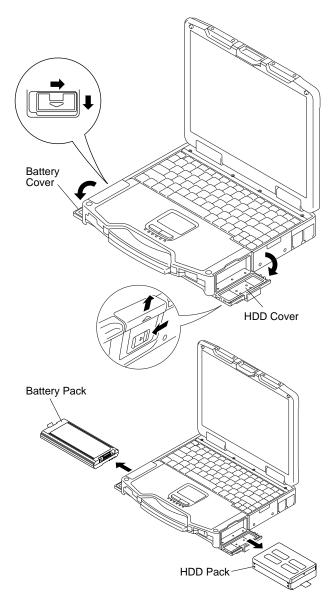
Before disassembling, be sure to make the following preparations.

- 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:

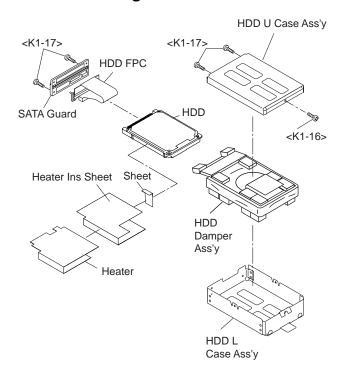
- Please execute writing BIOS ID when you exchange the Main Board.
- Parts (Sheet and rubber) etc. related various the Conductive Cloth and Heat Spreader cannot be recycled. Use new parts.

7.1.2. Removing the Battery Pack and HDD Pack



- 1. Open the Battery Cover.
- 2. Remove the Battery Pack.
- 3. Open the HDD Cover.
- 4. Remove the HDD Pack.

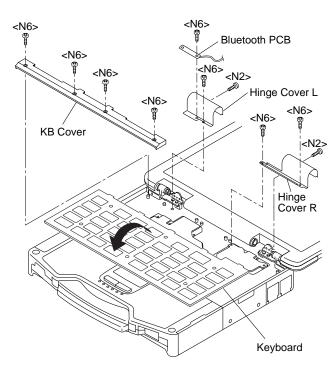
7.1.3. Removing the HDD



- 1. Remove the Screw. <K1-16>
- 2. Remove the 4 Screws. <K1-17> And remove the SATA Guard.
- 3. Release the 2 Tabs, and remove the HDD U Case Ass'y and the HDD L Case Ass'y.
- 4. Remove the HDD Dumper Ass'y.
- 5. Remove the Sheet.
- 6. Remove the Heater and the Heater Ins Sheet.
- 7. Remove the HDD FPC.

Screws <K1-16>: DFHE5025XA Screws <K1-17>: DRQT2+E8FKL

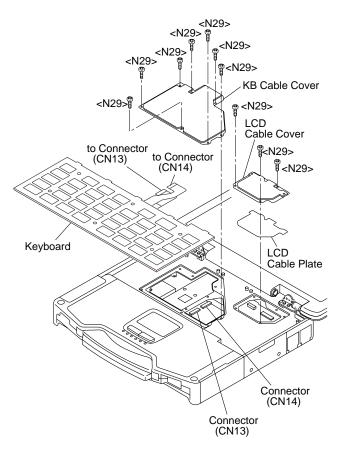
7.1.4. Removing the KB Cover, Hinge Cover L, Hinge Cover R and Keyboard



- 1. Remove the 4 Screws <N6>, and remove the KB Cover.
- 2. Remove the 2 Screws <N2> and the 3 Screws <N6>, and remove the Hinge Cover L,R.
- 3. Remove the Keyboard.

Screws <N2>: DRHM5054XA Screws <N6>: DRQT26+E4FKL

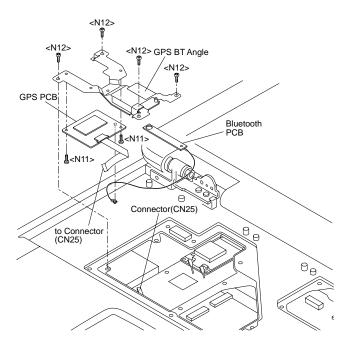
7.1.5. Removing the KB Cable Cover and LCD Cable Cover



- 1. Remove the 3 Screws <N29>.
- 2. Remove the LCD Cable Cover.
- 3. Remove the LCD Cable Plate.
- 4. Remove the 7 Screws <N29>.
- 5. Remove the KB Cable Cover.
- 6. Disconnect the 2 Cable from the 2 Connectors (CN13, CN14).
- 7. Remove the Keyboard.

Screws <N29>: DRQT26+E3FNL

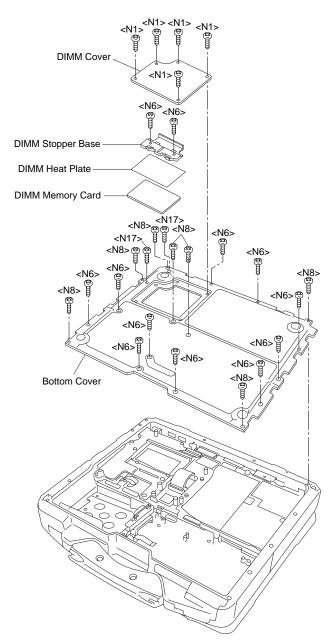
7.1.6. Removing the GPS PCB and Bluetooth PCB



- 1. Disconnect the Cable from the Connector. (CN25)
- 2. Remove the 4 Screws, <N12>
- 3. Remove the 2 Screws. <N11>
- 4. Remove the Bluetooth PCB, GPS BT Angle and GPS PCB.

Screws <N11>: DFHE5025XA Screws <N12>: DXQT2+F3FNL

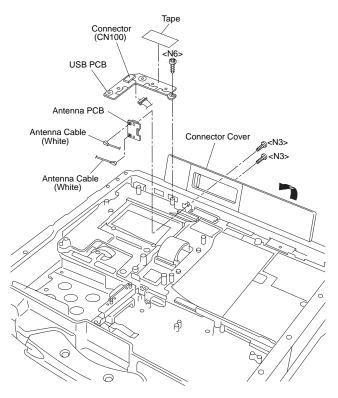
7.1.7. Removing the DIMM Cover and Bottom Cover



- 1. Remove the 5 Screws. <N1>
- 2. Remove the DIMM Cover.
- 3. Remove the 2 Screws. <N6>
- 4. Remove the DIMM Stopper Base.
- 5. Remove the DIMM Heat Plate.
- 6. Remove the DIMM memory card.
- 7. Remove the 6 Screws. <N8>
- 8. Remove the 11 Screws. <N6>
- 9. Remove the 2 Screws. <N17>
- 10. Remove the Bottom Cover.

Screws <N1>: DRHM0002ZA Screws <N6>: DRQT26+E4FKL Screws <N8>: DRSB3+8FKL Screws <N17>: DRQT26+E6FKL

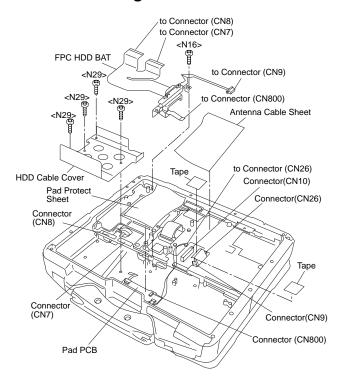
7.1.8. Removing the USB PCB and Antenna PCB



- 1. Remove the Screw. <N6>
- 2. Disconnect the Cable from the Connector. (CN100)
- 3. Remove the Tape.
- 4. Remove the USB PCB.
- 5. Open the Connector Cover.
- 6. Remove the 2 Screws. <N3>
- 7. Remove the 2 white Cables and remove the Antenna PCB.

Screws <N3>: DRQT2+G6FKL Screws <N6>: DRQT26+E4FKL

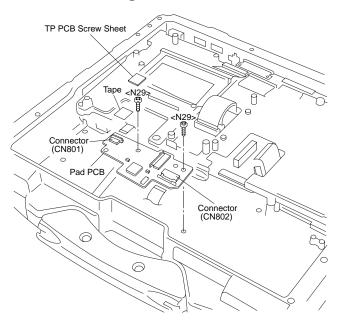
7.1.9. Removing the FPC HDD BAT



- 1. Remove the 4 Screws. <N29>
- 2. Remove the HDD Cable Cover.
- 3. Remove the Antenna Cable Sheet.
- 4. Remove the 2 Tapes.
- 5. Disconnect the 2 Cables from the 2 Connectors. (CN10,CN26)
- 6. Remove the Tape.
- 7. Disconnect the Cable from the Connector. (CN9)
- 8. Remove the Pad Protect Sheet.
- 9. Disconnect the Cable from the Connector. (CN800)
- 10. Disconnect the 2 Cables from the 2 Connectors. (CN7,CN8)
- 11. Remove the Screw. <N16>
- 12. Remove the FPC HDD BATT.

Screws <N16>: DRQT26+E5FKL Screws <N29>: DRQT26+E3FNL

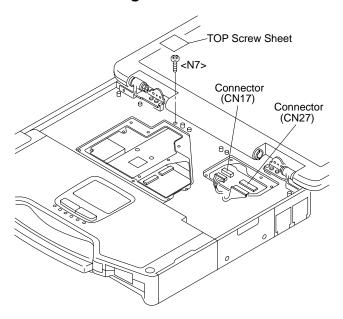
7.1.10. Removing the PAD PCB



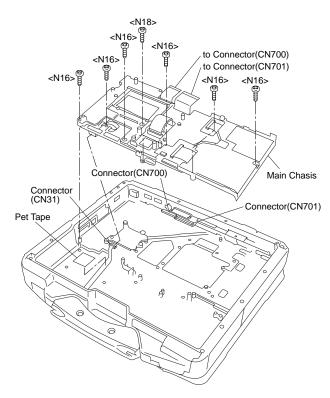
- 1. Remove the Tape and disconnect the Cable from the Connector. (CN801)
- 2. Disconnect the Cable from the Connector. (CN802)
- 3. Remove the TP PCB Screw Sheet.
- 4. Remove the 2 Screws. <N29>
- 5. Remove the PAD PCB.

Screws <N29>: DRQT26+E3FNL

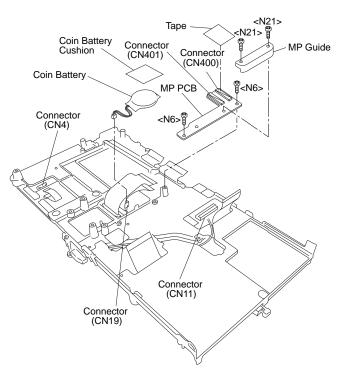
7.1.11. Removing the Main PCB



- 1. Remove the TOP Screw Sheet.
- 2. Remove the Screw. <N7>
- 3. Disconnect the 2 Cables from the 2 Connectors. (CN17,CN27)



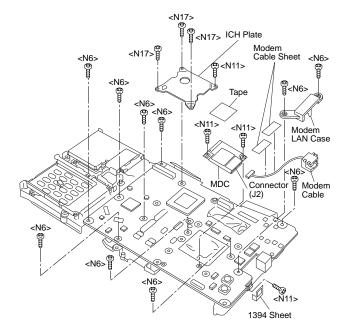
- 4. Remove the 6 Screws. <N16>
- 5. Remove the Screw. <N18>
- Disconnect the 2 Cables from the 2 Connectors. (CN700,CN701)
- 7. Remove the Pet Tape and disconnect the Cable from the Connector. (CN31)
- 8. Remove the Main chasis.



- 9. Remove the Tape.
- 10. Disconnect the 2 Cables from the 2 Connectors.

(CN400,CN401)

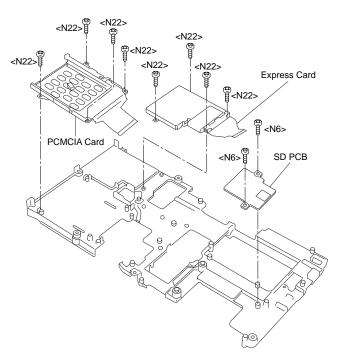
- 11. Remove the 2 Screws. <N6>
- 12. Remove the 2 Screws. <N21>
- 13. Remove the MP Guide.
- 14. Remove the MP PCB.
- 15. Remove the Coin Battery Cushion.
- 16. Disconnect the Cable from the Connector. (CN19)
- 17. Remove the Coin Battery.
- 18. Remove the Tape.
- Disconnect the 2 Cables from the 2 Connectors. (CN4,CN11)



- 20. Remove the 3 Screws <N17> and the Screw. <N11>
- 21. Remove the ICH Plate.
- 22. Remove the 2 Modem Cable Sheets.
- 23. Remove the 2 Screws. <N6>
- 24. Remove the Modem LAN Case.
- 25. Remove the 1394 Sheet.
- 26. Remove the 2 Screws. <N11>
- 27. Remove the Tape.
- 28. Disconnect the Cable from the Connector (J2) and remove the MDC.
- 29. Remove the Modem Cable.
- 30. Remove the 8 Screws. <N6>
- 31. Remove the Screw. <N11>
- 32. Remove the Main PCB.

Screws <N6>: DRQT26+E4FKL Screws <N7>: DRSB26+10HKL Screws <N11>: DFHE5025XA Screws <N16>: DRQT26+E5FKL Screws <N17>: DRQT26+E6FKL Screws <N18>: DRSB26+8FKL Screws <N21>: DXQT2+E12FNL

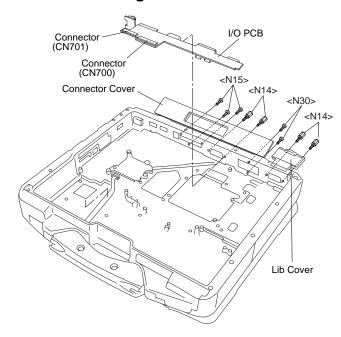
7.1.12. Removing the SD PCB, Express Card and PCMCIA Card



- 1. Remove the 2 Screws. <N6>
- 2. Remove the SD PCB.
- 3. Remove the 4 Screws. <N22>
- 4. Remove the Express Card.
- 5. Remove the 4 Screws. <N22>
- 6. Remove the PCMCIA Card.

Screws <N6>: DRQT26+E4FKL Screws <N22>: DXQT2+G4FNL

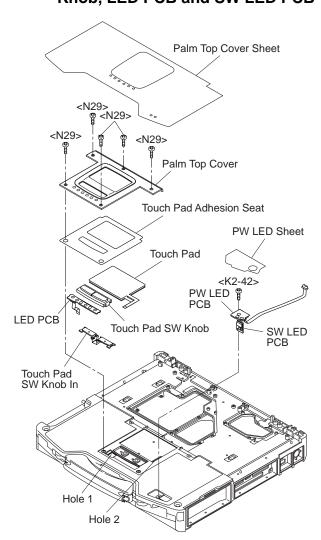
7.1.13. Removing the I/O PCB



- 1. Open the Connector Cover and Lid Cover.
- 2. Remove the 3 Screws <N14> and the 2 Screws <N30>.
- 3. Remove the 4 Screws. <N15>
- 4. Remove the I/O PCB.

Screws <N14>: DFHE5058ZB Screws <N15>: DRHM5104ZA Screws <N30>: DXHM0057ZA

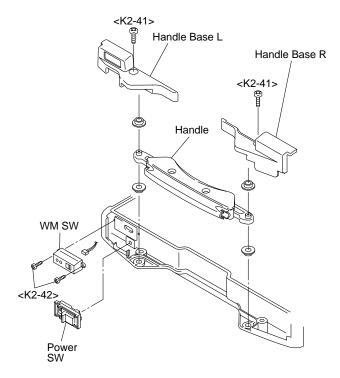
7.1.14. Removing the Palm Top Cover Sheet, Palm Top Cover, Touch Pad Adhesion Seat, Touch Pad, Touch Pad SW Knob, LED PCB and SW LED PCB



- 1. Remove the Palm Top Cover sheet.
- Remove the 5 Screws <N29>, and remove the Palm Top Cover.
- 3. Remove the Touch Pad Adhesion seat.
- 4. Remove the Touch Pad.
- 5. Remove the Touch Pad SW knob and Touch Pad SW Knob in.
- 6. Remove the LED PCB.
- 7. Remove the PW LED Sheet.
- Remove the Screw <K2-42>, and remove the SW LCD PCB.

Screws <N29>: DRQT26+E3FNL Screws <K2-42>: DXQT26+D4NLT

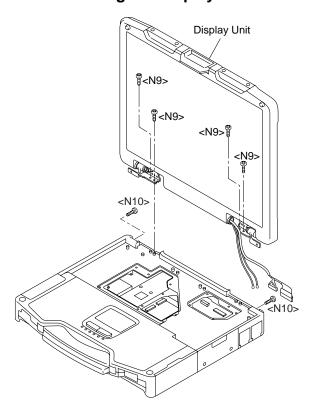
7.1.15. Removing the Handle and Power SW



- 1. Remove the 2 Screws <K2-41>, and remove the Handle Base L and R.
- 2. Remove the Handle.
- 3. Remove the 2 Screws. <K2-42>
- 4. Remove the WM SW and Power SW.

Screws <K2-41>: DRSN4+6FKLT Screws <K2-42>: DXQT26+D4NLT

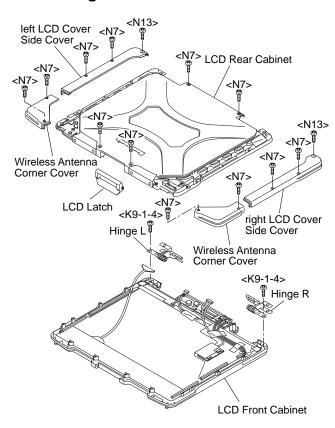
7.1.16. Removing the Display Unit



- 1. Remove the 2 Screws <N10> and the 4 Screws <N9>.
- 2. Remove the Display Unit.

Screws <N9>: DRYN4+J10FKL Screws <N10>: DXSB4+15FNLB

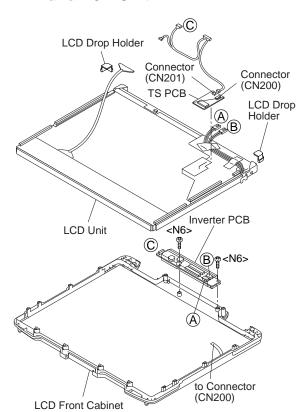
7.1.17. Removing the LCD Rear Cabinet, Hinge L and R



- 1. Remove the 4 Screws. <N7>
- 2. Remove the 2 Wireless Antenna Corner Covers.
- 3. Remove the 4 Screws <N7> and 2 Screws. <N13>
- 4. Remove the left and right LCD Cover Side Covers.
- 5. Remove the 4 Screws. <N7>
- 6. Remove the LCD Rear Cabinet.
- 7. Remove the LCD Latch.
- 8. Remove the 2 Screws. <K9-1-4>
- 9. Remove the Hinge L and R.

Screws <N2>: DRHM5054XA Screws <N7>: DRSB26+10HKL Screws <N13>: DRSB4+10FKL Screws <K9-1-4>: DRYN4+J10KLT

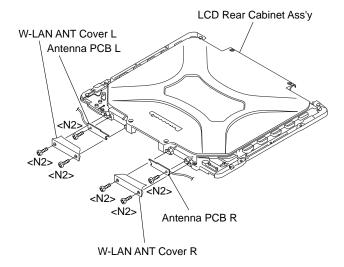
7.1.18. Removing the Inverter PCB, TS PCB and LCD Unit



- 1. Remove the 2 Screws. <N6>
- 2. Disconnect the 3 Cables from the 3 Connectors.
- 3. Remove the Inverter.
- 4. Disconnect the 2 Cables from the 2 Connectors. (CN200,CN201)
- 5. Remove the TS PCB.
- 6. Remove the 2 Drop Holders.
- 7. Remove the LCD Unit.

Screws <N6>: DRQT26+E4FKL

7.1.19. Removing the Antenna PCB L and R



- 1. Remove the 4 Screws <N2>.
- 2. Remove the W-LAN ANT Cover L and R.
- 3. Remove the 2 Screws. <N2>
- 4. Remove the Antenna PCB L and R.

Screws <N2>: DRHM5054XA

7.2. Reassembly Instructions

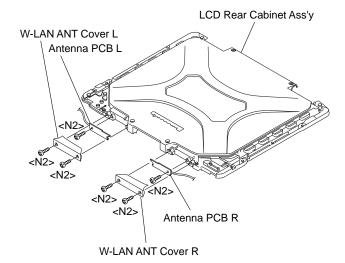
7.2.1. Attention when CF-30 series is repaired

- Please execute writing BIOS ID when you exchange the Main Board.
- Parts (Sheet and rubber) etc. related various the Conductive Cloth and Heat Spreader cannot be recycled. Use new parts.

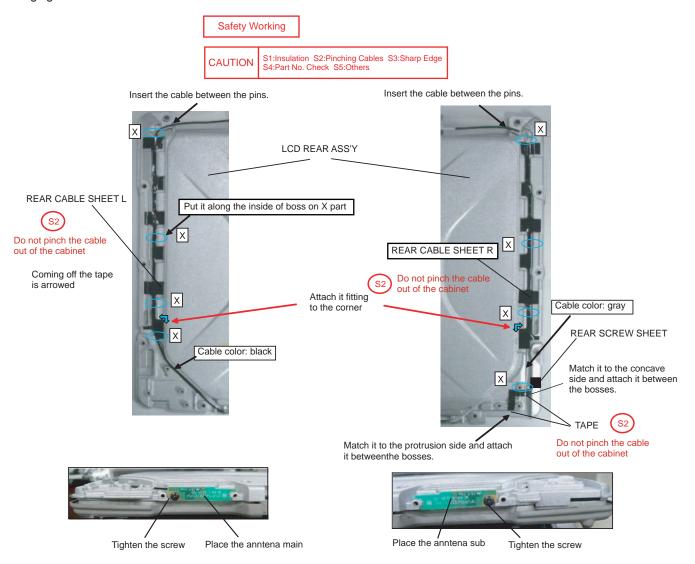
7.2.2. Setting the Antenna PCB L and R

- 1. Set the Antenna PCB L and R using the 2 Screws. <N2>
- 2. Fix the W-LAN ANT Cover L and R using the 4 Screws. <N2>

Screws <N2>: DRHM5054XA



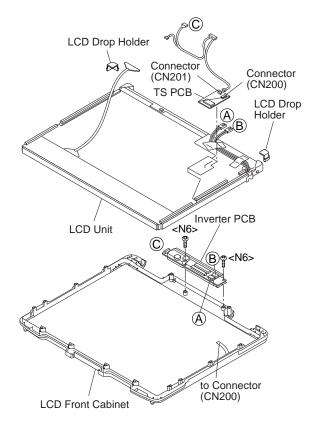
■ Arranging the Antenna L and R Cables



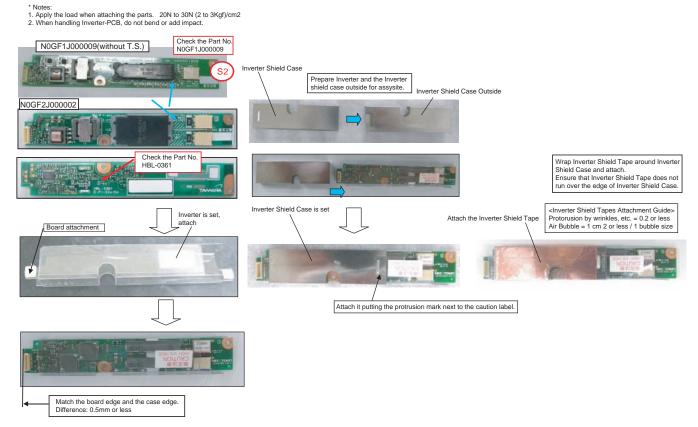
7.2.3. Setting the Inverter PCB, TS PCB and LCD Unit

- 1. Set the LCD Unit to the LCD Front Cabinet in order.
- 2. Attach the 2 drop holders.
- 3. Connect the Cable to the Connector. (CN200,CN201)
- 4. Connect the 3 Cables to the 3 Connectors.
- 5. Fix the Inverter PCB using the 2 Screws. <N6>

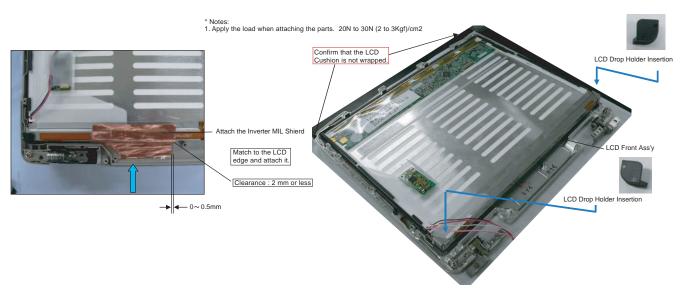
Screws <N6>: DRQT26+E4FKL



■ Preparation of Inverter



■ Assembly of LCD Unit



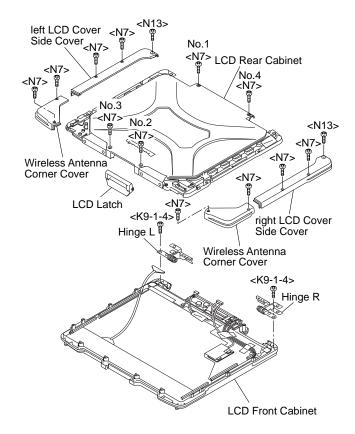
7.2.4. Setting the LCD Rear Cabinet, Hinge L and R

- 1. Fix the Hinge L and R using the 2 Screws. <K9-1-4>
- 2. Set the LCD Latch.
- 3. Fix the LCD Rear Cabinet using the 4 Screws. <N7> No1 to No4
- 4. Fix the left and right LCD Cover Side Cover using the 4 Screws <N7> and 2 Screws. <N13>
- 5. Fix the 2 Wireless Antenna Corner Cover using the 4 Screws. <N7>

Note:

Tighten the Screws in the numbered order (No1 to No4).

Screws <N2>: DRHM5054XA Screws <N7>: DRSB26+10HKL Screws <N13>: DRSB4+10FKL Screws <K9-1-4>: DRYN4+J10KLT



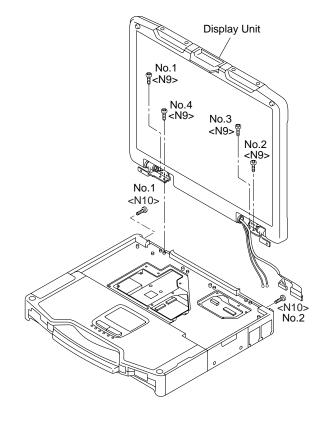
7.2.5. Setting the Display Unit

- 1. Fix the Display Unit using the 4 Screws. <N9> No1 to No4
- 2. Fix the Display Unit using the 2 Screws. <N10> No1, No2

Note:

Tighten the Screws in the numbered order (No1 to No2). Tighten the Screws in the numbered order (No1 to No4).

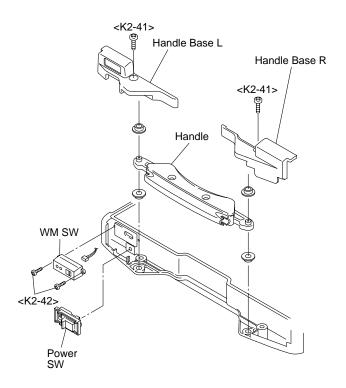
Screws <N9>: DRYN4+J10FKL Screws <N10>: DXSB4+15FNLB



7.2.6. Setting the Handle and Power SW

- 1. Set the WM SW using the 2 Screws. <K2-42>
- 2. Set the Power SW.
- 3. Set the Handle.
- 5.

Screws <K2-41>: DRSN4+6FKLT Screws <K2-42>: DXQT26+D4NLT



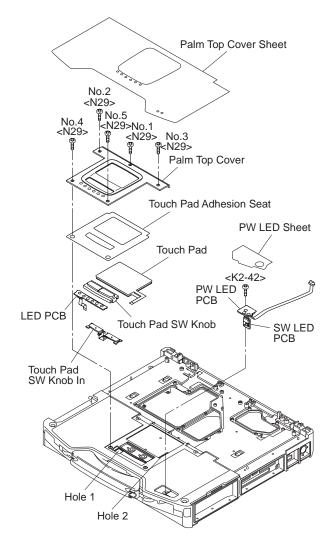
7.2.7. Setting the Palm Top Cover Sheet, Palm Top Cover, Touch Pad Adhesion Seat, Touch Pad SW Knob, LED PCB And SW LED PCB

- 1. Set the SW LED PCB.
- Attach the Power LED Packing Sheet to the LED Spacer Sheet.
- 3. Attach the LEDX6 Spacer Sheet on the SW LED PCB.
- 4. Fix the SW LED PCB using the Screw. <K2-42>
- 5. Attach the PW LED Sheet.
- Pass the Cable of LED PCB through the hole 1 on the Top Cabinet, then set the LED PCB.
- 7. Attach the LES Spacer Sheet on the LED PCB.
- 8. Set the touch Pad SW Knob In and Touch Pad SW Knob
- 9. Attach the TP Bottom Tape to the Touch Pad.
- 10. Pass the Cables of the Touch Pad through the hole 2 on the Top Cabinet, set the touch Pad.
- 11. Attach the Touch Pad Adhesion Seat.
- 12. Fix the Palm Top Cover using the 5 Screws. <N29> No1 to No5
- 13. Attach the Palm Top Cover Sheet.

Note:

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

Screws <K2-42>: DRQT26+D4NLT Screws <N29>: DRQT26+E3FNL



■ Preparation of SW LED FPC

Attach the Tape

Use a pinset.

Attach it not to overlap the SW leg.

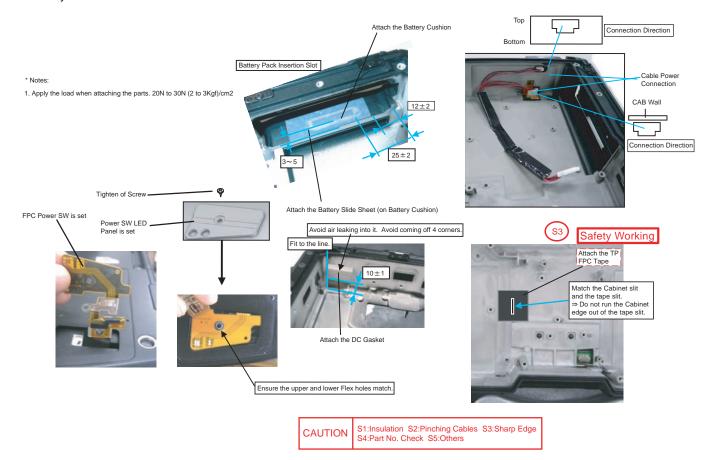
White Full Line: Mountain Fold

White Dotted Line: Valley Fold

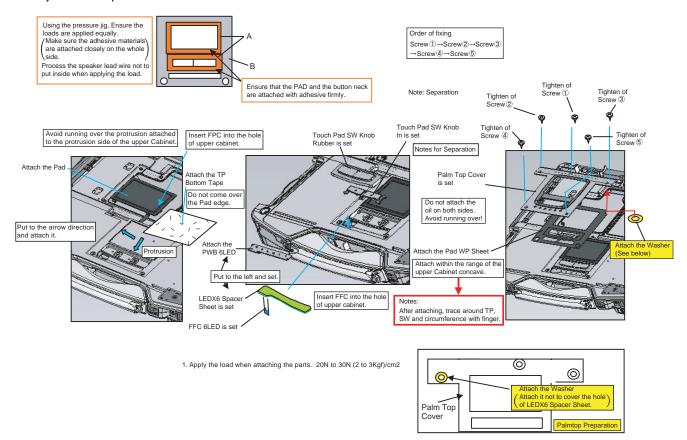
Attach the Sheet

1. Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2

■ Assembly of Power SW

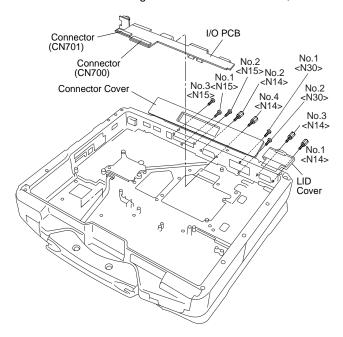


■ Assembly of Palm Top Cover



7.2.8. Setting the I/O PCB

- 1. Open the Connector Cover and Lid Cover.
- 2. Fix the I/O PCB using the 3 Screws. <N15> No1 to No3
- 3. Fix the I/O PCB using the 4 Screws. <N14> No1 to No4
- 4. Fix the I/O PCB using the 2 Screws. <N30> No1, No2



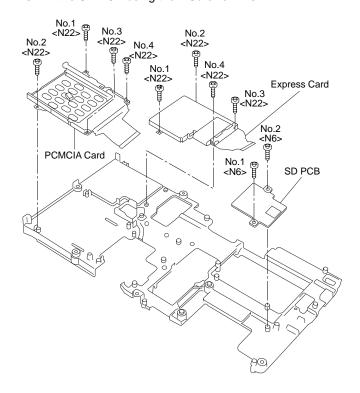
Note:

Tighten the Screws in the numbered order (No1 to No4).

Screws <N14>: DFHE5058ZB Screws <N15>; DRHM5104ZA Screws <N30>; DXHM0057ZA

7.2.9. Setting the SD PCB, Express Card and PCMCIA Card

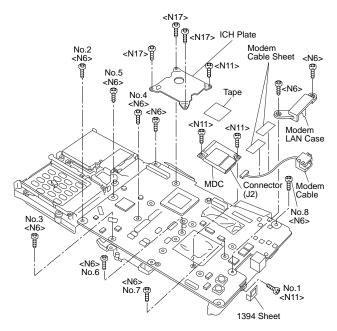
- 1. Fix the PCMCIA Card using the 4 Screws. <N22>
- 2. Fix the Express Card using the 4 Screws. <N22>
- 3. Fix the SD PCB using the 2 Screws. <N5>



Screws <N6>: DRQT26+E4FKL Screws <N22>: DXQT2+G4FNL

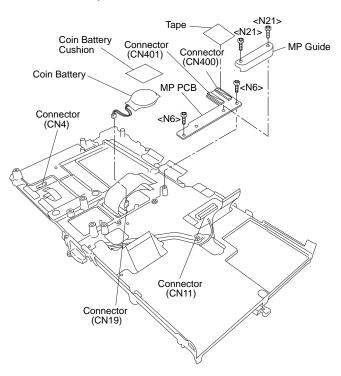
7.2.10. Setting the Main PCB

- 1. Fix the Main PCB using the 8 Screws <N6> and Screw. <N11> No1 to No8.
- 2. Set the Modem Cable.
- 3. Connect the Cable to the Connector (J2) and fix the MDC.
- 4. Attach the Tape.
- 5. Attach the 1394 Sheet.
- 6. Fix the MDC using the 2 Screws. <N11>
- 7. Fix the Modem LAN Case using the 2 Screws. <N6>
- 8. Attach the 2 Modem Cable Sheets.
- Fix the ICH Plate using the 3 Screws <N17> and Screw <N11>.

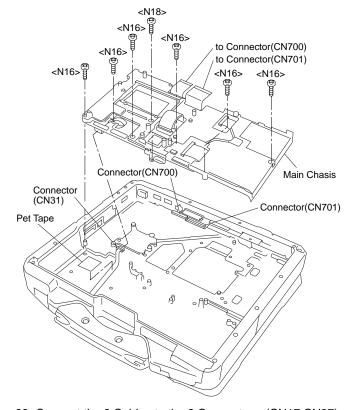


- 10. Connect the Cable to the Connector (CN4,CN11)
- 11. Attach the Tape.
- 12. Attach the Coin Battery.
- 13. Connect the Cable to the Connector. (CN19)
- 14. Attach the Coin Battery Cushion.
- 15. Fix the MP PCB and MP Guide using the 2 Screws <N6> and 2 Screws. <N21>
- 16. Connect the Cable to the Connector. (CN400,CN401)

17. Attach the Tape.



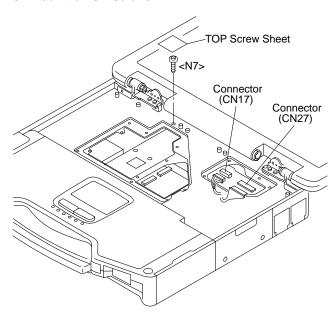
- 18. Set the Main Chasis on the Computer.
- 19. Connect the Cable to the Connector (CN31) and Attach the Pet Tape.
- 20. Connect the Cable to the Connector. (CN700,CN701)
- 21. Fix the Main Chasis using the 6 Screws <N16> No1 to No6
- 22. Fix the Main Chasis using the Screw. <N18>



23. Connect the 2 Cables to the 2 Connectors. (CN17,CN27)

24. Fix the Screw. <N7>

25. Attach the TOP Screws.

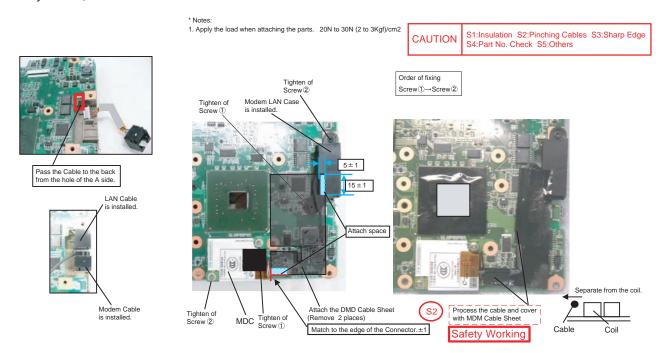


Note:

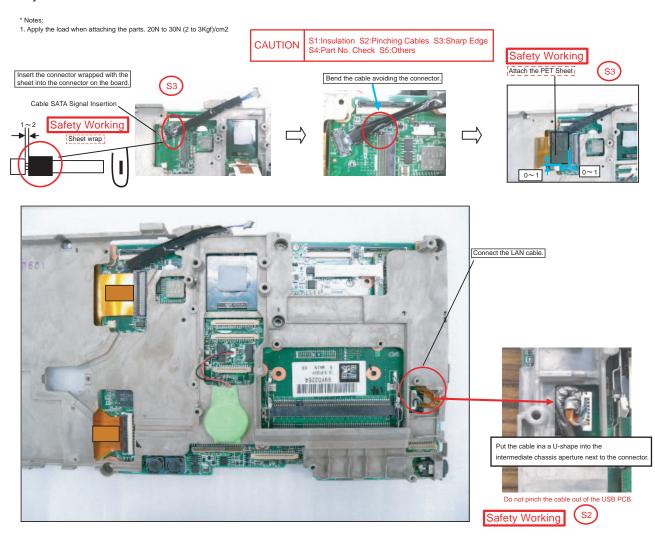
Tighten the Screws in the numbered order (No1 to No8). Tighten the Screws in the numbered order (No1 to No6).

Screws <N6>: DRQT26+E4FKL Screws <N7>: DRSB26+10HKL Screws <N11>: DFHE5025XA Screws <N16>: DRQT26+E5FKL Screws <N17>: DRQT26+E6FKL Screws <N18>: DRSB26+8FKL Screws <N21>: DXQT2+E12FNL

■ Assembly of LAN, Modem and MDC



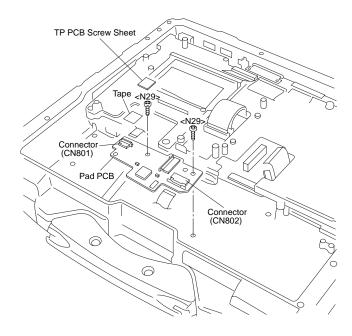
■ Assembly of Main PCB



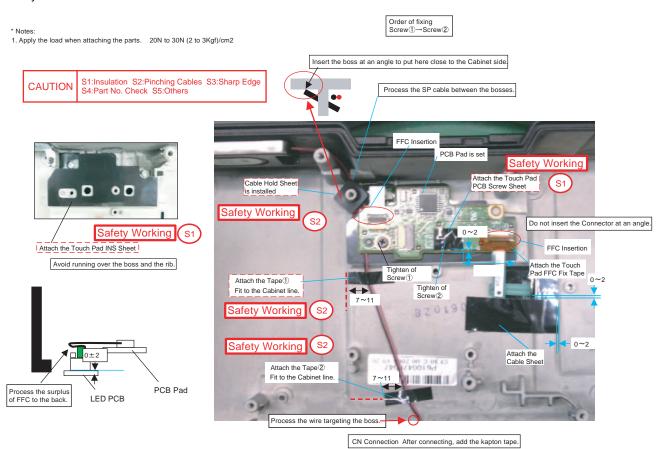
7.2.11. Setting the PAD PCB

- 1. Fix the PAD PCB using the 2 Screws. <N29>
- 2. Attach the TP PCB Screw Sheet.
- 3. Connect the Cable to the Connector. (CN802)
- 4. Connect the Cable to the Connector (CN801) and attach the Tape.

Screws <N29>: DRQT26+E3FNL



■ Assembly of PAD PCB



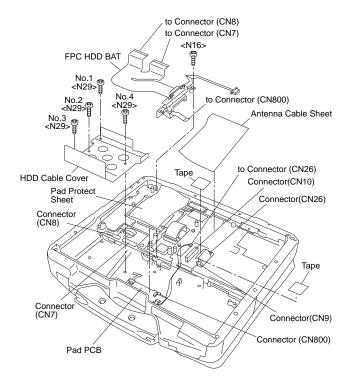
7.2.12. Setting the FPC HDD BAT

- 1. Fix the FPC HDD BAT using the Screw. <N16>
- 2. Connect the 2 Cables to the 2 Connectors. (CN7,CN8)
- 3. Connect the Cable to the Connector. (CN800)
- 4. Attach the PAD Protect Sheet.
- 5. Connect the Cable to the Connector. (CN9)
- 6. Attach the Tape.
- 7. Connect the 2 Cables to the 2 Connectors. (CN10,CN26)
- 8. Attach the Tape.
- 9. Attach the Antenna Cable Sheet on the Main PCB.
- 10. Fix the HDD FPC BAT using the 4 Screws. <N29> No1 to No4

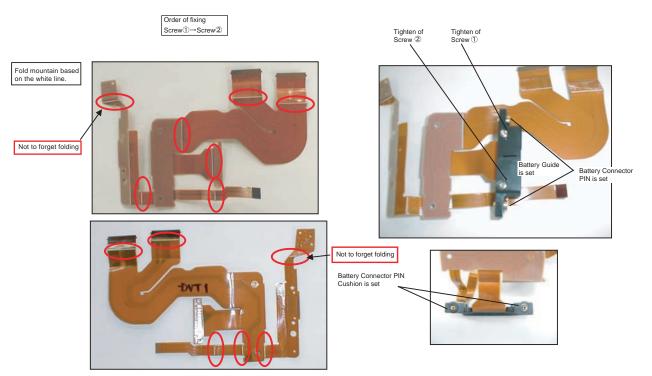
Note:

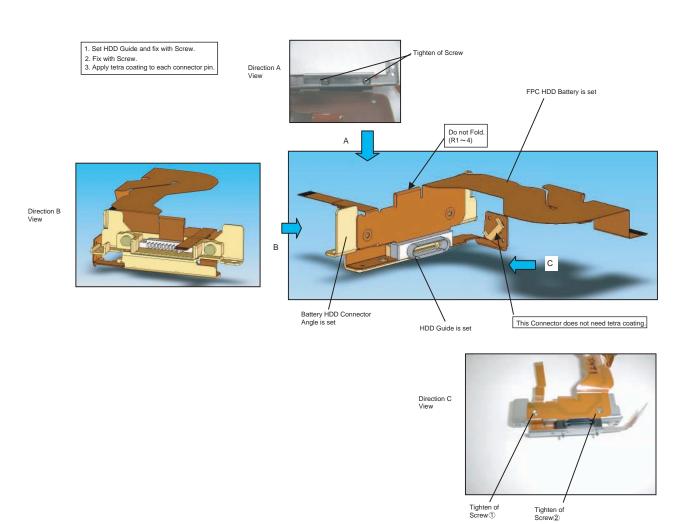
Tighten the Screws in the numbered order (No1 to No4).

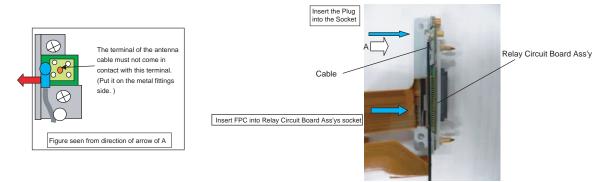
Screw <N16>: DRQT26+E5FKL Screw <N29>: DRQT26+E3FNL

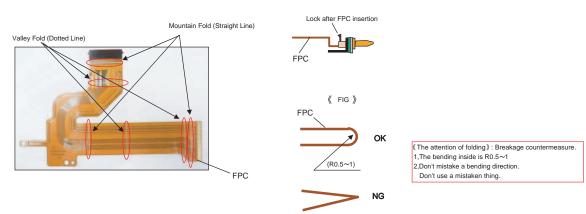


■ Preparation of HDD FPC ASSY





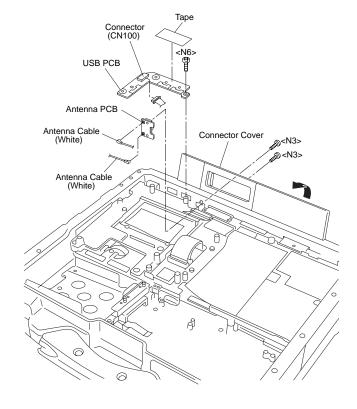




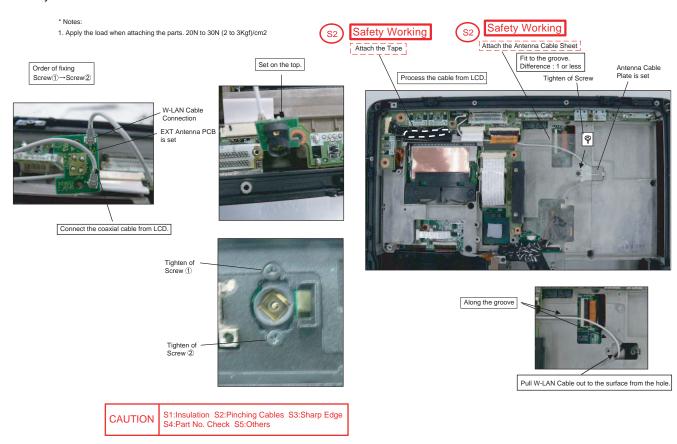
7.2.13. Setting the USB PCB and Antenna PCB

- 1. Open the Connector Cover.
- 2. Fix the Antenna PCB using the 2 Screws. <N3>
- 3. Connect the 2 white Cables.
- 4. Fix the USB PCB using the Screws. <N6>
- 5. Connect the Cable to the Connector. (CN100)
- 6. Attach the Tape.

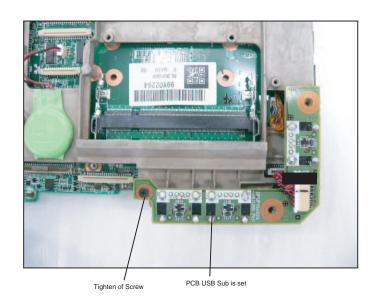
Screws <N3>: DRQT2+G6FKL Screws <N6>: DRQT26+E4FKL

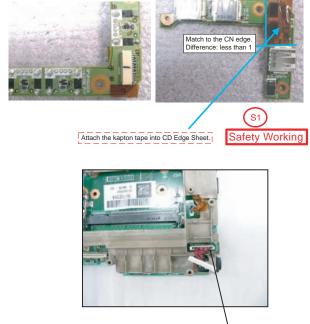


■ Assembly of USB PCB



- * Note
- 1. Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2





Match to the board edge. Difference: less than 1

Cable USB is set

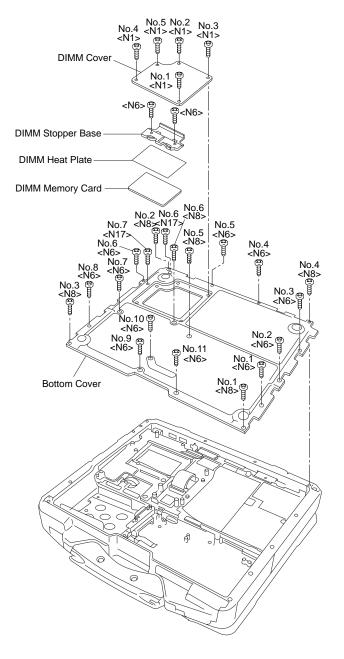
7.2.14. Setting the DIMM Cover and Bottom Cover

- 1. Set the Bottom Cover.
- 2. Fix the Bottom Cover using the 6 Screws. <N8> No1 to No6
- 3. Fix the Bottom Cover using the 11 Screws. <N6> No1 to No11
- 4. Fix the Bottom Cover using the 2 Screws. <N17> No1, No2
- 5. Set the DIMM memory card.
- 6. Attach the DIMM Heat Plate.
- 7. Fix the DIMM Stopper Base using the 2 Screws. <N2>
- 8. Fix the DIMM Cover using the 5 Screws. <N1>

Screws <N1>: DRHM0002ZA Screws <N5>: DRQT26+D4FKL Screws <N6>: DRQT26+E4FKL Screws <N8>: DRSB3+8FKL Screws <N17>: DRQT26+E6FKL

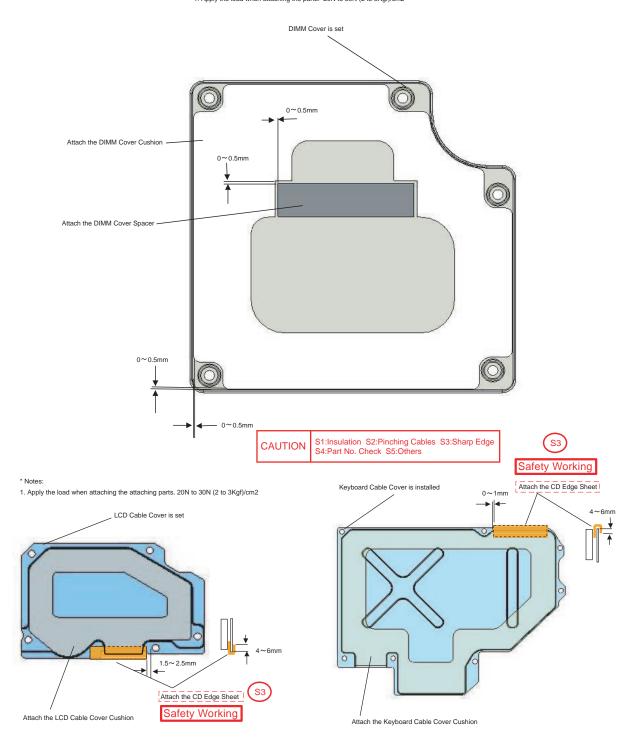
Note:

Tighten the Screws in the numbered order (No1 to No6). Tighten the Screws in the numbered order (No1 to No11). Tighten the Screws in the numbered order (No1, No2). Tighten the Screws in the numbered order (No1 to No5).



■ Preparation of DIMM Cover

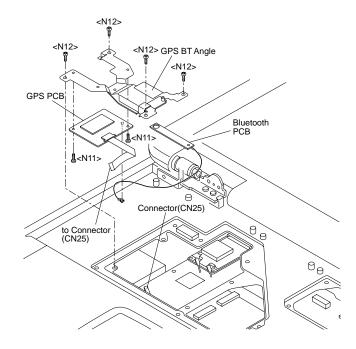
- * Notes:
- 1. Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2



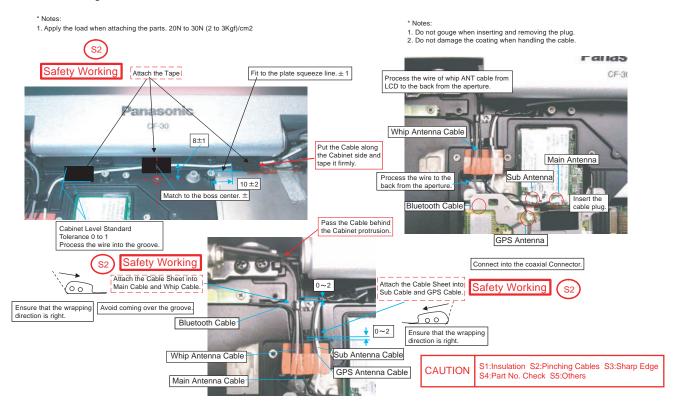
7.2.15. Setting the GPS PCB and Bluetooth PCB

- 1. Fix the GPS BT Angle and GPS PCB using the 2 Screws. <N11>
- 2. Connect the Cable to the Connector on GPS PCB.
- 3. Fix the GPS Ass'y using the 4 Screws. <N12>
- 4. Connect the Cable to the Connector. (CN25)

Screws <N11>: DFHE5025XA Screws <N12>: DXQT2+F3FNL



■ Cautions for Setting GPS ASSY and BT PCB ASSY



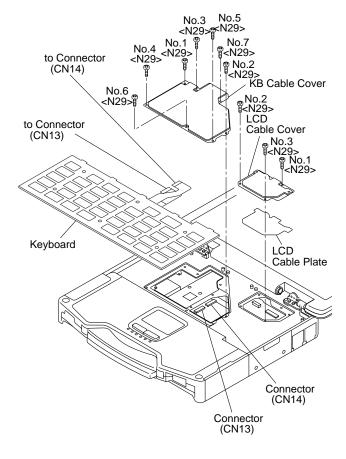
7.2.16. Setting the KB Cable Cover, Keyboard and LCD Cable Cover

- 1. Set the Keyboard onto the Computer.
- 2. Connect the 2 Cables to the 2 Cables. (CN13,CN14)
- Fix the KB Cable Cover using the 7 Screws. <N29> No1 to No7
- 4. Set the LCD Cable Plate.
- Fix the LCD Cable Cover using the 3 Screws. <N29> No1 to No3

Note:

Tighten the Screws in the numbered order (No1 to No7). Tighten the Screws in the numbered order (No1 to No3).

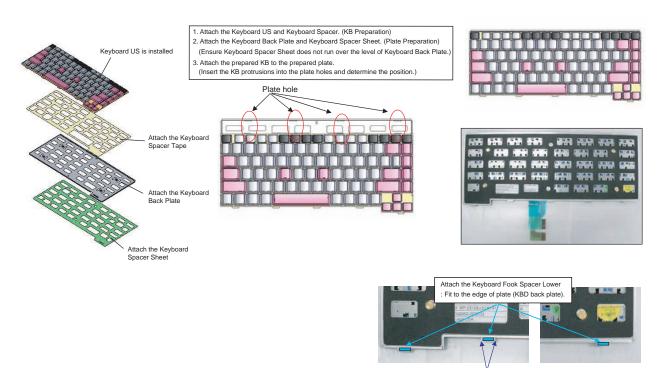
Screws <N29>: DRQT26+E3FNL



Both sides should not come over the plate.

■ Arranging the Keyboard

- * Notes
- 1. Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2



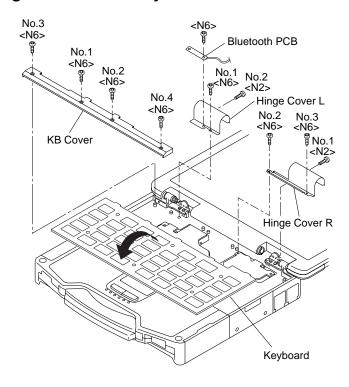
7.2.17. Setting the KB Cover, Hinge Cover L, Hinge Cover R and Keyboard

- 1. Insert the front hooks of the Keyboard to the Top Cabinet in order, and set the Keyboard.
- 2. Fix the Hinge Cover L and R using the 3 Screws <N6> No1 to No3
- Fix the Hinge Cover L and R using the 2 Screws. <N2> No1, No2
- 4. Fix the Bluetooth PCB using the Screw. <N6>
- 5. Fix the KB Cover using the 4 Screws. <N6> No1 to No4

Note:

Tighten the Screws in the numbered order (No1 to No4). Tighten the Screws in the numbered order (No1 to No3). Tighten the Screws in the numbered order (No1, No2).

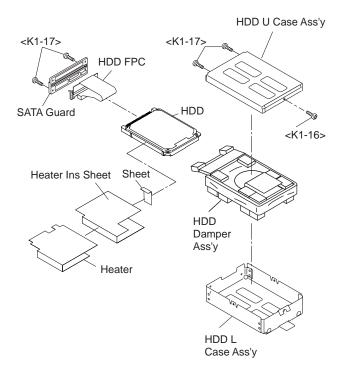
Screws <N2>: DRHM5054XA Screws <N6>: DRQT26+E4FKL



7.2.18. Setting the HDD

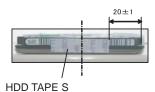
- 1. Set the HDD FPC to HDD.
- 2. Attach the Heater Ins Sheet and Sheet to HDD.
- 3. Attach the Heater to HDD.
- 4. Attach the 6 HDD Forming MFYPC and the two HDD Terminal Plate Upper to the HDD Damper Ass'y.
- 5. Attach the six HDD Forming MFYPC and the two HDD Terminal Plate Upper to the HDD Damper Ass'y.
- 6. Set the HDD Damper Ass'y to HDD.
- 7. Attach the Side Cushion to the HDD L Case Ass'y.
- 8. Set the HDD U Case Ass'y and the HDD L Case Ass'y, and set the two Tabs of the HDD L Case Ass'y.
- 9. Fix the HDD U Case Ass'y and the HDD L Case Ass'y using the 4 Screws <K1-17> and Screw <K1-16>.

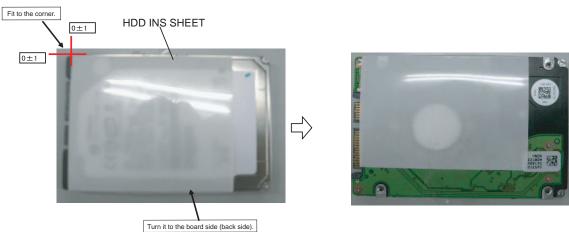
Screws <K1-16>: DFHE5025XA Screws <K1-17>: DRQT2+E8FKL



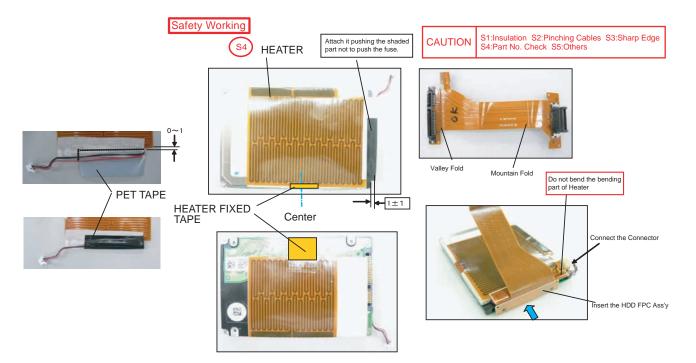
■ Preparation oh HDD ASSY

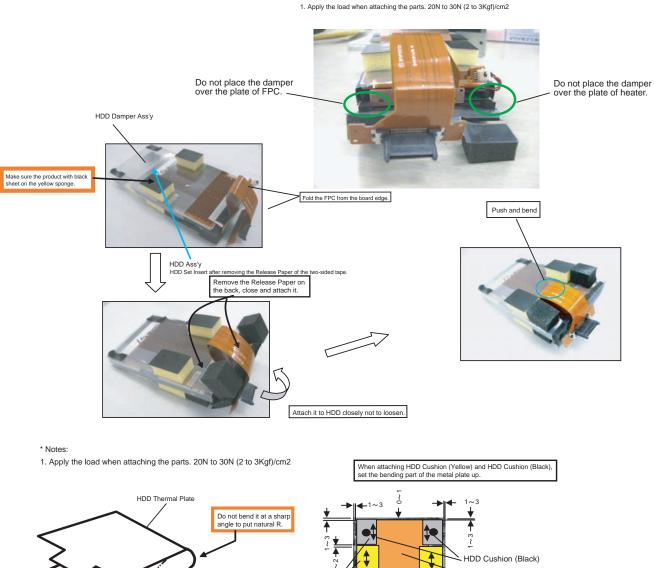
- * Notes:
- 1. Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2

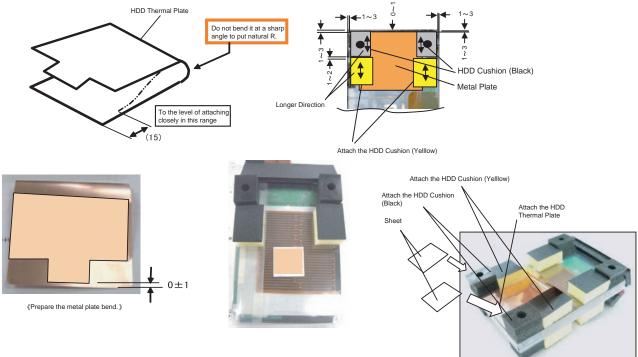


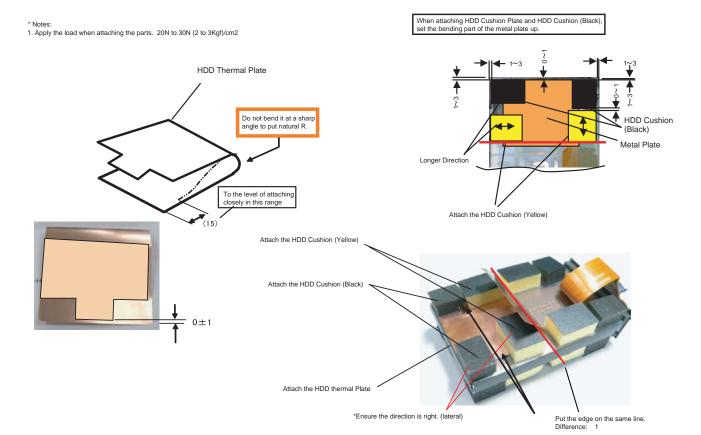


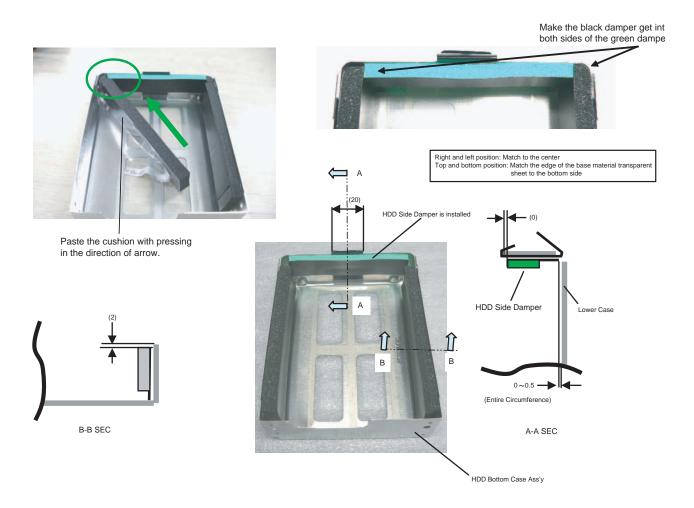
- Do not gouge when inserting and removing the socket.
 Do not drop HDD or add any impacts on it.
 Insert CN into the end firmly.
 Apply the load when attaching the parts. 20N to 30N (2 to 3Kgf)/cm2

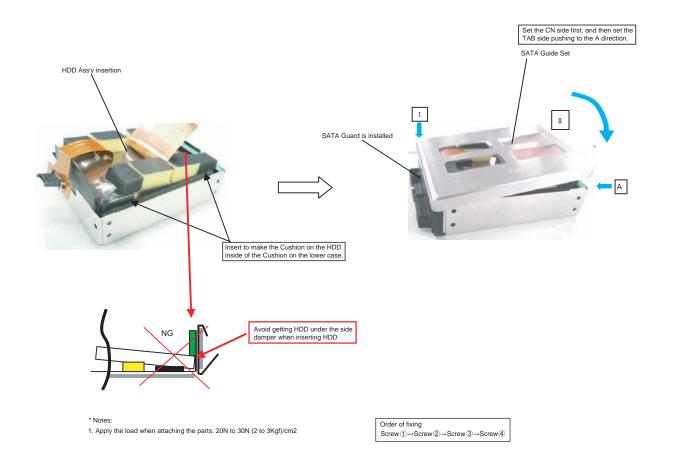


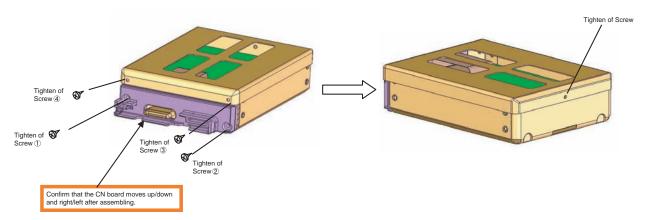






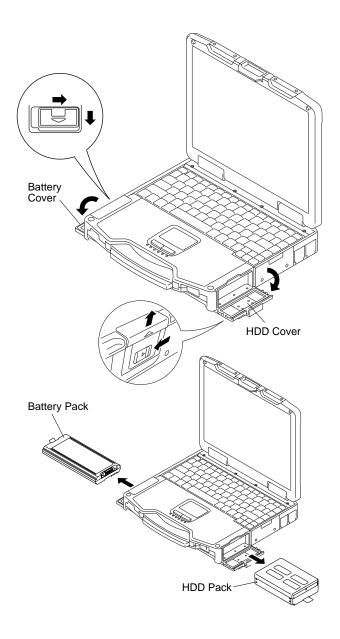




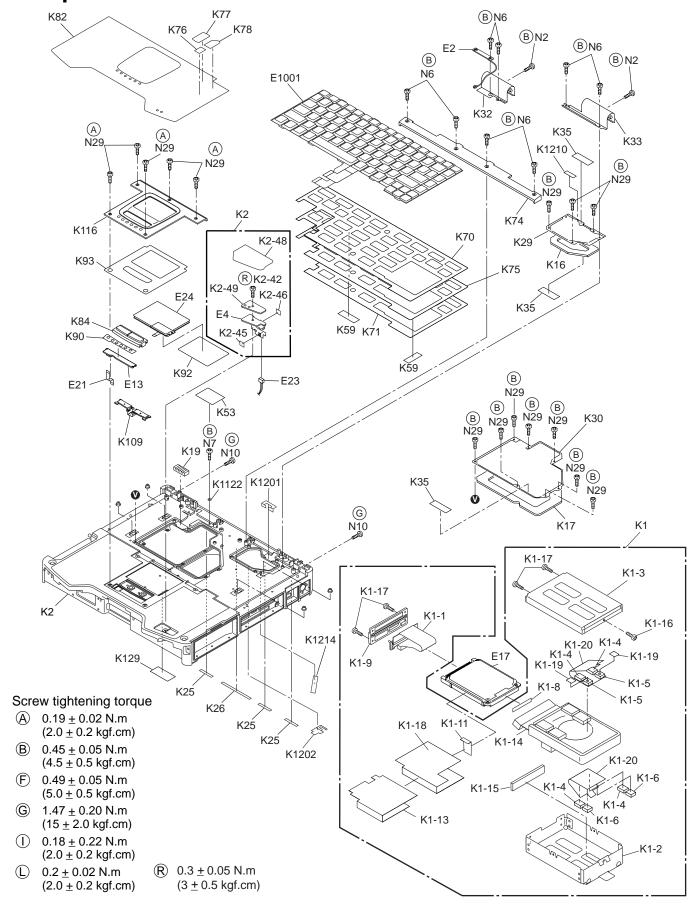


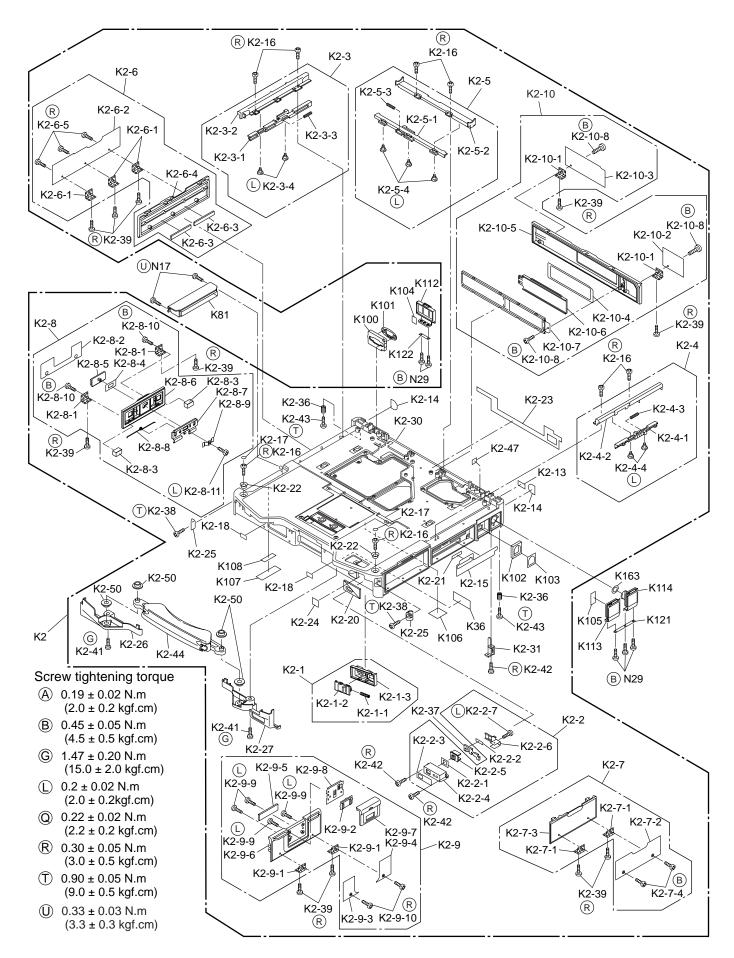
7.2.19. Setting the Battery Pack and HDD Pack

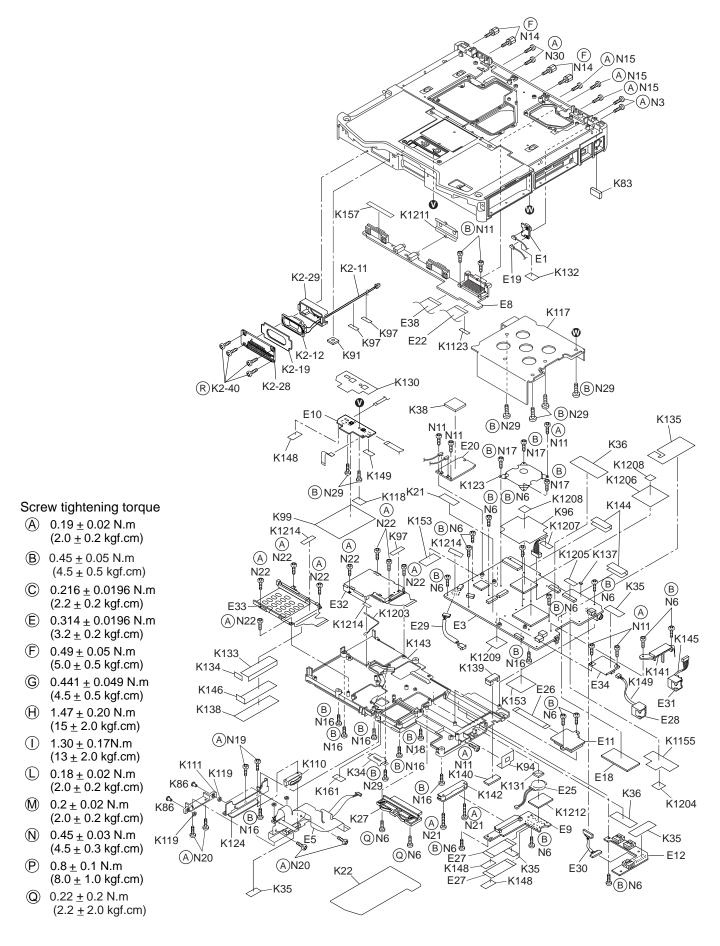
- 1. Set the HDD Pack.
- 2. Set the Battery Pack.

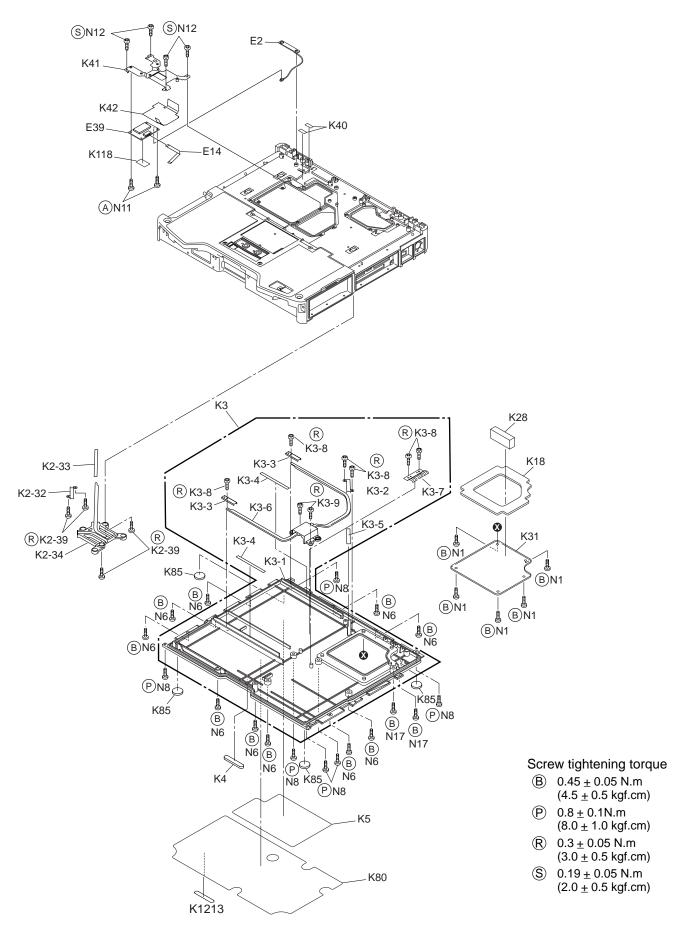


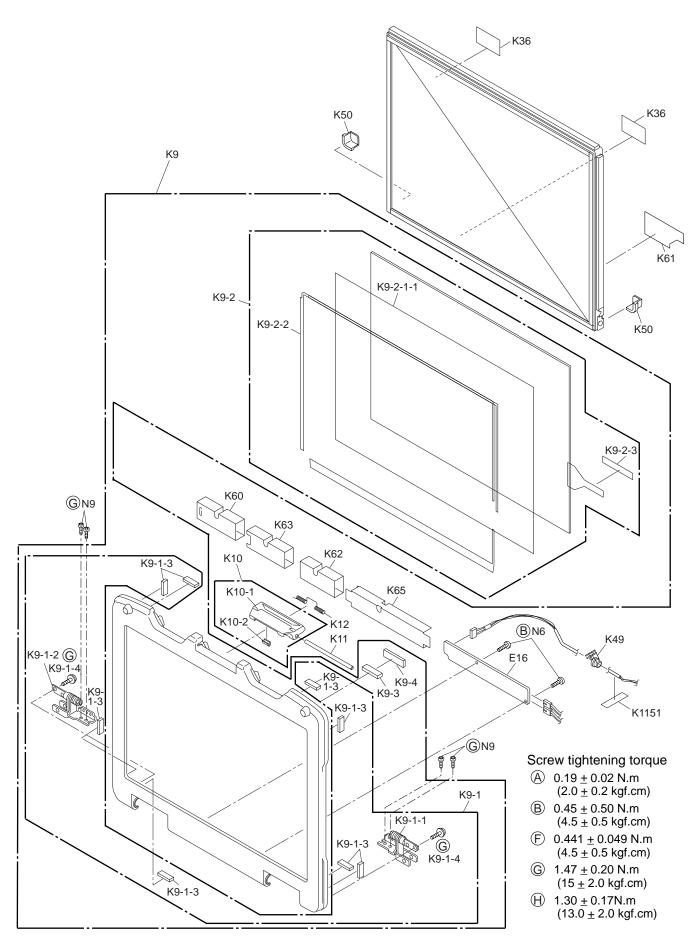
10 Exploded View

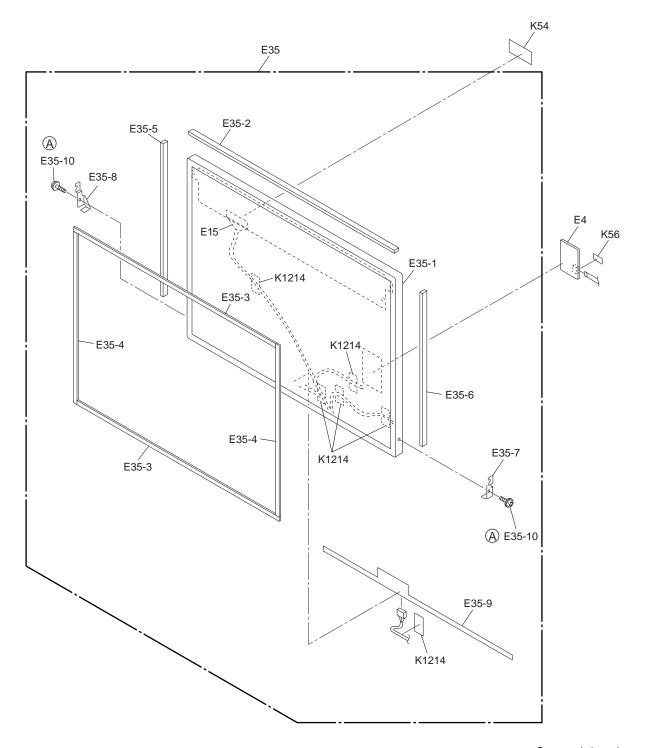






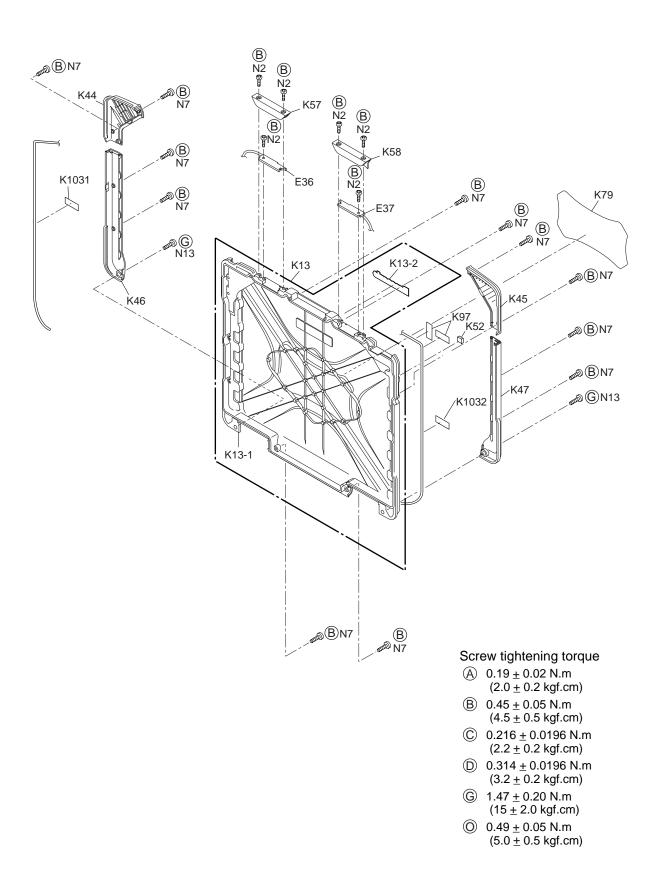






Screw tightening torque

- (A) $0.19 \pm 0.02 \text{ N.m}$ (2.0 ± 0.2 kgf.cm)
- \bigcirc 0.45 \pm 0.05 N.m (4.5 \pm 0.5 kgf.cm)
- \bigcirc 0.216 \pm 0.0196 N.m (2.2 \pm 0.2 kgf.cm)
- (E) $0.49 \pm 0.05 \text{ N.m}$ (5.0 ± 0.5 kgf.cm)



Replacement Parts List

Note : Important Safety Notice

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

CF-30FTSAZAM

REF. NO and AR	EA	PART NO.	DESCRIPTION	Q'TY
Main Block Unit				
E1		DL3UP1336BAA	PCB, EXT ANT RT	_
E2		DL3UP1354CAA	PCB, BT ANT UNIT RT	-
E3		DL3UP1630AAA	PCB, MAIN UNIT FOR MK2 RT	_
E4		DFWP0150ZA	SW-LED FPC UNIT	
E5		DL3UP1543AAA	HDD BATTERY FPC UNIT	
E7		DL3UP1580AAA	PCB, TOUCH PANEL CONTROLLER RT	_
E8		DL3U11540BAA	PCB, IO RT	_
E9		DL3U21540BAA	PCB, MP RT	_
E10		DL3U31540BAA	PCB, PAD RT	_
E11		DL3U41540BAA	PCB, SD RT	_
E12		DL3U61540BAA	PCB, USB RT	_
E13		DL3U71540BAA	PCB, LED RT	_
E14		DFJK10U050BB	FFC	
E15		DFJS1031XA	LCD CABLE	
E16	A	N0GF2J000002	INVERTER	
E17	<u></u>	N3CAYYY00030	HDD, 80GB 5400RPM SATA	
E18		N5ZZ00000129	SO-DIMM, DDR2-667 1GB	
E19		DFJS1049ZA	W-LAN CABLE	
E20	Λ	N5HZC0000031	WIRELESS LAN MODULE	
E21		DFJK10T017BB	FFC	
E22		DFJK40T030BB	FFC IO40	
E23		DFJS1037ZB	POWER CABLE	
E24		N2EABEC00006	TOUCHPAD	
E25		BR-2330A/SF	LITHIUM COIN BATTERY	
E26		DFJK12U050BB	FFC SD	
E27		DFJK40U056BB	FFC MP OUTER	
E28		DFJS1032YA	MODEM CABLE	
E29		DFJS1035YA	SATA CABLE	
E30		DFJS1036ZA	CABLE USB	
E31		DFJS1046YA	LAN CABLE	
E32		K1NA26Z00001	CONNECTOR	
E33		K1NA68Z00009	PCMCIA CONNECTOR	
E34	Λ	N5HAZ0000014	MODEM	1
E35	<u> </u>	DFWV08A0090	LCD UNIT ASS'Y	1
E35-1		DL3DE0183AAA	LCD PREPARATION UNIT	1
E35-2		DFHG1926YA	LCD SIDE DAMPER(U)	1
E35-3		DFHG1927ZA	TS SPACER(L)	1
E35-4		DFHG1928ZA	TS SPACER(S)	1
E35-5		DFHG1882YA	LCD DMP L	
E35-6		DFHG1883YB	LCD SIDE DMP R	
E35-7		DFMD3130ZA	LCD HOLD PLATE L	
E35-8		DFMD3131ZA	LCD HOLD PLATE R	
E35-9	Λ	L9DZYY000006	HEATER(LCD)	
E35-10	7:7	DXYN2+C3FNL	SCREW	
E36		N1ZYYY000005	WLAN MAIN ANTENNA	
E37		N1ZYYY000006	WLAN SUB ANTENNA	1
E38		DFUP1565ZA		1
E38		DL3UP1635BAA	FPC BT PWB UNIT FOR 30MK2 RT	
E1001		N2ABZY000035	BT PWB UNIT FOR 30MK2 RTI KEYBOARD VISTA, U.S.	-

Accessories				
A1	Λ	NCR-B/901A	LITHIUM ION BATTERY PACK	1
A2	$\overline{\mathbb{A}}$	CF-AA1653ASA	AC ADAPTOR	1
A3		DFHR6207ZA	PEN	1
A4		DFHS9017ZA	TOUCHPANEL CLOTH	1
A5		DFME0148YA	PEN TETHER	1
A6	\triangle	DFQW5098ZA	MANUAL(CF30MK2M XP)	1
A7	$\overline{\mathbb{A}}$	K2CG3DR00003	AC CORD	1
A8		DFJS954ZA	MODEM CABLE	1
A21		DFHR6339ZA-0	DUMMY EXPRESS CARD	1
A22		DFHR6340ZA-0	DUMMY PC CARD	1
A23	Λ	DFKE0911ZC-0	MP DUMMY CASE	1
A91		DFQM8357MA	RECOVERY DVD, VISTA	1
Packing Material			MEGOVERNI BVB, NOIN	1
P1		DFPH0064ZA	PACKING PAPER	1
P2		DFPP0143ZA	PROTECTION BAG	1
P3		DFPE0852ZA	MANUAL HOLDER	1
P4		DFPN0845ZA	DB CUSHION	1
P5		DFPK1202WA	PACKING CASE(OVERSEAS)	1
Mechanical Parts		1	p. ACAMING CACLOTERIOLAGY	<u>'</u>
K1		DFWV99A0125	HDD MOUNTING KIT	1
K1-1		DL3UP1557AAA	HDD PACK FPC UNIT	1
K1-2		DFMD8041YA	HDD LOWER CASE ASS'Y	1
K1-3		DFMD8042YA	HDD UPPER CASE ASS'Y	1
K1-4		DFHG1750YB	HDD CUSHION(YELLOW)	4
K1-5		DFHG1933ZA	FIX CORE CUSHION	2
K1-6		DFHG1934ZA	HDD FORMING M2	2
K1-8		DFHP7101ZA	DOUBLE SIDE TAPE(7X30)	1
K1-9		DFHR6264ZA	SATA GUARD	1
K1-11		DFMX0634ZA	CD EDGE SHEET	1
K1-13	\wedge	L9DZYY000008	HEATER(HDD)	1
K1-14	<u> </u>	DFHR8522XA	HDD DAMPER ASS'Y	1
K1-15		DFHR8523WA	HDD SIDE DAMPER ASS'Y	1
K1-16		DFHE5025XA	SCREW	1
K1-17		DRQT2+E8FKL	SCREW	1
K1-18		DFMX1265ZB	HEATER INS SHEET	1
K1-19		DFHR3H11ZA	HDD CUSHION TOP SHEET	2
K1-20		DFMY3263ZA	HDD THERMAL PLATE LOWER	2
K2	\wedge	DFKM8183TA-0	TOP CASE ASS'Y	1
K2-1	7:3	DFBD9010ZA-0	POWER SW ASS'Y	1
K2-1-1		DFHR6251ZA-0	POWER SW FLAME	1
K2-1-2		DFHR6252ZA-0	POWER SW KNOB	1
K2-1-3		DFUQ0114ZA	POWER SW KNOB SPRING	1
K2-1-3 K2-2		DFBD9011XA-0	WIRELESS OFF SW ASS'Y	1
K2-2-1		DFHG1885YA	WM SW CUSHION	1
K2-2-1		DFHG1883TA DFHP7140ZAT	TAPE	1
K2-2-2 K2-2-3		DFHR3D54ZA-0	WM SW SHEET	1
K2-2-4		DFHR6257ZB	WIRELESS SW CASE	1
K2-2-4 K2-2-5		DFHR6257ZB	WIRELESS SW CASE WIRELESS SW KNOB	1
K2-2-5 K2-2-6		DFMD7B10YA	WM OFF SW PLATE	1
K2-2-0 K2-2-7		XTB2+4GFN	SCREW	1
K2-2-7 K2-3	Λ.	DFKE8185ZA-0	MP LATCH ASS'Y	1
K2-3-1	\triangle	DFBD0190ZA-0		1
	Α.	DFKE0861ZA-0	MP LATCH CASE	
K2-3-2	\triangle		MP LATCH CASE	
K2-3-3		DFUQ0113ZA	SD LATCH SPRING	
K2-3-4		DRHM0110ZAT	SCREW	2
K2-4	\triangle	DFKE8186ZA-0	SD LATCH ASS'Y	1
K2-4-1	^	DFBD0192ZA-0	SD LATCH LEVER	1
K2-4-2	<u> </u>	DFKE0867ZA-0	SD LATCH CASE	1

K2-4-3	DFUQ0113ZA	SD LATCH SPRING	1
K2-4-3	DRHM0110ZAT		2
		SCREW CONTACCINA	
K2−5 <u>∧</u>	DFKE8187YA-0	CN LATCH ASS'Y	I
K2-5-1	DFBD0193ZA-0	CN LATCH LEVER	<u> </u>
K2-5-2 <u>∧</u>	DFKE0869YA-0	CN LATCH CASE	1
K2-5-3	DFUQ0116ZA	CN LATCH SPRING	1
K2-5-4	DRHM0110ZAT	SCREW	3
K2−6 <u>∧</u>	DFKE8188ZA-0	MP COVER ASS'Y	1
K2-6-1	DFBH3051ZA	LID HINGE	3
K2-6-2	DFGE0139ZA-0	MP COVER SHEET	1
K2-6-3	DFHR3E55ZA	MP COVER CUSHON	2
K2-6-4 ^	DFKE0860ZA-0	MP COVER	1
K2-6-5	DRQT26+D3KLT	SCREW	3
K2−7 <u>∧</u>	DFKE8189YA-0	SD COVER ASS'Y SDHC	1
K2-7-1	DFBH3051ZA	LID HINGE	2
K2-7-2	DFGE0140YA-0	SD COVER SHEET	1
K2-7-3 ^	DFKE0866ZA-0	SD COVER	1
K2-7-4	DRQT26+D3KLT	SCREW	2
	DFKE8190XB-0		1
		BATT COVER ASS'Y	1
K2-8-1	DFBH3051ZA	LID HINGE	2
K2-8-2	DFGE0141ZA-0	BATT COVER SHEET	1
K2-8-3	DFHR3E56ZA	BATT COVER CUSHION	2
K2-8-4	DFHR3E59ZA	BATT LID KNOB SHEET	1
K2−8−5 <u>∧</u>	DFKE0799ZA-0	LID KNOB	1
K2−8−6 <u>∧</u>	DFKE0862XA-0	BATT COVER	1
K2-8-7	DFMD7B12ZA	BATT LATCH ANGLE	1
K2-8-8	DFUN0084XA	BATT LATCH SPRING	1
K2-8-9	DFUS0323ZA	LID KNOB SPRING PLATE	1
K2-8-10	DRQT26+D3KLT	SCREW	2
K2-8-11	DXQT2+F3FNLT	SCREW	1
K2−9 	DFKE8191YA-0	HDD COVER ASS'Y	1
K2-9-1	DFBH3051ZA	LID HINGE	2
K2-9-2	DFBD0191ZA-0	HDD COVER LOCK KNOB	1
K2-9-3	DFGE0149ZA-0		1
		HDD COVER SHEET L	1
K2-9-4	DFGE0150ZA-0	HDD COVER SHEET R	1
K2-9-5	DFHR3E57ZA	HDD COVER CUSHION	- 1
	DFKE0864YA-0	HDD COVER	<u> </u>
K2−9−7 <u>↑</u>	DFKE0865ZA-0	HDD COVER LID KNOB	1
K2-9-8	DFUS0311ZA	HDD COVER SPRING PLATE	1
K2-9-9	DRQT2+D25KMT	SCREW	4
K2-9-10	DRQT26+D3KLT	SCREW	2
K2−10 <u></u>	DFKE8192ZA-0	CN COVER ASS'Y	1
K2-10-1	DFBH3051ZA	LID HINGE	2
K2-10-2	DFGE0143ZA-0	CN COVER SHEET L	1
K2-10-3	DFGE0144ZA-0	CN COVER SHEET R	1
K2-10-4	DFHR3E58ZA	CN PACKIN-SLIDE	1
	DFKE0868ZA-0	CN COVER	1
K2-10-6	DFKE0875ZA-0	CN SLIDE COVER	1
K2-10-7	DFMD7B11ZA	CN WATER PROOF PLATE	1
K2-10-8	DRQT26+D3KLT	SCREW	3
K2-11	DFJS1030ZA	SP CABLE	1
K2-11 K2-12	L0AA04C00012		1
		SPEAKER TOP LOOK SHEET	I
K2-13	DFGE0111YA-0	TOP LOOK SHEET	1
K2-14	DFGE0145ZA-0	REAR BELT COVER SHEET	2
K2-15	DFGL0153ZB-0	SD LED SHEET (NO SC)	1
K2-16	DFHE5121YA	SCREW	8
K2-17			
	DFHG1699ZA	LCD LOCK SHEET	2
K2-17 K2-18 K2-19	DFHG1699ZA DFHG1891ZA	LCD LOCK SHEET HANDLE ARM CUSHION	2

K2-20 DFHGI93TZAT WM SW CASE CUSHION K2-21 DFHGI93TZAT SD SHEET SPACER TW K2-22 DFHM0419YA LCD FOOT CAP K2-23 DFHR3D56ZA-0 CN COVER SHEET K2-24 DFHR3E66ZA POWER SW CUSHION K2-25 DFHR6291YB-0 FRONT BELT COVER K2-26 ♠ DFKE0851ZB-0 HANDLE BASE R K2-27 ♠ DFKE085ZB-0 HANDLE BASE R K2-28 ♠ DFKE085ZB-0 SPEAKER CASE A K2-29 ♠ DFKE0876ZB SPEAKER CASE A K2-30 ♠ DFKE0876ZB SPEAKER CASE B K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2170ZA KENSINGTON PLATE K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-35 DFWD0145YA FPC K2-36 DFLY0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRRM0118ZAT SCRE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
K2-22 DFHM0419YA LCD FOOT CAP K2-23 DFHR3D562A-0 CN COVER SHEET K2-24 DFHR3D562A-0 CN COVER SHEET K2-25 DFHR6291YB-0 FRONT BELT COVER K2-26 ⚠ DFKE0851ZB-0 HANDLE BASE L K2-27 ⚠ DFKE0852ZB-0 HANDLE BASE R K2-28 ⚠ DFKE0852ZB-0 SPEAKER CASE B K2-29 ⚠ DFKE0852ZB SPEAKER CASE B K2-30 ▲ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2170ZA HEAT PIPE ANGLE A K2-33 DFMV0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY05037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRGT26+D3KLT SCREW K2-40 DRGT26+D3KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXOT26+D4NLT TW SCREW	1
K2-23 DFHR3D56ZA-0 CN COVER SHEET K2-24 DFHR3E66ZA POWER SW CUSHION K2-25 DFHR6E6ZA POWER SW CUSHION K2-26 ♠ DFKE0851ZB-0 HANDLE BASE L K2-27 ♠ DFKE0852ZB-0 HANDLE BASE R K2-28 ♠ DFKE085ZB-0 SPEAKER CASE A K2-29 ♠ DFKE0856ZB-0 SPEAKER CASE B K2-30 ♠ DFKM0516WA-0 TOP CASE K2-31 DFKM0516WA-0 TOP CASE K2-32 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRGT26+D5KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXXT26-D4MLT T W SCREW <t< td=""><td>1</td></t<>	1
K2-24 DFHR3E66ZA POWER SW CUSHION K2-25 DFHR6291YB-0 FRONT BELT COVER K2-26 Å DFKE0851ZB-0 HANDLE BASE L K2-27 Å DFKE0852ZB-0 HANDLE BASE R K2-28 Å DFKE0856ZB-0 SPEAKER CASE A K2-29 Å DFKE0876ZB SPEAKER CASE B K2-30 Å DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2170ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRIM0118ZAT SCREW K2-39 DRGT26HD3KLT SCREW K2-39 DRGT26HD3KLT SCREW K2-40 DRGT26HD3KLT SCREW K2-41 DRSN4-6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXGT3+F4FNLT SCREW K2-44 <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
K2-25 DFHR6291YB-0 FRONT BELT COVER K2-26 ⚠ DFKE0851ZB-0 HANDLE BASE L K2-27 ⚠ DFKE0852ZB-0 HANDLE BASE R K2-28 ⚠ DFKE0856ZB-0 SPEAKER CASE A K2-29 ⚠ DFKE0876ZB SPEAKER CASE B K2-30 ⚠ DFKM0518WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMV014ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFW0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D5KLT SCREW K2-40 DROT28+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXGT26+D4NLT TW SCREW K2-43 DXGT26+D4NLT SCREW K2-44 DFKH8009YA-0 HANDLE ASSY K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
K2-26 ♠ DFKE0851ZB-0 HANDLE BASE L K2-27 ♠ DFKE0852ZB-0 HANDLE BASE R K2-28 ♠ DFKE0856ZB-0 SPEAKER CASE A K2-29 ♠ DFKE0876ZB SPEAKER CASE B K2-30 ♠ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D5KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT3+F4FNLT SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-45 DFHR78374ZAT DV BY WUSHION K2-46 </td <td>1 1 1</td>	1 1 1
K2-27 ⚠ DFKE0852ZB-0 HANDLE BASE R K2-28 ⚠ DFKE0856ZB-0 SPEAKER CASE A K2-29 ⚠ DFKE0856ZB SPEAKER CASE B K2-30 ⚠ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD217ZZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWD145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D5KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G74ZAT PW SW CUSHION K2-47 DFHR3G374ZAT PU LED SHEET K2-48 <td>1 1 1</td>	1 1 1
K2-28 ⚠ DFKE0856ZB-0 SPEAKER CASE A K2-29 ⚠ DFKE0876ZB SPEAKER CASE B K2-30 ⚠ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY05037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP014SYA FPC K2-38 DRH0118ZAT SCREW K2-39 DRQT26+D5KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT26+D4NLT TW SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT SOREW K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G43ZAT LOD HINGE SPACER K2-47 DFHR8365ZA P LED SHEET </td <td>1 1</td>	1 1
K2-29 ⚠ DFKE0876ZB SPEAKER CASE B K2-30 ⚠ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D3KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSM4+6FKLT SCREW K2-41 DRSM4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G974ZAT PW SW CUSHION K2-47 DFHR80367ZA P LED SHEET K2-49 DFHR60569YA-0 HANDLE ARM BUSH <tr< td=""><td>1 1</td></tr<>	1 1
K2-30 ▲ DFKM0516WA-0 TOP CASE K2-31 DFMD2170ZA KENSINGTON PLATE K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT ACTOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP014SYA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D5KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT3+F4FNLT SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G74ZAT PW SW CUSHION K2-47 DFHR3G43ZAT LCD HINGE SPACER K2-48 DFHR3G97ZA P LED SHEET K2-49 DFHR6039YA-0 HANDLE ARM BUSH K3-6	1
K2-31	1
K2-32 DFMD2172ZA HEAT PIPE ANGLE A K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D3KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G74ZAT PW SW CUSHION K2-47 DFHR3K43ZAT LCD HINGE SPACER K2-48 DFHR3E97ZA P LED SHEET K2-49 DFHR6356ZA POWER SW LED PANEL TW K2-50 DFHR6089YA-0 HANDLE ARM BUSH K3 Δ DFKF817YA-0 BOTTOM CASE ASS'Y	1
K2-33 DFMY0414ZA CPU HEAR PIPE RUBBER K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ010ZZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D3KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXQT3+F4FNLT SCREW K2-43 DXQT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G74ZAT PW SW CUSHION K2-47 DFHR3K43ZAT LCD HINGE SPACER K2-48 DFHR3E97ZA P LED SHEET K2-49 DFHR60356ZA POWER SW LED PANEL TW K2-50 DFHR6089YA-0 BOTTOM CASE ASS'Y K3-1 △ DFKF0271YA-0 BOTTOM CASE K3-2 DFMD2173ZA HEAT PIPE ANGLE A	1
K2-34 DFMY5037ZA HEAT PIPE UNIT A(TOP) K2-36 DFUQ0102ZA POTRE SPRING K2-37 DFWP0145YA FPC K2-38 DRHM0118ZAT SCREW K2-39 DRQT26+D3KLT SCREW K2-40 DRQT26+D5KLT SCREW K2-41 DRSN4+6FKLT SCREW K2-42 DXQT26+D4NLT TW SCREW K2-43 DXGT3+F4FNLT SCREW K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-44 DFKH8009YA-0 HANDLE ASS'Y K2-45 DFHP7140ZAT DOUBLE SIDE TAPE K2-46 DFHR3G74ZAT PW SW CUSHION K2-47 DFHR3K43ZAT LCD HINGE SPACER K2-48 DFHR6356ZA P OWER SW LED PANEL TW K2-49 DFHR6356ZA P OWER SW LED PANEL TW K2-50 DFHR6089YA-0 HANDLE ARM BUSH K3 △ DFKF8170YA-0 BOTTOM CASE ASS'Y K3-1 △ DFKF0271YA-0 BOTTOM CASE K3-2 DFMD2173ZA HEAT PIPE ANGLE B <t< td=""><td>1 '</td></t<>	1 '
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K3-1 ⚠ DFKF0271YA-0 BOTTOM CASE K3-2 DFMD2172ZA HEAT PIPE ANGLE A K3-3 DFMD2173ZA HEAT PIPE ANGLE B K3-4 DFMY0414ZA CPU HEAR PIPE RUBBER K3-5 DFMY0437ZA HEAT PIPE RUBBER B K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	4
K3-2 DFMD2172ZA HEAT PIPE ANGLE A K3-3 DFMD2173ZA HEAT PIPE ANGLE B K3-4 DFMY0414ZA CPU HEAR PIPE RUBBER K3-5 DFMY0437ZA HEAT PIPE RUBBER B K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	1
K3-3 DFMD2173ZA HEAT PIPE ANGLE B K3-4 DFMY0414ZA CPU HEAR PIPE RUBBER K3-5 DFMY0437ZA HEAT PIPE RUBBER B K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	1
K3-4 DFMY0414ZA CPU HEAR PIPE RUBBER K3-5 DFMY0437ZA HEAT PIPE RUBBER B K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	1
K3-5 DFMY0437ZA HEAT PIPE RUBBER B K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	2
K3-6 DFMY5038YA HEAT SINK UNIT C K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	2
K3-7 DFUS0324ZA MP ESD SPRING K3-8 DRQT26+D3KLT SCREW	1
K3-8 DRQT26+D3KLT SCREW	1
	1
K3-9 DXQT26+D4NLT TW SCREW	6
	2
K4 DFGE0087ZA-0 BOTTOM COVER SHEET D	1
K5 DFGE0138ZA BOTTOM CASE SHEET	1
K9 DFWV80A0403 LCD FRONT CABINET/TS PANEL ASS'Y	1
K9-1 /\ DFKF8171VA-0 LCD FRONT ASS'Y	-
K9-1-1 DFBH1180ZB HINGE ASS'Y R	
	1
1	-
K9-1-3 DFHR3E61YA TS DUMPER PC	8
K9-1-4 DRYN4+J10KLT SCREW	2
K9-2 DFWV84A0310 TOUCH SCREEN PANEL KIT	<u> </u>
K9-2-1-1 DFHR9068ZA PROTECTIVE FILM	<u> </u>
K9-2-2 DFHP7246ZA TS FIXED TAPE	1
K9-2-3 DFHR3695ZA TS FPC SPACER	1
K9-3 DFHE0843ZA LCD MAGNET	+
K9-4 DFHG1929ZA MAGNET CUSHION	1
K10 DFBS8003ZA-0 LCD LATCH ASS'Y	1
K10-1 DFBS0073ZA-0 LCD LATCH	1 1
K10-2 DFHR6313ZA LCD LATCH SLIDER	1 1 1
K11 DFDF5024ZA LCD LATCH SHAFT	1 1 1 1 1
K12 DFUN0083ZA LCD LATCH SPRING	1 1 1

K13		DFWV80C0513	LCD REAR CABINET ASS'Y	1
K13-1	A	DFKM8184ZA-0	LCD REAR ASS'Y	1
K13-1-1	$\frac{\frac{2}{\sqrt{N}}}{\sqrt{N}}$	DFKM0517ZA-0	LCD REAR CAB	1
K13-2		DFGB0131YA-0	PANASONIC BADGE	1
K16		DFHG1886ZA	LCD CABLE COVER CUSHION	1
K17		DFHG1887ZA	KBD CABLE COVER CUSHION	1
K18		DFHG1888ZA	DIMM COVER CUSHION	1
K19		DFHG1890ZA	ANT CABLE CUSHION	1
K21		DFHR3E98ZA	KB WP SHEET	1
K22		DFHR3E99ZA	ANT CABLE SHEET	1
K25		DFHR3G26ZA	BOTTOM TOP SPACER SHEET A	3
K26		DFHR3G27ZA	BOTTOM TOP SPACER SHEET B	1
K27		DFHR6270YA	DIMM STOPPER BASE	1
K28		DFHR6296ZA	DIMM COVER SPACER	1
K29	\wedge	DFKE0857ZA-0	LCD CABLE COVER	1
K30	$\frac{\frac{2}{1}}{1}$	DFKE0858YC-0	KB CABLE COVER	1
K31	<u> </u>	DFKE0859ZB-0	DIMM COVER	1
K32		DFKE0873ZB-0		1
K33	\triangle	DFKE0873ZB=0	HINGE COVER L HINGE COVER R	1
K34	<u> </u>	DFMD2177ZA	ANTENNA CABLE PLATE	1
K35		DFMX0634ZA	CD EDGE SHEET	7
K36		DFMX0999ZA		6
K38		DFMX0999ZA	RJ11 CABLE FIX SHEET W-LAN HEAT RUBBER	1
K40		DFHR3E83YA	CABLE TAPE	2
K41		DFMD7B13ZA	GPS BT ANGLE	1
K42		DFMX1260YA	GPS INS SHEET A	<u>'</u>
K44		DFGX0457ZB-0	LCD CONER COVER L	1
K45		DFGX0458ZB-0	LCD CONER COVER R	1
K46		DFGX0459ZB-0	LCD CONER SIDE COVER L	1
K47		DFGX0460ZB-0	LCD CONER SIDE COVER R	1
K49		DFHG1881ZA	LCD CABLE BUSH	1
K50		DFHG1884ZA	LCD DROP HOLDER	2
K52		DFHG1942ZA	REAR SCREW SHEET	1
K53		DFHR3159ZA	TOP CASE SHEET	1
K54		DFHR3F07XA	LCD CABLE WP SHEET	1
K56		DFHR7968ZA	CDD SHEET	1
K57	Λ	DFKE0871ZA-0	W-LAN ANT COVER L	1
K58		DFKE0872ZA-0	W-LAN ANT COVER R	1
K59	<u> </u>	DFMC0685ZA	LCD CONDUCTIVE TAPE	2
K60		DFMC0863ZA	INV SHIELD CASE	1
K61		DFMC0873ZA	INV MIL SHIELD	1
K62		DFMC0874YA	INV SHEILD TAPE	1
K63		DFMC0876ZA	INV SHIELD CASE OUTSIDE	1
K65		DFMX1241ZB	INV CASE	1
K70		DFHP7261XA	KB SPACER TAPE	1
K71		DFHR3E65VA	KB SPACER SHEET	1
K74		DFHR6260ZB-0	KB COVER	1
K75		DFMD7B38ZB-0	KB BACK PLATE	1
K76		DFQT0045ZA	ENERGY STAR LABEL	1
K77		DFQT9A29ZA	WINDOWS VISTA	1
K78		DFQT0048ZA	CENTRINO CORE2DUO LABEL	1
K79		DFGB0165YA-0	TOUGH BADGE NEW	1
K80	\wedge	DFGT1260ZA	RATING SHEET MK2 US	1
K81		DFGE0151ZA-0	WM COVER 30	1
K82		DFGP0201ZA-0	PALM TOP SHEET	1
K83		DFHE1037ZA	DC GASKET	1
K84		DFHG1901ZA-0	TOUCH PAD SW RUBBER	1
K85		DFHG370ZA	FOOT RUBBER	4
K86		DFHM0396ZA	BATT CN PIN	2
			•	

KOO	DFHR3619ZA	LEDVC CDA OED CHEET	- 1
K90		LEDX6 SPACER SHEET	
K91	DFHR3636ZA	CABLE HOLD SHEET	
K92	DFHR3643ZA	TP BOTTOM TAPE	
K93	DFHR3E67ZA	PAD WP SHEET	1
K94	DFHR3E93VA	1394 SHEET	1
K96	DFHR3F46ZA	ICH SHEET	1
K97	DFHR3F49ZA	CABLE TAPE 5X18	5
K99	DFHR3F87YA	PAD PROTCT SHEET	1
K100	DFHR3G02ZA	SERIAL COVER SPACER	1
K101	DFHR3G03ZA	SERIAL WP SHEET	1
K102	DFHR3G04ZA	USB COVER SPACER	1
K103	DFHR3G05ZA	USB WP SHEET	1
K104	DFHR3G09ZA	SERIAL INSIDE SPACER	1
K105	DFHR3G10ZA	USB INSIDE SPACER	1
K106	DFHR3G25ZA	TP FPC SHEET	1
K107	DFHR3G32ZA	BATTRY SLIDE SHEET	1
K108	DFHR3G41ZA	BATT CUSHION	1
K109	DFHR6355ZA	TP SW KNOB IN	
K100	DFHR6246ZA	HDD GUIDE	
K111	DFHR6247ZB	BATT GUIDE	1
K112	DFHR6253YA-0	SERIAL COVER	
K113	DFHR6254YA-0	USB COVER	
K114	DFHR6255YA-0	DC-IN COVER	
K116	DFHR6259YC-0	PALM TOP COVER	
K117	DFHR6295ZA	HDD CABLE COVER	1
K118	DFHR7953ZA	LAN SHEET	2
K119	DFHR8521ZA	BATT CN PIN CUSHION	2
K121	DFMD4066ZB-0	DC USB COVER PLATE	1
K122	DFMD4067ZB-0	SERIAL COVER PLATE	1
K123	DFMD4069ZA	ICH PLATE	1
K124	DFMD7B00ZA	BATT HDD CN ANGLE	1
K129	DFMX1006ZA	CABLE SHEET	1
K130	DFMX1256ZA	TP INS SHEET	1
K131	DFHG1403YA-0	COIN BATTERY CUSHION	1
K132	DFHG1467ZA	LEAD SW CUSHION	
K133	DFHP7275ZA	CN TAPE L	<u>_</u>
K134	DFHP7276ZA	CN TAPE S	
K135	DFHR3E94ZA		
K137	DFHR3F59ZA	DMD CABLE SHEET MAIN PCB SPACER	<u>'</u>
K138	DFHR3G11ZA	CN SHEET	
K139	DFHR3G47ZA	USB SCREW COVER	
K140	DFHR3G48ZA	USB SCREW COVER B	1
K141	DFHR6261ZA	MODEM LAN CASE	1
K142	DFHR6272ZA	MP GUIDE	1
	DFKE0895YA	MAIN CHASSIS	1
K144	DFMC0875ZA	MAIN CHASSIS SHIELD	2
K146	DFMD7B22ZA	CN PLATE	1
K148	DFMX0635ZB	FFC CN STOPPER	3
K149	DFMX0702ZA	FFC CN STOPPER PAD	2
K153	DFMX1280ZA	EXP FPC SHEET	2
K157	DFHR3F53ZA	IO PWB SHEET	1
K161	DFHP7118ZA	TAPE	1
K163	DFHR3G93ZA	DC-IN WP SHEET	1
K1031	DFHR3H16ZA	REAR CABLE SHEET L	1
K1032	DFHR3H17ZA	REAR CABLE SHEET R	1
K1032	DFNW2701ZA	TOP WP WASHER	
K1122			I
	DFHR3741ZA	FFC CN STOPPER	<u></u>
K1151 K1155	DFMC0891ZA DFMY3257YA	LCD CABLE SHIELD TAPE	<u>1</u> 1
		2G DIMM HEAT PLATE	- 1

K1201	DFHR3K09ZA	LCD CABLE GUIDE	1
K1202	DFHR3H39YA	LCD CABLE CLAMP	1
K1203	D4CZY103A003	THERMISTOR	1
K1204	DFHE0915ZA	EMI SHEET 10X20	1
K1205	DFHG830ZA	CON SPACER	1
K1206	DFHR3F89ZA	MCH SHEET	1
K1207	DFHR3K18ZA	ANT CABLE WP SHEET	1
K1208	DFMY0486ZA	ICH MCH HEAT RUBBER	2
K1209	DFMY0487ZA	CPU HEAT RUBBER	1
K1210	DFHE1106ZA	KBD GASKET	1
K1211	DFHR6354ZA-0	MIC JACK HOLDER	1
K1212	DFHG2077ZA	COIN BATT CUSHION	1
K1213	DFQT0055YA	COA SERIAL LAMINATE	1
K1214	DFMX0383TA	INSULATION PARTS	10
N1	DRHM0002ZA	SCREW	5
N2	DRHM5054XA	SCREW	8
N3	DRQT2+G6FKL	SCREW	2
N6	DRQT26+E4FKL	SCREW	37
N7	DRSB26+10HKL	SCREW	13
N8	DRSB3+8FKL	SCREW	6
N9	DRYN4+J10FKL	SCREW	4
N10	DXSB4+15FNMB	SCREW	2
N11	DFHE5025XA	SCREW	10
N12	DXQT2+F3FNL	SCREW	4
N13	DRSB4+10FKL	SCREW	2
N14	DFHE5058ZB	SCREW	4
N15	DRHM5104ZA	SCREW	3
N16	DRQT26+E5FKL	SCREW	7
N17	DRQT26+E6FKL	SCREW	7
N18	DRSB26+8HKL	SCREW	1
N19	DRSN2+10FNL	SCREW	2
N20	DXQT2+D4FNL	SCREW	4
N21	DXQT2+E12FNL	SCREW	2
N22	DXQT2+G4FNL	SCREW	8
N29	DRQT26+E3FNL	SCREW	27
N30	DXHM0057ZA	SCREW	2

Replacement Parts List

Note: Important Safety Notice
Components identified by mark have special characteristics important for safety.
When replacing any of these components use only manufacturer's specified parts.

CF-30FTSAZAM

REF. NO and AREA	PART NO.	DESCRIPTION	Q'TY
		2233	
MAIN PCB			
C 1, 2, 3, 5, 6, 7, 10, 11,	F1J0J106A013	CAPACITOR, 6.3V, 10µF	88
12, 14, 15, 16, 18, 19,	1 1000 100/1010	7.1. 7.0.1. 0.0.1, 10p.	
20, 22, 23, 24, 27, 28,			
29, 30, 31, 32, 33, 34,			
35, 36, 37, 38, 39, 40,			
44, 56, 74, 75, 78, 79,			
84, 98, 100, 102, 104,			
108, 115, 122, 123, 130,			
132, 134, 136, 144, 146,			
148, 150, 174, 177, 182,			
184, 195, 199, 214, 217,			
218, 219, 238, 239, 246,			
269, 274, 275, 288, 350,			
373, 374, 378, 394, 404,			
C 4, 58, 86, 88, 114, 183,	EEFCX0D221R	CAPACITOR, 2V, 220µF	7
191	LLI ONODZZIIK	ολι λοποις 2ν, 22ομι	,
C 8, 9, 13, 17, 21, 25, 46,	F1G1C104A042	CAPACITOR, 16V, 0.1µF	175
47, 48, 49, 50, 54, 57,			
62, 66, 69, 70, 71, 76,			
85, 87, 95, 106, 107,			
112, 116, 117, 118, 125,			
126, 127, 128, 131, 133,			
135, 137, 139, 140, 141,			
142, 145, 147, 149, 151,			
170, 171, 173, 175, 176,			
179, 185, 186, 187, 188,			
189, 190, 192, 193, 194,			
196, 197, 207, 223, 226,			
232, 234, 236, 237, 240,			
241, 242, 243, 245, 247,			
248, 249, 250, 251, 252,			
253, 254, 255, 256, 257,			
258, 259, 260, 261, 262,			
263, 264, 265, 267, 268,			
276, 277, 278, 279, 281,			
282, 289, 291, 295, 298,			
302, 306, 317, 318, 319,			
320, 326, 327, 328, 329,			
330, 331, 332, 333, 334,			
335, 336, 338, 344, 345,			
346, 347, 348, 349, 392,			
403, 407, 409, 410, 411,			
413, 414, 415, 416, 418,			
419, 420, 433, 436, 437,			
438, 439, 440, 441, 445,			
448, 449, 451, 452, 461,			
466, 474, 478, 479, 480,			
481, 482, 485, 489, 490,			
496, 531, 533, 580, 581,			
C 45, 504, 537, 619, 638	F1G1H222A496	CAPACITOR, 50V, 2200pF	5
C 51, 52, 53, 61, 67, 89,	F1G0J474A001	CAPACITOR, 6.3V, 0.47µF	7

C 55, 72, 91, 152, 153, 154, 155, 200, 201, 202, 203, 211, 215, 229, 280, 299, 309, 313, 340, 397, 399, 400, 405, 406, 412, 422, 423, 435, 443, 468, 519, 525, 557, 569, 574, 575, 579	F1G1E103A062	CAPACITOR, 25V, 0.01μF	37
C 59, 60, 103, 105, 110, 113, 119, 120, 375, 383, 384	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	11
C 63, 65, 73, 77, 80, 81, 99, 101, 172, 178, 180, 181, 212, 216, 358, 637	F1G0J105A001	CAPACITOR, 6.3V, 1µF	16
C 68, 82, 83, 90, 92, 94, 111, 121, 198, 213	F1J0J226A051	CAPACITOR, 6.3V, 22µF	10
C 93, 205, 209, 230, 233, 235, 244, 270, 271, 272, 273, 284, 301, 305, 307, 343, 352, 387, 389, 390, 393, 408, 477, 527, 603, 617, 618, 642, 644	F1H1A1050015	CAPACITOR, 10V, 1μF	29
C 156, 157, 293, 294	F1G1H150A542	CAPACITOR, 50V, 15pF	4
C 162, 163, 164, 165, 166, 167, 168, 169, 224, 225, 353, 354, 355, 357, 359, 360, 363, 364, 371, 372, 376, 377, 395	F1G1A104A014	CAPACITOR, 10V, 0.1μF	23
C 204	F1G1H4R0A543	CAPACITOR, 50V, 4pF	1
C 206	F1G1H3R0A543	CAPACITOR, 50V, 3pF	1
C 208, 385, 632, 633, 634	F1H1A225A039	CAPACITOR, 10V, 2.2µF	5
C 227, 228	F1G1H2R0A543	CAPACITOR, 50V, 2pF	2
C 231, 573	F1G1C473A004	CAPACITOR, 16V, 0.047µF	2
C 266	F1L3D102A003	CAPACITOR, 2000V, 1000pF	1
C 285, 339, 341, 342, 453, 454, 455, 456, 457, 458, 459, 460, 462, 471, 473, 475, 493, 497, 498, 500, 521, 540, 542, 544, 547, 561, 564, 568, 584, 625, 626, 627, 628, 630, 635, 640	F1G1H102A496	CAPACITOR, 50V, 1000pF	36
C 297, 507	F1J1E334A081	CAPACITOR, 25V, 0.33µF	2
C 300, 311, 312	F1G1H271A495	CAPACITOR, 50V, 270pF	3
C 321, 322, 323, 324, 325, 587, 588	F1J1E105A080	CAPACITOR, 25V, 1μF	7
C 337, 361, 426, 427, 518, 543, 559, 620	F1G1H1010005	CAPACITOR, 50V, 100pF	8
C 351, 396, 476, 483, 484, 486, 505, 506, 524, 545, 566, 643	F1J0J475A009	CAPACITOR, 6.3V, 4.7μF	12
C 365, 367, 370	F1G0J334A001	CAPACITOR, 6.3V, 0.33µF	3
C 379, 381, 672	F1L0J107A016	CAPACITOR, 6.3V, 100µF	3
C 380, 421, 516, 534, 551, 556, 597, 698	F1K1E1060001	CAPACITOR, 25V, 10µF	8
C 382, 530, 532	EEFCD0D101ER	CAPACITOR, 2V, 100µF	3
C 386, 502, 523, 538, 548, 639	F1G1H221A495	CAPACITOR, 50V, 220pF	6
C 388, 391	F1H1A474A028	CAPACITOR, 10V, 0.47µF	2
C 450, 499, 520, 529, 536, 539, 560, 567, 595, 598, 600, 602, 604, 605	F1H1H104A748	CAPACITOR, 50V, 0.1μF	14
	F1H1H104A748 F1G1A683A014	CAPACITOR, 50V, 0.1µF CAPACITOR, 10V, 0.068µF	2

C 491, 562, 621	F1G1H470A542	CAPACITOR, 50V, 47pF	3
C 492, 629	F1G1H151A495	CAPACITOR, 50V, 150pF	2
C 494, 624	F1H1H1830001	CAPACITOR, 50V, 0.018µF	2
C 495, 631	F1G1H561A496	CAPACITOR, 50V, 560pF	2
C 501, 570, 623	F1G1H331A496	CAPACITOR, 50V, 330pF	3
C 508, 509, 510, 526, 571,	F1L1E106A017	CAPACITOR, 25V, 10µF	9
596, 606, 614, 615	1 1212100/1017	οπ ποποικ, 20 V, Τομι	Ĭ
C 512, 513, 514, 612	EEFSX0D471XE	SPCAP	4
C 515, 552	EEFCD0D151ER	CAPACITOR, 2V, 150µF	2
C 517, 546, 558, 616	F1H1C224A074	CAPACITOR, 16V, 0.22µF	4
C 522, 541, 565, 641	F1G1H220A542	CAPACITOR, 50V, 22pF	4
C 549	F1G1H472A496	CAPACITOR, 50V, 4700pF	1
C 553, 554	EEFCX0J101R	CAPACITOR, 6.3V, 100µF	2
C 563	F1G1H471A496	CAPACITOR, 50V, 470pF	1
C 572	EEFCD0G101ER	CAPACITOR, 4V, 100µF	1
C 577	EEFCX0G151R	CAPACITOR, 2V, 150µF	1
C 601	F1G1H152A496	CAPACITOR, 50V, 1500pF	1
C 607, 608, 609	DCUI1C106HDB	CAPACITOR, 16V, 10µF	3
C 645, 646, 647, 648	F1J2A103A018	CAPACITOR, 100V, 0.01µF	4
C 651, 653, 654, 655, 656,	F1H0J1050022	CAPACITOR, 6.3V, 1µF	23
657, 658, 659, 660, 661,	1 11100 1000022	σ. π. ποτι στι, σ.στ, τμι	
662, 663, 664, 666, 668,			
669, 670, 671, 675, 676,			
677, 679, 680	E4 10 14750040	0.0000000000000000000000000000000000000	
C 652, 674, 682, 683, 684,	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	8
685, 686, 687 CF 1, 4	D4CC1103A038	THERMISTOR	2
CN 1	K1MN50AA0018	CONNECTOR	1
CN 2, 5, 6	K1MY40A00001	CONNECTOR	3
CN 2, 5, 6	K1KA14AA0266	CONNECTOR	1
CN 4, 29	K1MN12BA0134	CONNECTOR	2
CN 7, 8, 11, 30	K1MY40BA0220	CONNECTOR	4
CN 7, 6, 11, 30	K1KY10BA0084		
CN 10		CONNECTOR CONNECTOR	1
CN 10	K1MN80BA0246		
	K1MY30AA0158	FPC CONNECTOR	1
CN 13	K1MY13BA0102	CONNECTOR	1
CN 14	K1MY16BA0097	CONNECTOR	1
CN 15	K1MY07BA0096	CONNECTOR	1
CN 16	K1KB30AA0049	CONNECTOR	1
CN 17	K1KA30BA0060	CONNECTOR	1
CN 18	K1MN08BA0134	CONNECTOR	1
CN 19	K1KA02AA0262	CONNECTOR	1
CN 20	K1KA08AA0266	CONNECTOR	1
CN 21	K1MYL0B00003	CONNECTOR	1
CN 22	K1MYL0B00004	CONNECTOR	1
CN 24	K1KY12A00004	CONNECTOR	1
CN 25	K1MN10BA0134	CONNECTOR	1
CN 26, 45	K1KA02BA0014	CONNECTOR	2
CN 28	K1FY104B0009	CONNECTOR	1
CN 31	K1KA12BA0014	CONNECTOR	1
CN 37	K1MY52BA0190	CONNECTOR	1
CN 46	K1KA02AA0299	CONNECTOR	1
CN 47	K1MY24BA0311	FPC CONNECTOR	1
D 6, 7, 19, 58, 59	MA2J72900L	DIODE	5
D 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22	B0ADCJ000041	DIODE	13
D 24, 46, 47, 48, 49	B0JCPD000023	DIODE	5
D 25, 29, 30, 53, 60	B0JCMD000010	DIODE	5
D 26, 28, 31	B0ADCJ000025	DIODE	3
			ı

D 39, 55 MASS132EOL DIODE 2 D 40 B2ABAM000002 DIODE 1 D 42 MASS111-TX DIODE 1 D 43, 45, 50, 67, 64 BAUDBE000007 DIODE 1 D 51 MAZB120MIL DIODE 1 D 52 MAZB180MIL DIODE 1 D 54 BOKB0000004H DIODE 1 T 54, 7 A. K9H020200003 FUSE, 5A, 32V 3 F 25, 6, 8, 12 A. K9H020200003 FUSE, 5A, 32V 5 F 3 A. K9H020200003 FUSE, 5A, 32V 5 F 10 A. K9H02200003 FUSE, 5A, 32V 1 F 10 A. K9H02200003 FUSE, 5A, 32V 1 F 11 A. K9H0200003 FUSE, 5A, 32V 1 F 11 A. K9H0200003 FUSE, 5A, 32V 1 F 11 A. K9H0200003 FUSE, 5A, 32V 1 F 12 C. COBDORDONO30 FUSE, 5A, 32V 1 F 12 C. COBDORDONO30 FUSE, 1A, 32V 1 <	D 33, 34, 35, 36, 37, 38, 62, 63		MAZ80620ML	DIODE	8
D 42 MASS 111-TX DIODE 1 D 43, 45, 50, 57, 64 BOJDRE000002 DIODE 5 D 44 BOJDRE000007 DIODE 1 D 51 MAZB1200ML DIODE 1 D 52 MAZB1300ML DIODE 1 D 54 BOK900000034 DIODE 1 F 1, 4, 7 Å KSH902200003 FUSE, SA, 32V 3 F 2, 5, 6, 8, 12 Å KSH902200005 FUSE, SA, 32V 5 F 3 Å KSH902200002 FUSE, SA, 32V 1 F 10 Å KSH902200003 FUSE, SA, 32V 1 F 11 Å KSH123Y00001 FUSE, SA, 32V 1 I C 1 C2GBD0000038 PUSE, SA, 32V 1 I C 2 C1GB00002003 FUSE, SA, 32V 1 I C 2 C1GB00002000 FUSE, SA, 32V 1 I C 2 C1GB00002000 FUSE, SA, 32V 1 I C 2 C1GB0000200 CHIPSET 1 I C 2 C1GB00002000 CHIPSET 1			MA3S132E0L	DIODE	2
D 43, 45, 50, 57, 64 BØJDBE000007 DIODE 5 D 44 BØJDBE000007 DIODE 1 D 51 MAZ8120ML DIODE 1 D 52 MAZ81800ML DIODE 1 D 54 BØK8000000044 DIODE 1 F 1, 4, 7 Δ KSH602200003 FUSE, 5A, 32V 3 F 2, 5, 6, 8, 12 Δ KSH602200000 FUSE, 5A, 32V 5 F 3 Δ KSH402200003 FUSE, 5A, 32V 1 F 10 Δ KSH602300002 FUSE, 5A, 32V 1 F 11 Δ KSH02200003 FUSE, 5A, 32V 1 IC 1 C26BD0000038 FUSE, 5A, 32V 1 IC 1 C26BD0000038 PUB 1 IC 2 C1CB00002274 CHIPSET 1 IC 3 C0JBBZ000319 PUL 1 IC 4 C1CB00002274 IC CHIPSET ICH8M 1 IC 5 C1CB00002272 IAN CONTROLLER 1 IC 71,14 <td< td=""><td>D 40</td><td></td><td>B2ABAM000002</td><td>DIODE</td><td>1</td></td<>	D 40		B2ABAM000002	DIODE	1
D 44 BOJREGO0007 DIODE 1 D 51 MAZ81200ML DIODE 1 D 52 MAZ81200ML DIODE 1 D 54 BOKB000000044 DIODE 1 F 1, 4, 7 Å KSH602000003 FUSE, 5A, 32V 3 F 2, 5, 6, 8, 12 Å KSH20200003 FUSE, 2A, 32V 5 F 3 Å KSH402200003 FUSE, 2A, 32V 1 F 10 Å KSH402200003 FUSE, 2A, 32V 1 F 11 Å KSH402200003 FUSE, 2A, 32V 1 F 11 Å KSH4123Y00001 FUSE, 2A, 32V 1 IC 1 C26B0000038 PU 1 1 IC 2 C1CB00000292 CHIPSET 1 1 IC 3 C0JBR2000019 PUL 1 1 IC 4 C1CB00002721 CHIPSET 1 1 IC 5 C1CB00002721 CHIPSET 1 1 IC 7.114 C0JBAZD0002192 CONDECTRORRIA 1 1 IC 15	D 42		MA2S111-TX	DIODE	
D 51 MAZ81200ML DIODE 1 D 52 MAZ81800ML DIODE 1 D 54 BOK000000044 DIODE 1 F 1, 4, 7 Δ KSH502200003 FUSE, 5A, 32V 3 F 2, 5, 6, 8, 12 Δ KSH402200003 FUSE, 2A, 32V 5 F 3 Δ KSH402200003 FUSE, 4A, 32V 1 F 10 Δ KSH402300002 FUSE, 4A, 32V 1 F 11 Δ KSH123Y00001 FUSE, 4A, 32V 1 F 11 Δ KSH123Y00001 FUSE, 8A, 72V 1 I C 1 C258D0000038 CPU 1 I C 2 C1C800002802 CHIPSET 1 IC 3 C0JB82000319 PL 1 I C 4 C1C800002724 LAN CONTROLLER 1 I C 7,114 C0JBAZ002192 IC 2 IC 71,144 C0JBAZ002039 IC 1 I C 71,144 C0JBAZ000033 IC ICSPROM I C 11,12,13				-	5
D 52 MAZ81800ML DIODE 1 D 54 B0KB0000044 DIODE 1 F 1, 4, 7 Δ K6H00200003 FUSE, 5A, 32V 3 F 2, 5, 6, 8, 12 Δ K6H002000005 FUSE, 4A, 32V 1 F 10 Δ K6H002000007 FUSE, 4A, 32V 1 F 10 Δ K6H02000003 FUSE, 4A, 32V 1 I C 1 C26BD0000038 CPU 1 IC 1 C26BD0000038 CPU 1 IC 2 C1CB00002802 CHIPSET 1 IC 3 C0JBB20000039 PLL 1 IC 4 C1CE00002741 CHIPSET ICHBM 1 IC 5 C1CB00002732 LAN CONTROLLER 1 IC 7, 114 C0JBAZ002192 IC 2 IC 11, 12, 13 CODBALH00003 IC 2 IC 15 C1CB00002540 IC, TEMPERATURE CENSOR IC 1 IC 20 C3EBFY000005 EEPROM 1 IC 21 C0DBEEF000003					1
D 54 B0K600000044 DIODE 1 F 1, 4, 7 Δ MSH502200003 FUSE, 5A, 32V 3 F 2, 5, 6, 8, 12 Δ MSH2022000005 FUSE, 2A, 32V 5 F 3 Δ MSH8022000003 FUSE, 8A, 32V 1 F 10 Δ MSH802300002 FUSE, 8A, 32V 1 F 11 Δ MSH802300002 FUSE, 8A, 32V 1 IC 1 C2GBD0000038 CPU 1 IC 2 C1CB000002802 CHIPSET 1 IC 3 C0UBB2200319 PLL 1 IC 4 C1CB00002732 LAN CONTROLLER 1 IC 5 C1CB00002732 LAN CONTROLLER 1 IC 7, 114 C0UBAZ002192 IC 2 IC 15 C1CB000002540 IC, TEMPERATURE CENSOR IC 1 IC 21 C0DBEF00003 IC 1 IC 23 C0DBEYY00265 POWER MANAGEMENT SWTICH 1 IC 24 C0CDBEYY00266 POWER MANAGEMENT SWTICH 1					1
F.1.4, 7					1
F 2, 5, 6, 8, 12					
F3		Δ			
F 10	F 2, 5, 6, 8, 12	⚠	K5H202Z00005		5
F11					1
IC 1					1
IC 2		Δ	K5H123Y00001		1
IC 3	IC 1		C2GBD0000038	CPU	1
IC 4	IC 2		C1CB00002802	CHIPSET	1
IC 5	IC 3		C0JBBZ000319	PLL	1
IC 7, 114	IC 4		C1CB00002741	CHIPSET ICH8M	1
IC 11, 12, 13	IC 5		C1CB00002732	LAN CONTROLLER	1
IC 15	IC 7, 114		C0JBAZ002192	IC	2
IC 20	IC 11, 12, 13		C0DBALH00003	IC	3
IC 21	IC 15		C1CB00002540	IC, TEMPERATURE CENSOR IC	1
IC 23	IC 20		C3EBFY000005	EEPROM	1
IC 24	IC 21		C0DBEFE00003	IC	1
IC 25	IC 23		C0DBZYY00265	POWER MANAGEMENT SWTICH	1
IC 27	IC 24		C0DBZYY00016	IC	1
IC 28	IC 25		C0ZBZ0000978	IC	1
IC 28	IC 27		C3FBLY000048	FLASH MEMORY	1
IC 29	IC 28		C2CBJA000003	IC, MICON	1
IC 31, 86, 93 COJBASO00215 IC, GATE LOGIC 3 IC 32, 58, 59, 61, 62, 68, 69, 87, 103, 104, 105, 108, 109 IC AMP 1 IC 34, 35, 36 COEBH0000457 IC AMP 1 IC 38, 39 CODBZYY00026 IC, USB POWER SW 2 IC 40 CODBAYY00194 IC ADDRESS IC ADDR	IC 29		C0CBCBC00181		1
IC 32, 58, 59, 61, 62, 68, 69, 87, 103, 104, 105, 108, 109	IC 30		C1CB00002733	AUDIO CODEC	1
IC 32, 58, 59, 61, 62, 68, 69, 87, 103, 104, 105, 108, 109	IC 31, 86, 93		C0JBAS000215	IC, GATE LOGIC	3
IC 34, 35, 36 C0EBE000459 IC 3 IC 37, 78 C0EBH000457 IC 2 IC 38, 39 C0DBZYY00026 IC, USB POWER SW 2 IC 40 C0DBAYY00194 IC, DC/DC 1 IC 41 C0DBEFH00002 IC, REGULATOR 1 IC 42 C0EBE0000333 IC 1 IC 43, 44 C0EBH0000336 IC 2 IC 45 C0DBDJH00009 IC, LINER 1 IC 47, 113 C0JBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC IC 56 C0JBAE000321 IC, LOGIC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 70 C0ABBA000093 IC, OP AMP 1 IC 70 C0JBAD000236 IC, LOGIC 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 70 C0JBAD000236 IC, LOGIC 1 IC 70 C0JBAD000236 IC, LOGIC 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 70 C0JBAD000236 IC, LOGIC IC 70 IC 7	69, 87, 103, 104, 105,		C0JBAA000362		13
IC 37, 78	IC 33		C0ABZA000047	IC, AMP	1
IC 38, 39 CODBZYY00026 IC, USB POWER SW 2 IC 40 CODBAYY00194 IC, DC/DC 1 IC 41 CODBEFH00002 IC, REGULATOR 1 IC 42 COEBE0000333 IC 1 IC 43, 44 COEBH0000336 IC 2 IC 45 CODBDJH00009 IC, LINER 1 IC 47, 113 COJBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 COCBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 COJBAA000345 IC, LOGIC 4 IC 55, 110 COJBAB000624 IC 2 IC 56 COJBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 COJBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA00093 IC, OP AMP 1 IC 71 COJBAD000236 IC, LOGIC			C0EBE0000459		
IC 40 CODBAYY00194 IC, DC/DC 1 IC 41 CODBEFH00002 IC, REGULATOR 1 IC 42 COEBE0000333 IC 1 IC 43, 44 COEBH0000336 IC 2 IC 45 CODBDJH00009 IC, LINER 1 IC 47, 113 COJBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 COCBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 COJBAA000345 IC, LOGIC 4 IC 55, 110 COJBAB000624 IC 2 IC 56 COJBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 COJBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 COABBA000093 IC, OP AMP 1 IC 71 COJBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM <	IC 37, 78		C0EBH0000457	IC	2
IC 41 CODBEFH00002 IC, REGULATOR 1 IC 42 COEBE0000333 IC 1 IC 43, 44 COEBH0000336 IC 2 IC 45 CODBDJH00009 IC, LINER 1 IC 47, 113 COJBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 38, 39		C0DBZYY00026	IC, USB POWER SW	2
IC 42 C0EBE0000333 IC 1 IC 43, 44 C0EBH0000336 IC 2 IC 45 C0DBDJH00009 IC, LINER 1 IC 47, 113 C0JBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA00093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 40		C0DBAYY00194	IC, DC/DC	1
IC 43, 44 C0EBH0000336 IC 2 IC 45 C0DBDJH00009 IC, LINER 1 IC 47, 113 C0JBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1			C0DBEFH00002	IC, REGULATOR	1
IC 45 CODBDJH00009 IC, LINER 1 IC 47, 113 COJBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA00093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1			C0EBE0000333		
IC 47, 113 C0JBAA000381 IC, LOGIC 2 IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 43, 44		C0EBH0000336	IC	2
IC 50 C1CB00002723 CARDBUS CONTOLLER 1 IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 45		C0DBDJH00009	IC, LINER	1
IC 51 C1DB00001159 IC, PERIPHERAL LSI 1 IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 47, 113		C0JBAA000381	IC, LOGIC	2
IC 52 C0CBCBC00137 IC, REGULATOR 1 IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 50		C1CB00002723	CARDBUS CONTOLLER	1
IC 54, 63, 64, 66 C0JBAA000345 IC, LOGIC 4 IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 51		C1DB00001159	IC, PERIPHERAL LSI	1
IC 55, 110 C0JBAB000624 IC 2 IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 52		C0CBCBC00137	IC, REGULATOR	1
IC 56 C0JBAE000321 IC, LOGIC 1 IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 54, 63, 64, 66		C0JBAA000345	IC, LOGIC	4
IC 65, 72, 96, 101, 107 C0JBAB000621 IC, LOGIC 5 IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 55, 110		C0JBAB000624	IC	2
IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 56		C0JBAE000321	IC, LOGIC	1
IC 67 C1CB00002790 IC, SECURITY CHIP 1 IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 65, 72, 96, 101, 107	1	C0JBAB000621	IC, LOGIC	5
IC 70 C0ABBA000093 IC, OP AMP 1 IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1			C1CB00002790	IC, SECURITY CHIP	1
IC 71 C0JBAD000236 IC, LOGIC 1 IC 76 C3EBDY000005 IC, EEPROM 1	IC 70		C0ABBA000093	·	1
IC 76 C3EBDY000005 IC, EEPROM 1	IC 71	1	C0JBAD000236	·	1
·				·	1
		1			1

IC 79, 80, 88		C0JBAZ002836	IC, LOGIC	3
IC 81		C0DBGYY00423	LINEAR REGULATOR	1
IC 83, 84		C0JBAZ002837	IC, LOGIC	2
IC 85		C0JBAC000367	IC, LOGIC	1
IC 89		C0DBZYY00017	IC	1
IC 92		C1CB00002497	IC, USB HUB	1
IC 94, 95		C0JBAZ002372	IC, LOGIC	2
IC 94, 93		AN12945A-VB	IC, AUDIO AMP	1
IC 100		C0JBAC000363	GATE LOGIC	1
IC 102		C0CBCAC00161 C0JBAZ002387	IC LOGIC	1
IC 106			IC, LOGIC	1
IC 126		C0DBAYY00282	DC/DC CONTROLLER FOR GMCH	1
IC 127		C0JBAR000515	IC, Q-SWITCH	1
IC 128	_	C0DBGYY00422	LINEAR REGULATOR	1
JK 1	Δ	K2EEYB000001	JACK	1
L 1		G1CR82M00006	COIL	1
L 5, 12, 27, 32, 34, 48, 51, 54, 60, 64, 68, 69, 70, 71, 77		J0JJC0000015	INDUCTOR	15
L 8, 9		J0ZZB0000080	IDUCTOR, COMMON MODE FILTER	2
L 10, 11, 15, 16		J0JCC0000186	INDUCTOR	4
L 17		G1CR56ZA0140	INDUCTOR	1
L 18, 19, 21, 74		G1C4R7MA0240	CHOK COIL	4
L 20		G1C2R8MA0240	COIL	1
L 22		G1C100M00030	COIL	1
L 23, 53		J0JKC0000007	INDUCTOR	2
L 24		G1A160HA0032	COIL	1
L 25		G1BYYYY00009	INDUCTOR	1
L 26		J0MAB0000200	INDUCTOR	1
L 30, 47		G1C1R0Z00002	INDUCTOR	2
L 49, 50		G1C1R0MA0076	INDUCTOR	2
L 52		DDAZR100KTD	INDUCTOR	1
L 59		G1C91NM00001	INDUCTOR	1
PA 6	Λ	D4FB1R100015	PROTECTOR, 1.1A	1
Q 1, 36, 52, 53, 59, 66, 96, 123, 130, 131, 133, 135, 142, 144, 153		B1CFGD000023	TRANSISTOR	15
Q 7, 10, 18, 34, 39, 94,		XP0421300L	TRANSISTOR	7
Q 9, 12, 20, 47, 49, 127,		B1DHDC000028	TRANSISTOR	7
Q 13		2SB0766ARL	TRANSISTOR	1
Q 14, 25, 75, 76, 90, 99, 111, 112, 134, 145, 158		UNR9113J0L	TRANSISTOR	11
Q 16, 30, 31, 32, 33, 35, 37, 58, 69, 81, 82, 83, 85, 86, 87, 88, 89, 101, 102, 103, 104, 107, 108, 115, 119, 121, 126, 132, 138, 139, 141, 156, 157		UNR9213J0L	TRANSISTOR	33
Q 22, 23, 24, 48, 50, 64, 74, 77, 78, 91, 98, 109, 110, 117, 118, 120, 146,		UNR9214J0L	TRANSISTOR	18
Q 26, 28, 38, 51		B1DDED000004	TRANSISTOR, FET	4
Q 27, 80		B1MBFDG00001	FET	2
Q 40, 41, 42, 43, 44, 45, 137, 140		XP0411500L	TRANSISTOR	8
Q 54, 56, 60, 61, 67, 68, 71, 72, 84, 151, 152		B1CFRD000014	FET	11
Q 55, 57		B1CFRD000020	FET	2
Q 65, 73, 154		B1MBEDG00001	FET	3
Q 70, 93, 129		B1CFGD000003	TRANSISTOR	3

Q 79, 105, 106, 113, 114, 122, 124, 136	B1CHRD000001	TRANSISTOR	8
Q 92, 97	B1DHDD000031	TRANSISTOR, FET	2
Q 116	XP0421400L	TRANSISTOR	1
Q 125	B1MBEDA00008	TRANSISTOR	1
R 1, 2, 27, 39, 41, 43, 118, 190, 191, 262, 263, 378, 415	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	13
R 3	D1H85104A024	RESISTOR ARRAY	1
R 7, 31, 66, 68, 70, 480, 481, 518, 650, 657, 673	ERJ2RKF1001X	RESISTOR, 1/16W, 1KΩ	11
R 8, 32	ERJ2RKF2001X	RESISTOR, 1/16W, 2KΩ	2
R 9, 10, 30	ERJ2RKF1000X	RESISTOR, 1/16W, 100Ω	3
R 13, 15	ERJ2RKF27R4X	RESISTOR, 1/16W, 27.4Ω	2
R 14, 16, 35, 36	ERJ2RKF54R9X	RESISTOR, 1/16W, 54.9Ω	4
R 18	ERJ2RKF68R0X	RESISTOR, 1/16W, 68Ω	1
R 19, 23, 92, 97	ERJ2GEJ560X	RESISTOR, 1/16W, 56Ω	4
R 20	ERJ2RKF2000X	RESISTOR, 1/16W, 200Ω	1
R 21, 22, 33, 45, 56, 109, 146, 159, 161, 163, 164, 176, 182, 203, 204, 210, 241, 280, 282, 293, 296, 297, 330, 352, 366, 369, 430, 443, 444, 455, 461, 464, 474, 478, 484, 485, 486, 504, 595, 597, 647,	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	46
668, 680, 682, 684, 690 R 24	ERJ2RKF56R0X	RESISTOR, 1/16W, 56Ω	1
R 25	ERJ2GEJ240X	RESISTOR, 1/16W, 24Ω	1
R 26, 48, 49, 90, 91, 103, 107, 124, 144, 181, 183, 209, 224, 251, 252, 256, 258, 269, 270, 271, 272, 273, 274, 275, 278, 279, 281, 283, 291, 292, 294, 299, 302, 303, 344, 350, 373, 379, 380, 381, 384, 389, 391, 393, 411, 419, 420, 421, 424, 428, 431, 440, 441, 442, 445, 446, 448, 453, 470, 501, 506, 513, 522, 523, 524, 543, 549, 575, 576, 577, 608, 609, 649, 653, 672	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	75
R 28, 605, 606, 607, 615	ERJ2GEJ562X	RESISTOR, 1/16W, 5.6KΩ	5
R 29	ERJ2RKF2210X	RESISTOR, 1/16W, 221Ω	1
R 34, 81, 137, 177	ERJ2RKF24R9X	RESISTOR, 1/16W, 24.9Ω	4
R 55, 171, 338, 339	ERJ2GEJ203X	RESISTOR, 1/16W, 20KΩ	4
R 64, 65	ERJ2RKF20R0X	RESISTOR, 1/16W, 20Ω	2
R 67	ERJ2RKF3920X	RESISTOR, 1/16W, 392Ω	1
R 69, 626, 627	ERJ2RHD302X	RESISTOR, 1/16W, 3KΩ	3
R 71, 72, 127, 242, 244, 276, 286, 321, 331, 332, 351, 414, 694, 695, 696, 697	ERJ2GEJ330X	RESISTOR, 1/16W, 33Ω	16
R 73, 104, 112, 113, 259, 385, 390, 392, 417, 418, 432	D1H81034A024	RESISTOR ARRAY	11
R 74, 550	ERJ2RKF1301X	RESISTOR, 1/16W, 1.3KΩ	2
R 75	ERJ2RKF2371X	RESISTOR, 1/16W, 2370Ω	1
R 76, 77, 78	ERJ2RKF1500X	RESISTOR, 1/16W, 150Ω	3
R 79, 80, 422, 423	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KΩ	4
R 84, 86, 89, 156, 157,	ERJ2GEJ1R0X	RESISTOR, 1/16W, 1Ω	6
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R 85, 88, 245, 491, 492, 624, 632, 634	ERJ3GEY0R00V	RESISTOR, 1/16W, 0Ω	8
R 93, 94, 96, 98, 99, 101	D1HY5608A007	RESISTOR ARRAY	6
R 95, 100, 248	D1H85604A024	RESISTOR ARRAY	3
R 105, 106, 188, 189	D1H83304A024	RESISTOR ARRAY	4
R 111, 253, 334, 498, 499, 515, 516, 527, 528, 540, 541, 553, 554, 674, 675	ERJ2GEJ100X	RESISTOR, 1/16W, 10Ω	15
R 126, 148	D1H84724A024	RESISTOR ARRAY	2
R 128	D1H81504A024	RESISTOR ARRAY	1
R 129, 130, 185, 186, 187, 257, 264, 265, 266, 267, 268, 306, 307, 308, 437	D1HY1038A007	RESISTOR ARRAY	15
R 131	D1H81044A024	RESISTOR, 1/16W, 100KΩ	1
R 138	ERJ2RKF22R6X	RESISTOR, 1/16W, 22.6Ω	1
R 149, 395, 397, 477, 660	ERJ2GEJ471X	RESISTOR, 1/16W, 470Ω	5
R 151, 153	ERJ2RKF3241X	RESISTOR, 1/16W, 3240Ω	2
R 152, 154	ERJ2RKF4530X	RESISTOR, 1/16W, 453Ω	2
R 155, 178	ERJ2GEJ121X	RESISTOR, 1/16W, 120Ω	2
R 160	ERJ6GEYJ101V	RESISTOR, 1/10W, 100Ω	1
R 166, 169	ERJ2RKF3323X	RESISTOR, 1/16W, 332KΩ	2
R 172	ERJ2GEJ106X	RESISTOR, 1/16W, 10MΩ	1
R 173, 218, 454, 559, 560, 561, 562, 563	ERJ2GEJ105X	RESISTOR, 1/16W, 1MΩ	8
R 179	ERJ2GEJ331X	RESISTOR, 1/16W, 330Ω	1
R 184, 206, 214, 215, 231, 260, 426, 427, 435, 449, 579, 580, 625	ERJ2GEJ472X	RESISTOR, 1/16W, 4.7KΩ	13
R 192, 198, 217, 246, 304, 309, 310, 315, 342, 347, 353, 357, 359, 360, 382, 404, 405, 406, 407, 408, 433, 434, 451, 456, 457, 458, 459, 497, 514, 558, 602, 610, 611, 639, 671, 685, 686, 688, 699	ERJ2GEJ104X	RESISTOR, 1/16W, 100KΩ	39
R 193, 200, 219, 354, 361, 362, 363, 383, 410, 425, 539, 557, 600, 601, 613	ERJ2GEJ474X	RESISTOR, 1/16W, 470KΩ	15
R 216, 240, 298, 300, 301, 374, 375, 402, 429, 482, 564, 565, 566, 567, 568, 569, 631, 636, 676, 677	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	20
R 220	ERJ2RKF4871X	RESISTOR, 1/16W, 4.87KΩ	1
R 221, 222, 254, 290, 295, 327, 328, 345, 376, 377, 552	ERJ2RHD103X	RESISTOR, 1/16W, 10KΩ	11
R 223, 503, 551	ERJ2RHD303X	RESISTOR, 1/16W, 30KΩ	3
R 227, 228, 229, 230, 232, 233, 234, 235	ERJ2RKF49R9X	RESISTOR, 1/16W, 49.9Ω	8
R 236	D1H87504A024	RESISTOR ARRAY	1
R 249, 473	ERJ2RKF5101X	RESISTOR, 1/16W, 5.1KΩ	2
R 284	ERJ2GEJ150X	RESISTOR, 1/16W, 15Ω	1
R 287	ERJ2RKF5602X	RESISTOR, 1/16W, 56KΩ	1
R 288, 289, 305	ERJ2RKF3901X	RESISTOR, 1/16W, 3.9KΩ	3
R 311	ERJ2RHD3922X	RESISTOR, 1/16W, 39.2KΩ	1
R 312, 387	D1H84734A024	RESISTOR ARRAY	2
R 313, 547, 670	ERJ2RHD203X	RESISTOR, 1/16W, 20KΩ	3
R 317	ERJ2GEJ273X	RESISTOR, 1/16W, 27KΩ	1
R 320, 346	ERJ6GEY0R00V	RESISTOR, 1/10W, 0Ω	2
R 322, 335	ERJ2RKF2671X	RESISTOR, 1/16W, 2.67KΩ	2
R 324, 325, 475, 533, 534	ERJ2RKF5601X	RESISTOR, 1/16W, 5.6KΩ	5

R 336, 337	ERJ2GEJ333X	RESISTOR, 1/16W, 33KΩ	2
R 340, 341, 367, 371, 472,	ERJ2RHD104X	RESISTOR, 1/16W, 100KΩ	8
545, 582, 583		,,	_
R 348	ERJ2RKF1602X	RESISTOR, 1/16W, 16KΩ	1
R 349	ERJ2RKF9091X	CHIP RESISTOR	1
R 365	ERJ2RKD684X	RESISTOR, 1/16W, 680KΩ	1
R 368, 370, 655	ERJ2RKD154X	RESISTOR, 1/16W, 150KΩ	3
R 372	D1ZZ00000046	RESISTOR, 1W, 5mΩ	1
R 386, 450, 538, 588, 592, 593, 598, 599	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	8
R 388	D1H81014A024	RESISTOR ARRAY	1
R 394, 398, 438	ERJ2GEJ181X	RESISTOR, 1/16W, 180Ω	3
R 396, 399, 510	ERJ2GEJ221X	RESISTOR, 1/16W, 220Ω	3
R 400, 401	D1H82214A024	RESISTOR, 1/16W, 220Ω	2
R 416	D1H81004A024	RESISTOR ARRAY	1
R 452	ERJ2RKF1202X	RESISTOR, 1/16W, 12KΩ	1
R 466	ERJ2RKF5103X	RESISTOR, 1/16W, 510KΩ	1
R 467, 587	ERJ2RKF4702X	RESISTOR, 1/16W, 47KΩ	2
R 468, 654	ERJ2RKF6801X	RESISTOR, 1/16W, 6.80KΩ	2
R 469	ERJ2GEJ393X	RESISTOR, 1/16W, 39KΩ	1
R 471	ERJ2RKF1800X	RESISTOR, 1/16W, 180Ω	1
	ERJ3GEYJ1R0V	RESISTOR, 1/16W, 160Ω	4
R 476, 488, 489, 490			
R 479	ERJ2RHD222X	RESISTOR, 1/16W, 2.2KΩ	1
R 487, 645	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	2
R 493, 630	D1ZZ00000093	RESISTOR, 1W, 1mΩ	2
R 494, 495, 508, 512, 531, 536, 556	D1BDR033A099	RESISTOR, 1/3W, 0.033Ω	7
R 496, 509, 511, 529, 530, 532, 537, 555	D1BDR022A099	RESISTOR, 1/3W, 0.022Ω	8
R 500, 521, 542	ERJ2GEJ153X	RESISTOR, 1/16W, 15KΩ	3
R 502, 517, 544, 633, 640	ERJ3GEYJ100V	RESISTOR, 1/16W, 10Ω	5
R 505, 507	ERJ2RHD243X	RESISTOR, 1/16W, 24KΩ	2
R 519	ERJ2RHD752X	RESISTOR, 1/16W, 7.5KΩ	1
R 520, 526, 586	ERJ2RHD153X	RESISTOR, 1/16W, 15KΩ	3
R 525	ERJ2RHD472X	RESISTOR, 1/16W, 4.7KΩ	1
R 535	ERJ2RKF1302X	RESISTOR, 1/16W, 13KΩ	1
R 546	ERJ2RHD622X	RESISTOR, 1/16W, 6.2KΩ	1
R 548, 570, 637, 641, 642, 643	ERJ2GEJ223X	RESISTOR, 1/16W, 22KΩ	6
R 571, 572	ERJ6GEYJ122V	RESISTOR, 1/10W, 1.2KΩ	2
R 573, 574	ERJ6GEYJ222V	RESISTOR, 1/10W, 2.2KΩ	2
R 578, 581, 594, 596	ERJ2GEJ564X	RESISTOR, 1/16W, 560KΩ	4
R 584, 585	ERJ2RKF3302X	RESISTOR, 1/16W, 33KΩ	2
R 589, 590	ERJ2GEJ3R3X	RESISTOR, 1/16W, 3.3Ω	2
R 603	ERJ3GEYJ562V	RESISTOR, 1/16W, 5.6KΩ	1
R 604	D1BDR4700001	RESISTOR, 1/8W, 0.47Ω	1
R 612	ERJ2RKD114X	RESISTOR, 1/16W, 1.10KΩ	1
R 614	ERJ2RHD3652X	RESISTOR, 1/16W, 36.5KΩ	1 1
R 616	ERJ2GEJ154X	RESISTOR, 1/16W, 150KΩ	1
R 617, 618, 619	D1BDR1000002	RESISTOR, 1/16W, 130K2	3
R 620	RL1220SR15F	RESISTOR, 1/8W, 0.1 Ω	1
R 622	ERA3EKB1623V	RESISTOR, 1/16W, 1.13Ω	1
			1
R 623	ERA3EEB1692V	RESISTOR, 1/16W, 16.9KΩ	
R 628, 629	D1BDR068A100	RESISTOR, 0.068Ω	2
R 635	ERJ3GEYJ2R2V	RESISTOR, 1/16W, 2.2Ω	1
R 638	ERJ2GEJ303X	RESISTOR, 1/16W, 30KΩ	1
R 644	D1H8R0040009	JUMPER	1
R 648	ERJ2RKF4022X	RESISTOR, 1/16W, 40.2KΩ	1

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R 651, 656		ERJ2RKF6981X	RESISTOR, 1/16W, 6.98KΩ	2
R 658		ERJ2RKF1691X	RESISTOR, 1/16W, 1.69KΩ	1
R 659		ERJ2RKF1433X	RESISTOR, 1/16W, 143KΩ	1
R 661, 662		ERJ2GEJ392X	RESISTOR, 1/16W, 3,9KΩ	2
R 663, 664		ERJ2GEJ4R7X	RESISTOR, 1/16W, 4.7Ω	2
T 1, 2		G5BYC0000015	TRANCE	2
X 1		H0J143500058	OSCILLATOR, 14.318MHz	1
X 2		H0J327200115	OSCILLATOR, 32.768KHz	1
Х3		H0J250500076	XTAL	1
X 5		H2D800400015	OSCILLATOR, 8MHz	1
X 6		H0J245500083	XTAL	1
X 7		H0J240500033	XTAL	1
ZA 1, 2, 7		K1YGZZ000060	SPACER	3
ZA 3, 4		K1YGZZ000065	SPACER	2
IO PCB		1111022000003	OI AOLIX	
C 700, 702, 718, 738,		F1G1C104A042	CAPACITOR, 16V, 0.1µF	6
739, 747		F 1G 1C 104A042	CAPACITOR, 16V, 0.1µF	0
C 701		F1H1H104A748	CAPACITOR, 50V, 0.1µF	1
C 703, 704, 705, 706,		F1G1H1010005	CAPACITOR, 50V, 100pF	10
707, 708, 709, 710, 741,				
C 712, 715		F1G1H330A542	CAPACITOR, 50V, 33pF	2
C 736, 737		F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 740		F1H1A1050015	CAPACITOR, 10V, 1µF	1
CN 700		K1MY50BA0220	CONNECTOR	1
CN 701		K1MN40B00048	CONNECTOR	1
CN 702		K1FA209BA004	CONNECTOR	1
CN 703		K1FB115BA014	CONNECTOR	1
CN 705		K1FY180BA001	CONNECTOR	1
F 701	Λ	K5H802300002	FUSE, 8A, 72V	1
FL 703, 704, 705	2:5	J0HAAC000059	FILTER	3
JK 700, 701		K2HC103B0197	JACK	
*				2
L 700, 701, 702, 703, 704, 705, 706, 707		DDB5Z021G-Y	INDUCTOR	8
L 711, 712		J0JCC0000186	INDUCTOR	2
L 713, 714, 721, 722, 723		J0JCC0000078	INDUCTOR	5
L 715, 716, 717, 718, 719		DDB5Z021C-Y	INDUCTOR	5
L 720		J0JHC0000032	INDUCTOR	1
PA 700	A	D4FB1R100015		
	Λ		PROTECTOR, 1.1A	1
R 700, 701, 702		ERJ2RKF1500X	RESISTOR, 1/16W, 150Ω	3
R 703		F1G1A104A014	CAPACITOR, 10V, 0.1μF	1
R 704		EZJP0V080KA	VARISTOR	1
R 706, 719		ERJ2GEJ472X	RESISTOR, 1/16W, 4.7KΩ	2
R 711, 712, 713, 714,		ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	6
722, 723 R 716		ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	1
		ERJ2GEJ101X ERJ2GEJ221X	RESISTOR, 1/16W, 100Ω RESISTOR, 1/16W, 220Ω	2
R 717, 718				2
R 720, 721		ERJ3GEY0R00V	RESISTOR, 1/16W, 0Ω	2
MP PCB	1	II/ANNIADOS : :	LOONINGOTOR	- г -
CN 400, 401		K1MN40B00048	CONNECTOR	2
CN 402		K1KA62B00003	CONNECTOR	1
F 401	Λ	K5H103300003	FUSE, 10A, 72V	1
PAD PCB				
C 800, 804		F1H1A1050015	CAPACITOR, 10V, 1µF	2
C 801, 802		F1G1H681A496	CAPACITOR, 50V, 680pF	2
C 803		F1G1C104A042	CAPACITOR, 16V, 0.1µF	1
CN 800		K1MN14BA0059	CONNECTOR	1
CN 801		K1MY04BA0104	CONNECTOR	1
CN 802		K1MN10BA0059	CONNECTOR	1
				

D 800	DED1SS355T17	DIODE	1 1
IC 800	C1DB00001417	IC, FLAT PAD CONTROLLER	1
		TRANSISTOR	2
Q 800, 801	B1GKCFJN0004		
R 800	ERJ2GEJ224X ERJ2GEJ822X	RESISTOR, 1/16W, 220KΩ	1
R 801, 803		RESISTOR, 1/16W, 8.2KΩ	2
R 802	ERJ2GEJ273X	RESISTOR, 1/16W, 27ΚΩ	1
R 804	ERJ2GEJ105X	RESISTOR, 1/16W, 1MΩ	1
R 805, 806	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KΩ	2
R 808	D1H81034A024	RESISTOR ARRAY	1
SW 800, 801	EVQPLDA15	SWITCH	2
X 800	H2D400400012	OSCILLATOR, 4MHz	1
SD PCB	T=		1
C 300	F1G1A104A014	CAPACITOR, 10V, 0.1µF	1
CN 300	K1MN12BA0134	CONNECTOR	1
CN 301	K1NA09E00076	CONNECTOR	1
D 300	B3ACB0000207	LED	1
R 300	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	1
USB PCB		-	<u>-</u>
C 100	EEFCX0J121R	CAPACITOR	1
C 101, 102	EEFCX0J121R	CAPACITOR	2
CN 100	K1KA14BA0014	CONNECTOR	1
CN 101, 102, 103	K1FY104BA024	CONNECTOR, USB	3
D 100	B0KB00000044	DIODE	1
D 101, 102	B0KB00000044	DIODE	2
L 100	J0MAB0000116	INDUCTOR	1
L 101, 102	J0MAB0000116	INDUCTOR	2
L 103, 104, 105, 106,	DDB5Z031J-L	INDUCTOR	6
107, 108	DDD020010 L	INDOOTOR	
LED PCB			<u>. </u>
LED			
PC			
CN 901	K1MN10AA0058	CONNECTOR	1
D 901, 902, 905, 906, 907	B3ABB0000210	DIODE	5
D 903	B3ADB0000065	DIODE	1
D 904	B3AGB0000040	DIODE	1
EXT. ANTENNA PCB	•		•
CN 1, 2	K1QZA1AE0001	CONNECTOR	2
CN 3	K1QZB1AA0023	COAXIAL CONNECTOR	1
HDD BATTERY FPC			<u>.</u>
CN 4	K1KY42B00001	CONNECTOR	1
CN 5	K1KY10B00009	CONNECTOR	1
CN 7	K1KY10BA0084	CONNECTOR	1
TOUCH PANEL CONTROLL			<u> </u>
C 200, 201, 202, 203	F1G1E472A062	CAPACITOR, 25V, 4700pF	4
C 204, 205, 206, 207	F1G1H681A496	CAPACITOR, 50V, 680pF	4
C 204, 203, 200, 207	F1G1C104A042	CAPACITOR, 30V, 880pr	3
C 209	F1G1E223A062	CAPACITOR, 16V, 0.1µF	1
C 209	F1G1H102A496	CAPACITOR, 25V, 0.022µF	1
		•	
C 213	F1J0J475A009	CAPACITOR, 6.3V, 4.7µF	1
C 214	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	1
C 216	F1J0J106A013	CAPACITOR, 6.3V, 10μF	1
CN 200	K1MN04BA0071	CONNECTER	1
CN 201	K1KA06BA0014	CONNECTOR	1
IC 200	C0EBE0000460	IC	1
IC 202	C1CB00002515	IC, TOUCHPANEL CONTROLLER	1
Q 200, 201	XP0431400L	TRANSISTOR	2
Q 202	UNR9113J0L	TRANSISTOR	1
Q 203	UNR9213J0L	TRANSISTOR	1

R 200, 206	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	2
R 203, 205, 207, 209, 210, 211, 212, 217, 220, 221, 222, 223	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	12
R 208	ERJ2GEJ273X	RESISTOR, 1/16W, 27KΩ	1
R 213, 214, 215, 216	ERJ2GEJ822X	RESISTOR, 1/16W, 8.2KΩ	4
R 218	ERJ2GEJ512X	RESISTOR, 1/16W, 5.1KΩ	1
R 226	DEARA8AJ473M	RESISTOR ARRAY	1
R 227, 228	ERJ2GEJ270X	RESISTOR, 1/16W, 27Ω	2
R 229	ERJ2GEJ152X	RESISTOR, 1/16W, 1.5KΩ	1
X 200	H2D600400005	OSCILLATOR, 6MHz	1
BT PCB		•	•
C 1	F1J0J106A016	CAPACITOR, 6.3V, 10µF	1
C 2, 4, 7, 11	F1G1C104A042	CAPACITOR, 16V, 0.1µF	4
C 3, 5	F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 6, 9	F1G1E103A062	CAPACITOR, 25V, 0.01µF	2
C 8	F1G1H270A542	CAPACITOR, 50V, 27pF	1
C 10	F1G1HR50A543	CAPACITOR, 50V, 0.5pF	1
CN 1	K1MN10BA0070	CONNECTOR	1
IC 1	C0JBAZ002422	IC, FET SWITCH	1
IC 2	N5HZZ0000056	BLUETOOTH MODULE	1
IC 3	C0EBE0000460	IC	1
IC 5	C0JBAC000382	IC, LOGIC	1
JK 1	K1QZA1AE0001	CONNECTOR	1
L 1, 2	J0JJC0000015	INDUCTOR	2
L 4	G1C5N6ZA0029	INCUCTOR	1
L 5	J0MAB0000200	INDUCTOR	1
Q 1	B1GBCFNN0042	TRANSISTOR	1
Q 2	B1DHDC000028	TRANSISTOR	1
R 1, 2, 3	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	3