Service Manual

Personal Computer

CF-W5

This is the Service Manual for the following areas.

M ...for U.S.A. and Canada

Model No. CF-W5LWEZZ12

1: Operation System

B: Microsoft® Windows® XP Professional

2: Area

M: Refer to above area table

⚠ 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 screwdriver and replace the fuse.



Warnings

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

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

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

This equipment is produced to BS800/1983.

LASER SAFETY INFORMATION

For U.S.A.

Class 1 LASER-Product

This product is certified to comply with DHHS Rules 21 CFR Subchapter J.

This product complies with European Standard EN60825 (or IEC Publication 825)

For all areas

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

Caution

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

Danger:

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

Please check DANGER label on PD-drive unit.

Unplug the AC power cord to the equipment before opening the top cover of the drive.

When the power switch it on, do not place your eyes close to the front panel door to look into the interior of the unit.

LASER Specification

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

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

Safety precautions

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

Important Safety Instructions

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

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

Lithium Battery

Lithium Battery!

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

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

SAVE THESE INSTRUCTIONS

-LITHIUM BATTERY Δ -

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

Discard used batteries according to the manufacturer's instructions.

LITHIUMBATTERIES 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 🛆 -

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

For U.S.A. / CANADA



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

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

Precautions (Battery Pack)

 Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

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



Keep Articles Away

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



Do Not Disassemble

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



Do Not Short

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



Avoid Extreme Heat, Cold and Direct Sunlight

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



Do Not Use With Any Other Computer

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



Do Not Put into a Microwave

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



Discontinue Use

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

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

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

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F}).(

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

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1 Specifications

Main Specifications

Model No.			CF-W5LW EZZBM			
CPU/ Secondary cache memory			Intel [®] Core [™] Solo Processor Ultra Low Voltage U1400 (1.20 GHz, 2 MB ^{*1} L2 cache, 533 MHz FSB)			
Chip Set			Mobile Intel® 945 GMS Express chip set			
Main Memory			512 MB ^{*1} , DDR2 SDRAM (1536 MB ^{*1} Max.)			
Video Memory	/		UMA (128 MB ^{*1} Max.) ^{*2}			
Hard Disk Driv	/e		60 GB*3			
CD/DVD Drive	9		USB 2.0 connection interface			
			DVD-ROM & CD-R/RW Drive built-in, Buffer underrun error prevention function: Supported			
Continuous I fer Speed*4*5		Reading*6	DVD-RAM*7: 2X (4.7 GB*3)/1X (2.6 GB*3) DVD-R*8: 4X (Max.) DVD-RW: 4X (Max.) DVD-ROM: 8X (Max.) CD-ROM: 24X (Max.) CD-R: 24X (Max.) CD-RW: 24X (Max.) +R: 4X (Max.) +R DL: 4X (Max.) +RW: 4X (Max.)			
		Writing*9	CD-R: 4X/8X/10-16X/10-24X CD-RW: 4X High-Speed CD-RW: 4X/8X/10X Ultra-Speed CD-RW: 10X/10-16X/10-24X			
Supported D mat*5	Supported Disks/Format*5		DVD-ROM (Single Layer, Dual Layer) DVD-Video DVD-R ^{*8} (1.4 GB, 3.95 GB, 4.7 GB) ^{*3} DVD-RW (Ver.1.1/1.2 1.4 GB, 4.7 GB, 9.4 GB) ^{*3} DVD-RAM ^{*7} (1.4 GB, 2.8 GB, 2.6 GB, 5.2 GB, 4.7 GB, 9.4 GB) ^{*3} +R (4.7 GB) ^{*3} +R DL (8.5 GB) ^{*3} +RW (4.7 GB) ^{*3} CD-Audio CD-ROM (XA compatible) CD-R Photo CD (multiple session compatible) Video CD CD-EXTRA CD-RW CD-TEXT			
		Writing	CD-R CD-RW			
Display Method			12.1 XGA type (TFT) (1024 × 768 dots)			
Internal LCD			65,536/16,777,216 colors (1024 × 768 dots)*10			
External Disp	olay ^{*11}		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots/1400 × 1050 dots/1600 × 1200 dots/2048 × 1536 dots (60 Hz)*12)			
Simultaneou nal Display ^{*1}		LCD + Exter-	65,536/16,777,216 colors (800 × 600 dots, 1024 × 768 dots)*10			
Wireless LAN			Intel® PRO/Wireless 3945 ABG Network Connection			
LAN*13			IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX			
Modem			Data: 56 kbps (V.92) FAX: 14.4 kbps			
Sound			WAVE and MIDI playback, Intel [®] High Definition Audio subsystem support, Monaural Speaker (built in)			
Security Chip			TPM (TCG V1.2 compliant)*14			
Card Slots	PC Card S	lot	× 1, One Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA			
	SD Memor	y Card Slot ^{*15}	× 1, Data transfer rate = 8 MB per second			
RAM Module			× 1, DDR2 SDRAM, 172-pin, 1.8 V, Micro DIMM, PC2-4200 Compliant*16			
Interface			USB Ports × 2 (USB2.0 × 2)*17 / Modem Port (RJ-11) / LAN Port (RJ-45) *13 / External Display Port: Mini Dsub 15-pin female / Microphone Jack: Miniature jack, 3.5 DIA / Headphone Jack: Miniature jack, 3.5 DIA / Mini Port Replicator connector: Dedicated 50-pin male			
Keyboard/Pointing Device			83 keys/Touch Pad			
Power Supply			AC adaptor or Battery pack			
AC Adaptor*18			Input: 100 V - 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 2.5 A			
Battery Pack			Li-ion 10.65 V, 5.7 Ah			
Operating Time*19			Approx. 5.5 hours - 11 hours*20 (Approx. 8 hours*21) (Disable Economy Mode (ECO))			
Charging Time ^{*22}			Approx. 5 hours (Power off)/Approx. 6.5 hours (Power on)			

Model No.			CF-W5LWEZZBM		
Power Consumption*23			Approx. 35 W ^{*24} / Approx. 40 W (maximum when recharging in the ON state)		
Physical Dimensions (W × H × D)		H × D)	268 mm × 33.1 mm (at the front)/50.4 mm (at the rear) × 218 mm (excluding protrusion) {10.6 " × 1.3 " / 2.0 " × 8.6 "}		
Weight*25			Approx. 1330 g {2.9 lb.}		
Environment	Operation	Temperature	5°C to 35°C {41°F to 95°F}		
		Humidity	30% to 80% RH (No condensation)		
	Storage	Temperature	-20°C to 60°C {-4°F to 140°F}		
		Humidity	30% to 90% RH (No condensation)		
OS*26			Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File system)		
Pre-installed Software*26			Microsoft [®] Internet Explorer 6 Service Pack 2 / DirectX 9.0c / Microsoft [®] Windows [®] Media Player 10 / Microsoft [®] Windows [®] Movie Maker 2.1 / Microsoft [®] .NET Framework 1.1 SP1/2.0 / Adobe Reader / Intel [®] PROSet/Wireless Software <only for="" lan="" model="" wireless="" with=""> / SD Utility / Icon Enlarger / Loupe Utility / Touch Pad Utility / DMI Viewer / PC Information Viewer / WinDVD™5 (OEM Version) / B's Recorder GOLD8 BASIC / B's CLiP 6*27 / Hotkey Settings / Optical Disc Drive Letter-Setting Utility / Optical Disc Drive Power-Saving Utility / Wireless Switch Utility <only for="" lan="" model="" wan="" wireless="" with=""> / Economy Mode (ECO) Setting Utility / Battery Recalibration Utility / Infineon TPM Professional Package V2.5*28 / Recover Pro 6*28</only></only>		
			Setup Utility / Hard Disk Data Erase Utility*29 / PC-Diagnostic Utility*30		

Wireless LAN <Only for model with wireless LAN>

Data Transfer Rates	IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched)*31 IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched)*31 IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)*31
Standard Supported	IEEE802.11a/IEEE802.11b/IEEE802.11g
Transmission Method	OFDM system, DS-SS 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: 2412 - 2462 MHz

- *1 1 MB = 1,048,576 bytes
- *2 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.
- *3 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- *4 Data transfer speeds indicate values measured by Matsushita Electric Industrial Co., Ltd. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.
- *5 Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-RW, +R, +R DL, and +RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disk, settings, and environment being used.
 - Does not support reading from DVD-R DL.
- *6 If an unbalanced disk (e.g., a disk with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disk is rotating.
- *7 Only non-cartridge type or removable cartridge type can be used
- *8 DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with disks recorded using Disk-at-Once recording.

- *9 Depending on the disk, the writing speed may become slower.
- *10 A 16,777,216 color display is achieved by using the dithering function.
- *11 Display may be impossible using some connected external displays.
- *12 When using an external display with a resolution of 2048 x 1536 dots, use a display that supports a 60Hz refresh rate. If an external display that does not support a 60Hz refresh rate is used, images may not be displayed properly.
- $^{\star 13}$ Some devices cannot be used depending on the port type.
- *14 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)".
- *15 Operation has been tested and confirmed using Panasonic SD Memory Cards with a capacity of up to 2 GB. The transfer rate using the SD Memory Card slot on this computer is 8 MB per second. (This is a theoretical value, and differs from actual speeds.)

 The transfer rate is 8 MB per second even if you use an SD Memory Card that supports high-speed transfer rates.

 Operation on other SD equipment is not guaranteed.

 This computer is not compatible with MultiMediaCards or
 - Do not insert these kinds of cards.

SDHC Memory Cards.

- *16 Only a RAM module designed for DDR2 (PC2-4200) can be added (Panasonic: CF-BAW0512U, CF-BAW1024U). JEDEC standard 214 pin Micro DIMM cannot be used. PC2100 / PC2700 172 pin Micro DIMM cannot be used. If a PC2-3200 RAM module is installed, the main memory processing speed may become slower.
- *17 Does not guarantee operation of all USB-compatible peripherals.
- *18 <Only for North America> The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

20-M-2-

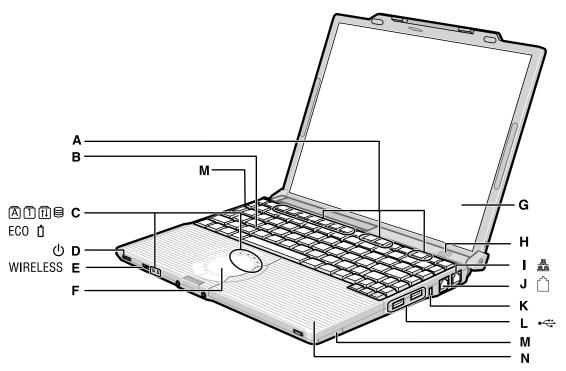
*19 Varies depending on the usage conditions, or when an optional device is attached. Measured when the power saving function on the USB2.0 USB Root Hub is set to on. (At the time of purchase, the power saving function is activated.) When Economy Mode (ECO) is enabled, the operating time becomes approximately 20% shorter than when it is disabled.

- *20 Measured using BatteryMark[™] Version 4.0.1 (LCD brightness: Maximum Minimum).
- *21 Measured using MobileMark[™] 2005 (LCD brightness : 60 cd/m²).
- *22 Varies depending on the usage conditions, CPU speed, etc. It may take a long time to charge a fully discharged battery.
- *23 Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.
- *24 Rated power consumption.

23-E-1

- *25 Average value. May differ depending on models.
- *26 Operations of this computer are not guaranteed except for the pre-installed OS.
- *27 Preinstalled B's CLiP does not support CD-R.
- *28 Must be installed before use.
- *29 The Product Recovery DVD-ROM is required.
- *30 For startup methods, refer to "Hardware Diagnostics".
- *31 These are speeds specified in IEEE802.11a+b+g standards. Actual speeds may differ.

2 Names and Functions of Parts



A : Function Key B : Keyboard

C :LED Indicator

A : Caps lock

1 : Numeric key (NumLk)

1 : Scroll lock (ScrLk)

: Hard disk drive status

ECO: Economy Mode (ECO) status

: Battery status

D:Power Switch

Power Indicator

Off: Power off/Hibernation

Green: Power on

Blinking green: Standby

E: Wireless Switch

<Only for model with wireless LAN/wireless WAN>

F: Touch Pad

G:LCD

H:Speaker

I: LAN Port

If the Mini Port Replicator is connected to the computer, connect the LAN cable to the LAN port on the Mini Port Replicator. You cannot use the LAN port on the computer.

J : Modem Port

Be sure to use the included modem telephone cable, and insert the end of the cable with the phyllite core into the modem port on the computer.

K: Security Lock

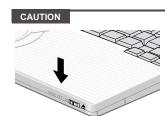
You can connect a Kensington cable. Refer to the instruction manual of the cable. The security lock and cable is a theft prevention device. Matsushita Electric Industrial Co., Ltd. will bear no responsibility in the event of theft.

L: USB Ports

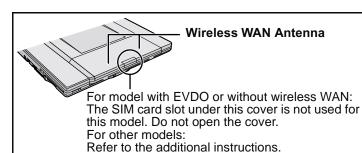
M: Wireless LAN Antenna

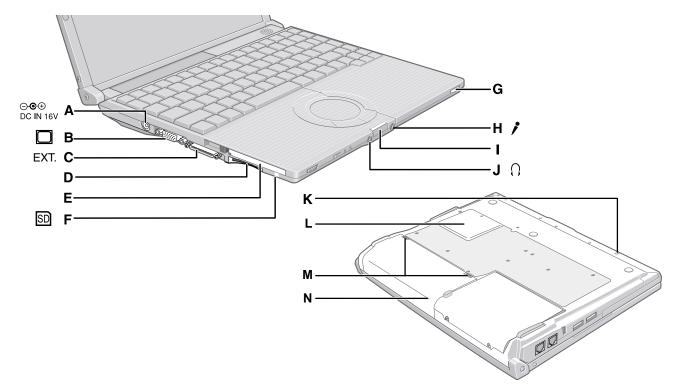
<Only for model with wireless LAN>

N:CD/DVD Drive



When closing the disk cover, press down near the drive power/ open switch (position of the arrow) to ensure that the cover is locked.





A:DC-IN Jack

B:External Display Port

If the Mini Port Replicator is connected to the computer, connect the external display to the external display port on the Mini Port Replicator. You cannot use the external display port on the computer.

C: Mini Port Replicator Connector

Connect the Mini Port Replicator (optional).

D:SD Memory Card Slot

E: PC Card Slot

F: SD Memory Card Indicator

Blinking: During access

G:CD/DVD Drive Power/Open Switch

Slide the switch to the right to open the disk cover. Slide the switch to the left to turn on/off the drive power.

CD/DVD Drive Indicator

Off: Drive power is off.

Green: Drive power is on, but the drive is not

Blinking green: Drive power is on, and the drive is being accessed.

H: 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:

Double-click in the notification area, click



[Options] - [Properties], and add a check mark for [Recording], click [OK] - [Options] - [Advanced Controls] - [Advanced], remove a check mark for [Mono Microphone], and then click [Close].

When using a monaural microphone with a 2-terminal plug: With the settings outlined above, only audio on the left track will be recorded.

When monitoring the microphone audio using headphones, sounds on the left track cannot be heard, regardless of the above settings. This is a result of the computer s specifications, and is not a malfunction.

I: Latch

J : Headphone Jack

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

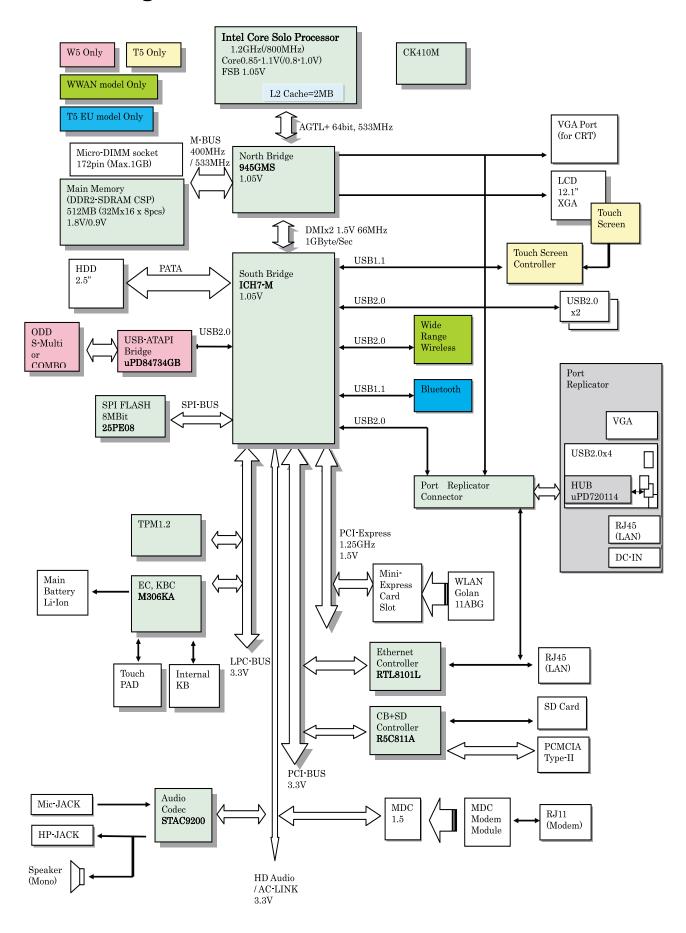
K: Emergency Hole

L: RAM Module Slot

M:Battery Latches

N:Battery Pack

3 Block Diagram

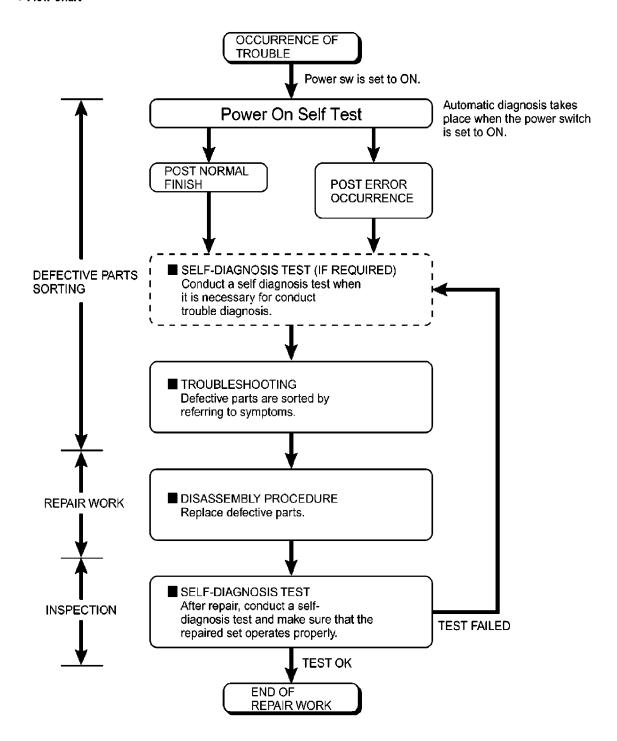


4 Diagnosis Procedure

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.

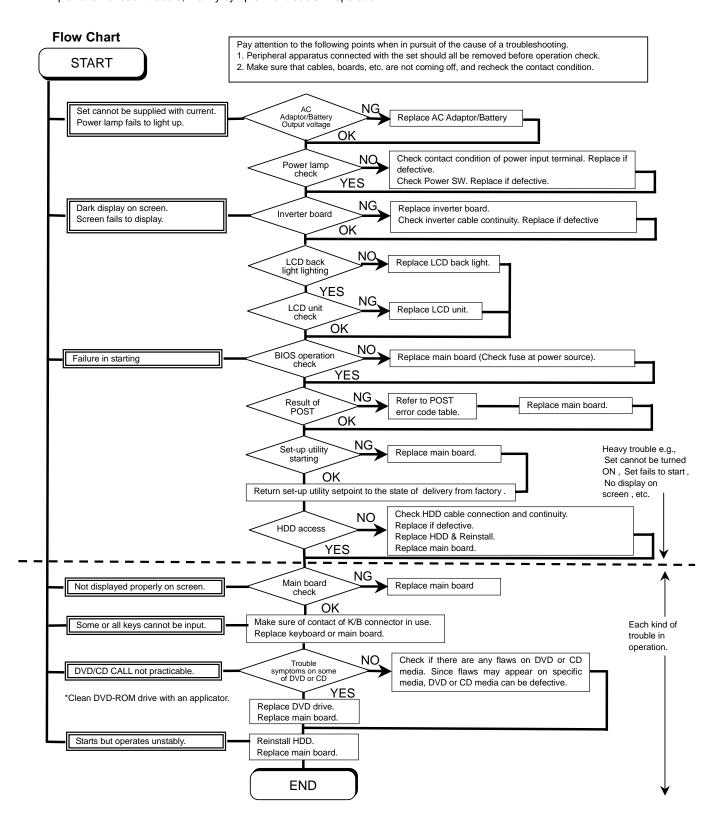
• Flow Chart



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	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.
- 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.

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



Do not 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.

7.1. Test Item and Division of trouble

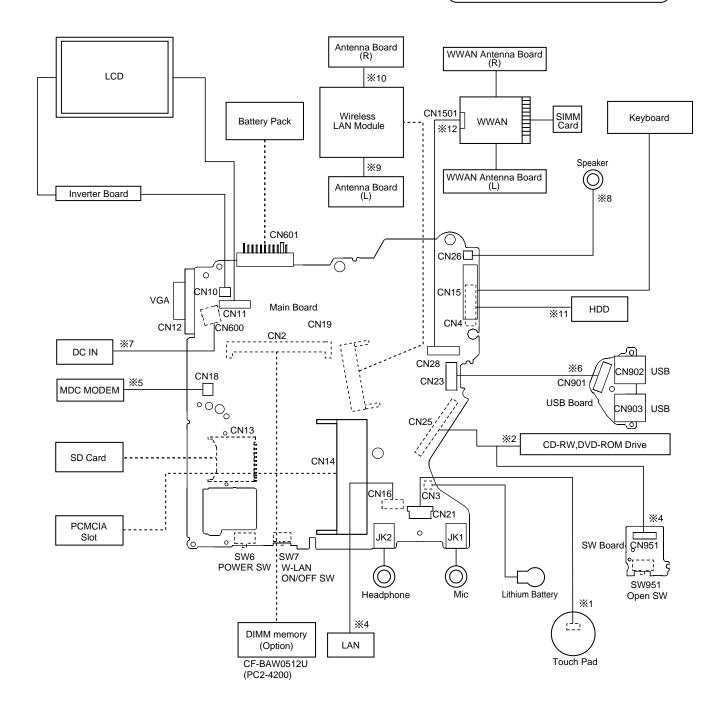
Test item	Stanard	Enhancing	Content of standard test	Content of enhancing test	Place with possibility of breakdown
CPU / SYSTEM	0	_	CPU is shifted to protected mode, and "Violation of the paging", "Operation of the violation of a privileged instruction", and DMA, INT, TIMER, and the RTC operation are confirmed.	lation of the paging", "Operation of violation of a privileged instruc- ", and DMA, INT, TIMER, and the	
RAM	0	_	All memory space is tested in a special memory access pattern based on "R.S.T. technology".		Memory / Main- board
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/ Main- board
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	*1	It is confirmed not to find abnormality in the USB controller.	It is confirmed not to find abnormality in 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	*2 O	It is confirmed not to find abnormality in the LAN controller.	It is confirmed not to find ab- normality in the wiring be- tween 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	*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	*4 O	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 / Touch Pad

Test Item	Standard	Enhanced		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	_	0	_	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.)

8 Wiring Connection Diagram

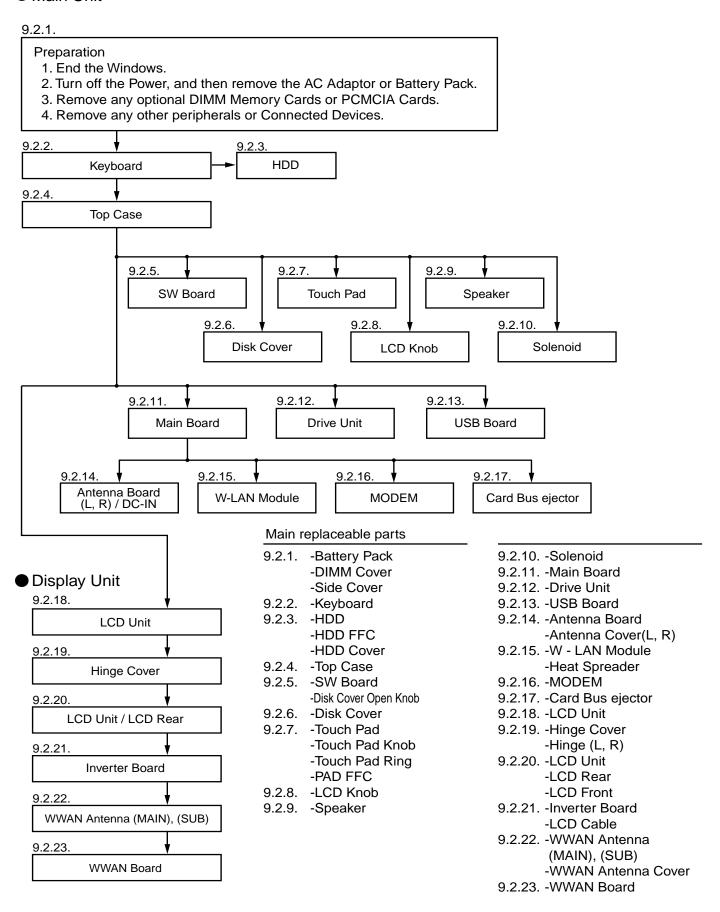
Connection by Cable	Conn	ection Cable	
Direct connection Connectors	※ 1	PAD FFC	DFJK12U112BB
Parts on Bottom Side	※ 2	DRIVE FFC	DFJK9000ZA
Faits on Bottom Side	※ 3	LCD Cable	DFJS957ZA
	※ 4	LAN Cable	DFJS979ZA
	※ 5	MODEM Cable	DFJ959ZC
	※ 6	MAIN SUB Cable	DFJS960ZA
	※ 7	DC-IN Cable	DFJS1020YA
	※ 8	SP Cable	DFJS962ZA
	※ 9	Antenna PCB-L	N1ZYYY000002
	※ 10	Antenna PCB-R	N1ZYYY000001
	※11	PCB,HDD FPC UNIT	DL3UP1443AAA
	X 12	WM Cable	DFJS1048ZA



9 Disassembly instructions

9.1. Disassembly Flow Chart

Main Unit



9.2. Disassembly Instructions

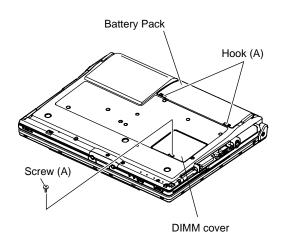
9.2.1. Preparation

Attention:

Before disassembly, be sure to perform the following steps.

- 1. End the Windows.
- 2. Turn off the power and then remove the AC adaptor.
- 3. Slide the hooks (A) and then remove the battery Pack.
- 4. Remove the screw (A) and then remove the DIMM cover.

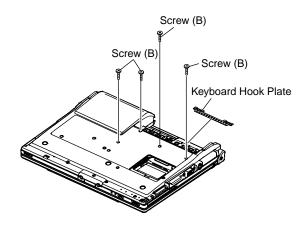
(Remove if the DIMM memory is equipped with) Screw (A): XSB2+4FNL (N17)



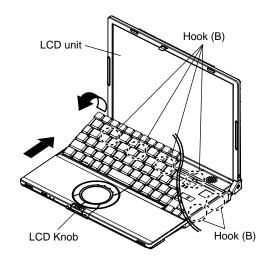
9.2.2. Removing the Keyboard

Preparation: perform the section 9.2.1. first.

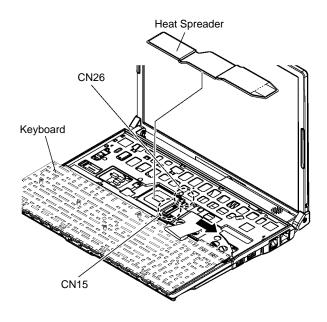
- 1. Remove the 4 screws (B). Screw (B): DXQT2+E12FNL (N11)
- 2. Remove the keyboard hook plates, and then remove the hook of back side of keyboard with screwdriver.



- 3. The LCD unit is opened up to about 90 °by operating the LCD knob.
- 4. Remove the 6 hooks (B).
- 5. Open the keyboard from LCD side and then turn it inside out on the top case.



- 6. Remove the heat spreader from buttom of the keyboard.
- 7. Remove the keyboard FFC from the connector (CN15), (CN26) and then remove the keyboard.

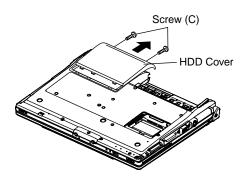


9.2.3. Removing the HDD

Preparation : perform the section 9.2.1., 9.2.2. first.

1. Remove the 2 screws (C). Screw (C): DFHE5025XA (N1)

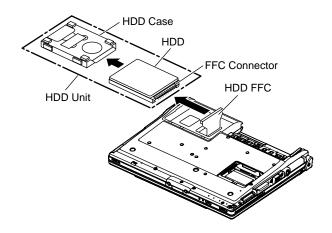
2. The slide is done in the direction of the arrow and the HDD cover is removed.



- 3. Lift up the HDD unit and remove FFC connector and then remove the HDD unit.
- 4. HDD is taken out of the HDD case.

Note:

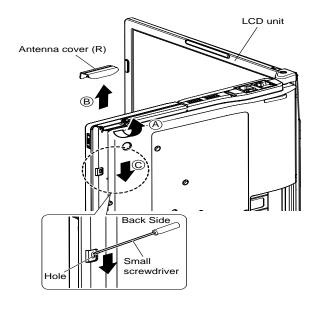
Please do not bend pins of the HDD connector, at the time of removing HDD and FFCconnector.



9.2.4. Removing the Top Case

Preparation: perform the section 9.2.1., 9.2.2. first.

- Insert a small screwdriver into the hole and slide the look in the direction shown by arrow (C) to open the disc cover.
- The anttena cover (R) is rotated from the bottom case side in the direction of arrow (A) and the antenna cover (R) removed in the direction of arrow (B).

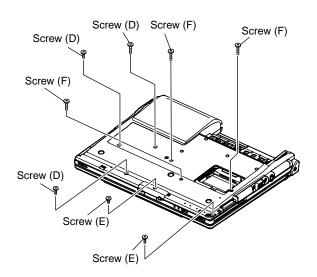


3. Remove the 3 screws (D), 2 screws (E) and 3 screws (F) from the bottom case.

Screw (D): DRHM0092ZA (N4)

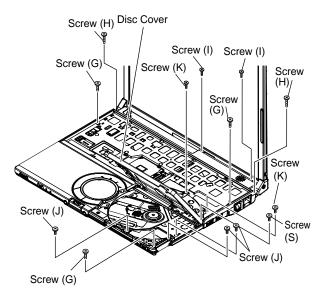
Screw (E): DXHM0057ZA (N7)

Screw (F): DXHM0039ZA (N6)

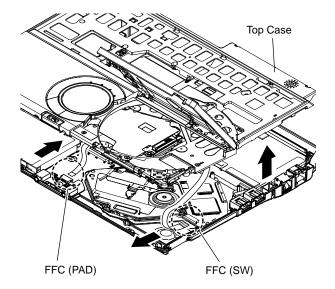


4. Remove the 3 screws (G), 2 screws (H), 2 screws (I), 2 screws (J), 2 screws (K) and 1 screw (L) from the top case.

Screw (G): DXQT2+E6FNL (N13)
Screw (H): DXQT26+D8FCL (N16)
Screw (I): DXQT2+E6FCL (N12)
Screw (J): DFHE5025XA (N1)
Screw (K): DXQT2+E12FNL (N11)
Screw (L): DXQT2+E6FNL (N13)



5. Lift up the top case, remove the pad FFC and then remove the top case.



9.2.5. Removing the SW Board

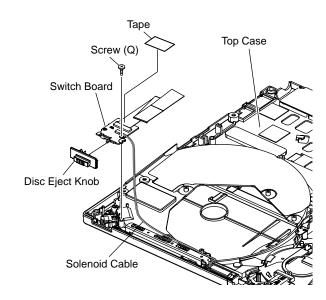
Preparation : perform the section 9.2.1. to 9.2.3. first.

- 1. Peel off the tape.
- 2. Remove the solenoid cable.
- 3. Remove the 1 screw (M) and then remove the SW board.

Screw (M): DXHM0057ZA (N7)

Note:

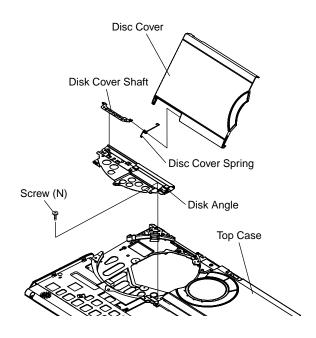
Note it that the disc eject knob comes off at the same time.



9.2.6. Removing the Disc Cover

Preparation : perform the section 9.2.1. to 9.2.3. first.

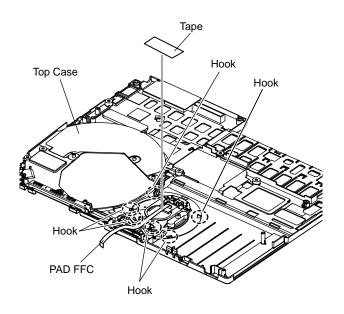
- Remove the 1 screw (N) of the disk angle.
 Screw (N): DXHM0057(N7)
- 2. Slide the disc cover to the disc cover shaft and remove the cover.
- The disk cover shaft is pulled out while sliding and removed it from the disk angle in the direction of the touch pad.



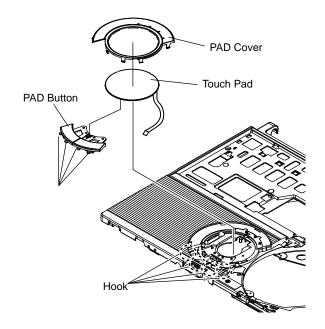
9.2.7. Removing the Touch Pad

Preparation : perform the section 9.2.1. to 9.2.3. first

- 1. Peel off the tape.
- The 5 hooks of the pad cover are depressed in the direction of the center of the touch pad by using the small screwdriver.



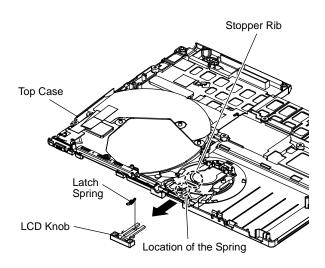
3. Remove the hooks of the toutch pad and the Pad button, and remove the touch pad.



9.2.8. Removing the LCD Knob

Preparation: perform the section 9.2.1. to 9.2.4.

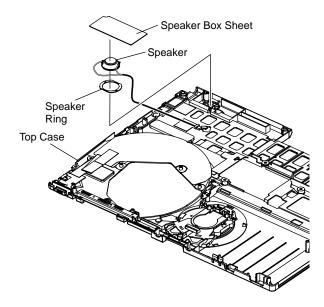
- 1. Remove the spring from the top case.
- 2. Remove the hook of LCD knob from the stopper rib of the top case and then the LCD knob is removed.



9.2.9. Removing the Speaker

Preparation : perform the section 9.2.1. to 9.2.4. first.

- 1. Peel off the speaker box sheet.
- 2. Peel off the tape on the speaker and speakerring and then remove the speaker.

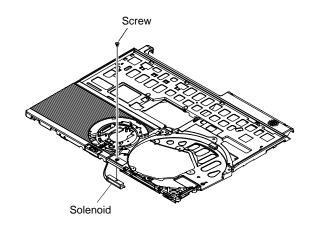


9.2.10. Removing the Solenoid

Preparation: perform the section 9.2.1. to 9.2.4.

 Remove the 1 screw (O) and then remove the Solenoid.

Screw (O): DXQT2+F2FNL (N14)



9.2.11. Removing the Main Board

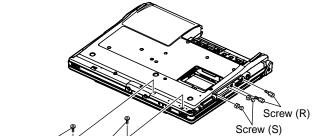
Preparation : perform the section 9.2.1. to 9.2.4. first.

1. Remove the 1 screw (P), (Q) and 2 screws (R), (S).

Screw (P): DXQT2+E10FNL (N10) Screw (Q): DXQT2+D4FNL (N9) Screw (R): DFHE5035ZB (N2) Screw (S): K1YE50000022 (N500)

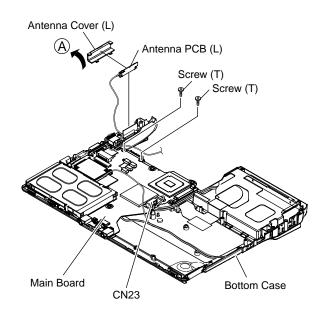
Screw (Q)

Screw (P)

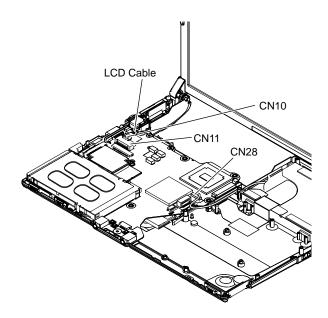


- 2. Remove the 2 screws (T). Screw (T): DXQT2+E6FNL (N13)
- 3. Remove the connector (CN23)
- 4. The antenna cover (L) is inclined in the direction of arrow A and remove it.

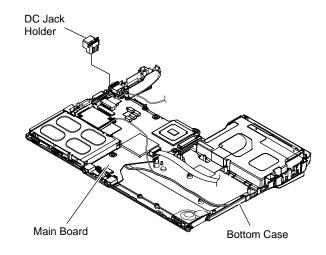
Remove theantenna cover (L) from the topcase.



5. Remove the connectors (CN10), (CN11) of LCD cable and (CN28) of WWAN cable.

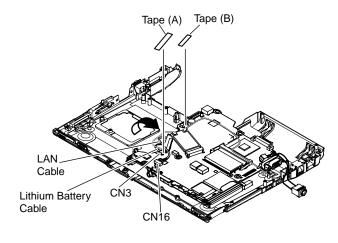


6. Remove the DC-IN jack holder.



- 7. Returns the main board on the reverse.

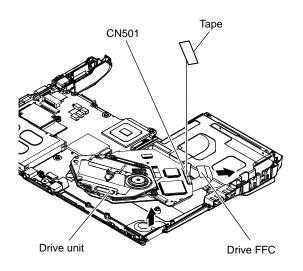
 Peel the tape (A) of the drive FFC and remove the FFC.
- Remove the connector (CN3) and the connector (CN16) of LAN cable.
 Peel off the tape (B) of HDD FFC and remove the FFC.
- 9. Remove the main board.



9.2.12. Removing the Drive Unit

Preparation : perform the section 9.2.1. to 9.2.4. first.

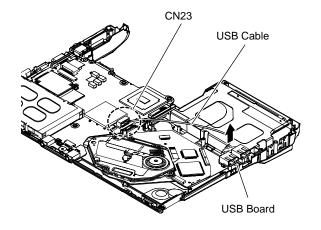
- 1. Peel off the tape from the connector.
- 2. Remove the drive FFC from the connector (CN501) and remove out the drive unit.



9.2.13. Removing the USB Board

Preparation : perform the section 9.2.1. to 9.2.4. first.

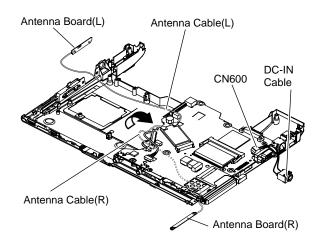
- 1. Remove the connector (CN23) on the main board.
- 2. Remove the USB board from the bottom case.



9.2.14. Removing the Antenna Board (L,R)

Preparation : perform the section 9.2.1. to 9.2.11. first.

- Remove the antenna cable (L, R) on the wireless LAN module and then remove the antenna board from the bottom case.
- 2. Remove the DC-IN cable (CN600) from the main board.

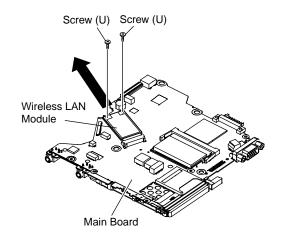


9.2.15 . Removing the Wireless LAN Module

reparation: perform the section 9.2.1. to 9.2.4. and 9.2.14. first.

1. Remove the 2 screws (U) and then remove the wireless LAN module.

Screw (U): DXQT2+D25FNL (N8)

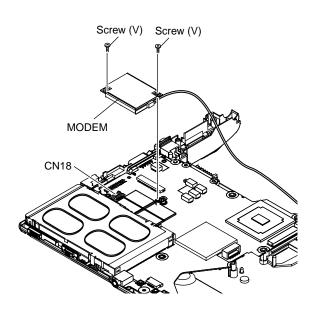


9.2.16. Removing the MODEM

Preparation: perform the section 9.2.1. to 9.2.4. and 9.2.11. first.

Remove the 2 screws (V).
 Screw (V): DXQT2+D25FNL (N8)

2. Remove the MODEM to the vertical direction from connector (CN18) on the main board.

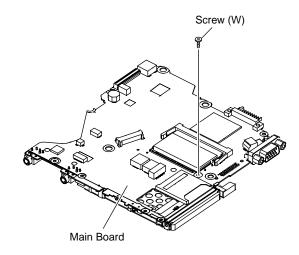


9.2.17. Removing the Card Bus Ejector

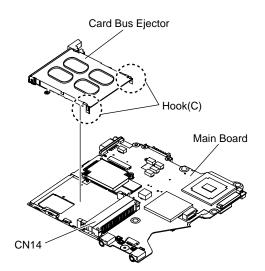
Preparation: perform the section 9.2.1. to 9.2.3. and 9.2.11. first.

1. Remove the 1 screw (W) from connection side of wireless LAN.

Screw (W): DFHE5025XA (N1)



- 2. Return it on the revers to card bus ejector side.
- 3. Remove the 2 hooks (C) of the card bus ejector from the connector (CN14) and the card bus ejector is removed.



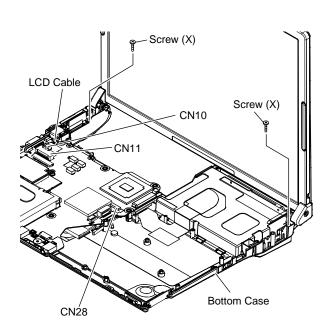
9.2.18. Removing the LCD Unit

Preparation : perform the section 9.2.1. to 9.2.4. first.

1. Remove the 2 screws (X).

Screw (X): DXQT26+D5FNL (N15)

2. Remove the LCD cable from the connector (CN10), (CN11), (CN28) of the main board.

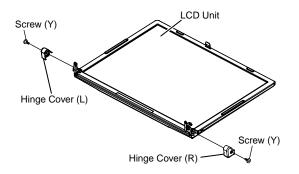


9.2.19. Removing the Hinge Cover

Preparation: perform the section 9.2.1. to 9.2.4. and 9.2.18. first.

1. Remove the 2 screws (Y) and then remove the hinge cover (L, R).

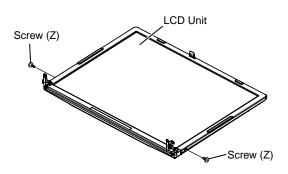
Screw (Y): DRHM0108ZA (N19)



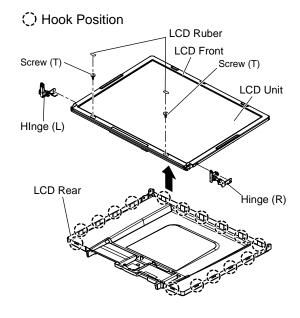
9.2.20. Removing the LCD Unit and the LCD Rear

Preparation: perform the section 9.2.1. to 9.2.4. and 9.2.18. to 9.2.19. first.

1. Remove the 2 screws (Z). Screw (Z): DXHM0076ZA (N18)



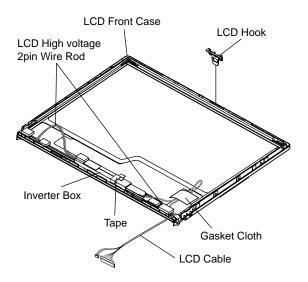
- 2. The LCD front case and the combination parts of LCD rear case are separated.(Combination parts are 6 the top and bottom places for each, 4 right and left places for each)
- 3. Remove the Hinge (L, R).



9.2.21. Removing the Inverter Board

Preparation: perform the section 9.2.1., 9.2.2.,1 9.2.4. and 9.2.13. to 9.2.18. to 9.2.20. first.

- 1. Remove the LCD Cable from the Inverter.
- 2. Peel off the Tape for fixation from Inverter Case.
- 3. Remove the Inverter with the Inverter Case.



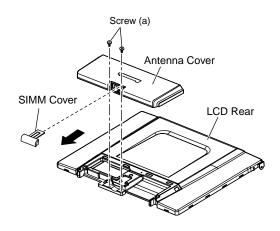
9.2.22. Removing the WWAN Antenna Board (MAIN), (SUB)

Preparation : perform the section 9.2.1., 9.2.2.,1 9.2.4. and 9.2.13. to 9.2.18. to 9.2.20. and 9.2.22. first

1. Open the SIMM cover and then remove the 2 screws (a).

Screw (a): DXHM0057ZA (N7)

2. Remove the antenna cover.



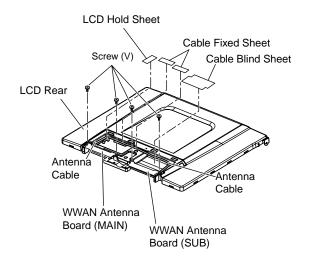
3. Peel off the LCD hold sheet.

LCD Hold Sheet: DFHR3E92ZA (K1013)

4. Peel off the 2 cable fixed sheets and cable blind sheet.

Cable Fixed Sheet: DFHR8526ZA (K1023) Cable Blind Sheet: DFGX0475ZA (K1016)

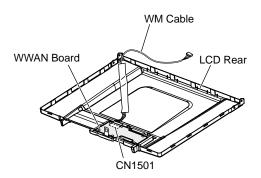
 Remove the each 2 screws (b) and then remove the antenna board (MAIN), (SUB).
 Screw (b): DFHE5025XA (N1)



9.2.23. Removing the WWAN Board

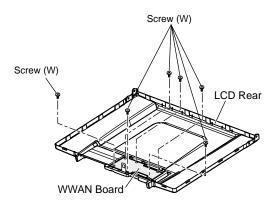
Preparation : perform the section 9.2.1., 9.2.2.,1 9.2.4. and 9.2.13. to 9.2.18. to 9.2.20. first.

1. Disconnect the WM cable from the connector (CN1501).



2. Remove the 6 screws (c) and then remove the WWAN board.

Screw (c): DFHE5025XA (N1)



9.3. Reassenbly instructions

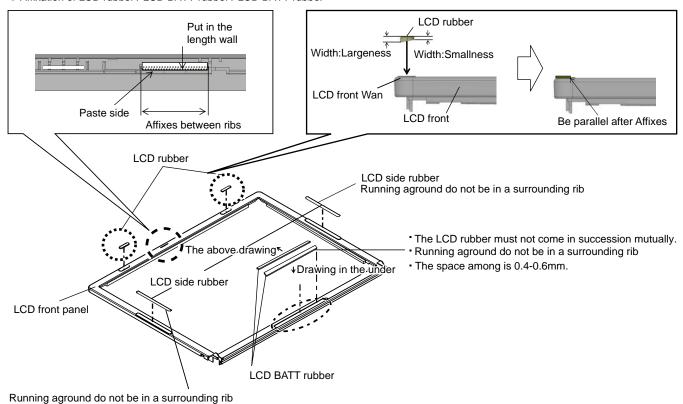
9.3.1. Attention when CF-W5L series is repaired

- 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.

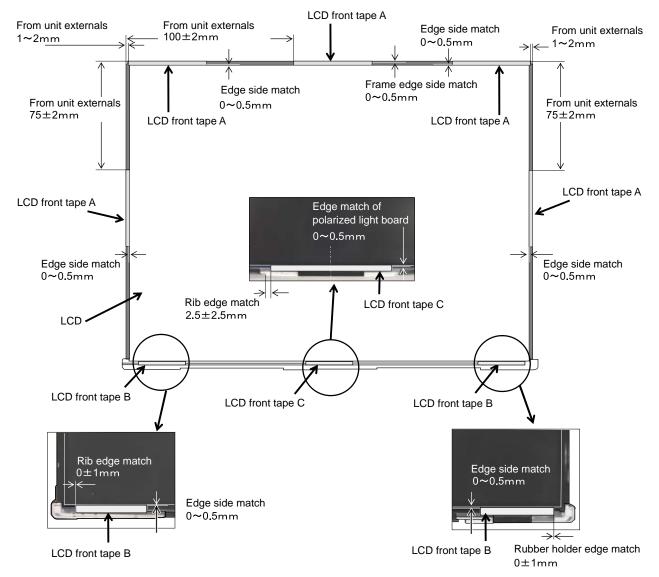
9.3.2. Assembly knowhow of the LCD

9.3.2.1. Assembly of the LCD Front

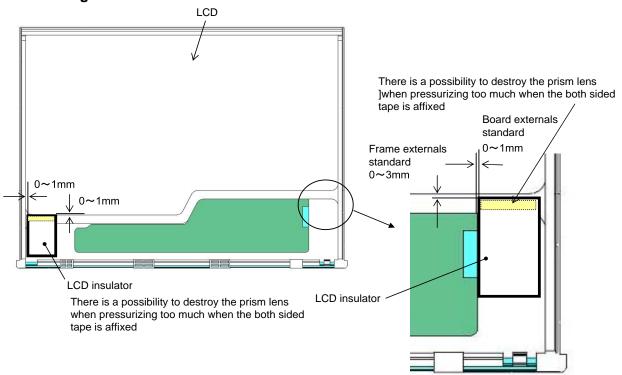
● Affixation of LCD rubber / LCD BATT rubber / LCD BATT rubber



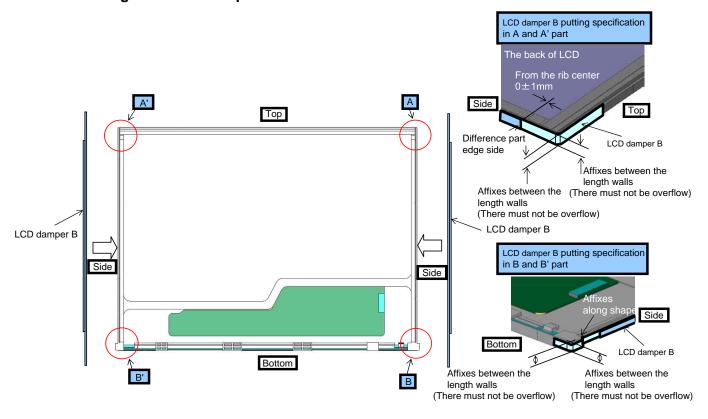
9.3.2.2. Putting TP Flexible Protection Tape



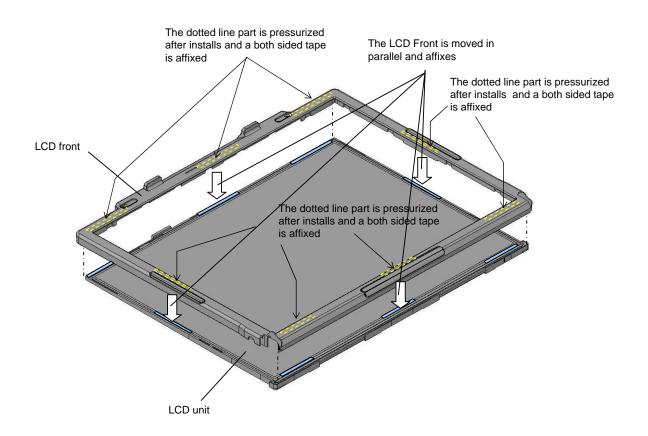
9.3.2.3. Putting LCD Insulator



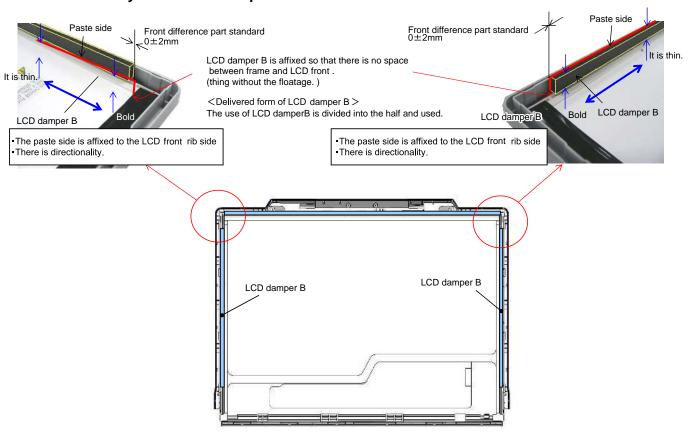
9.3.2.4. Putting LCD Side Dumpers

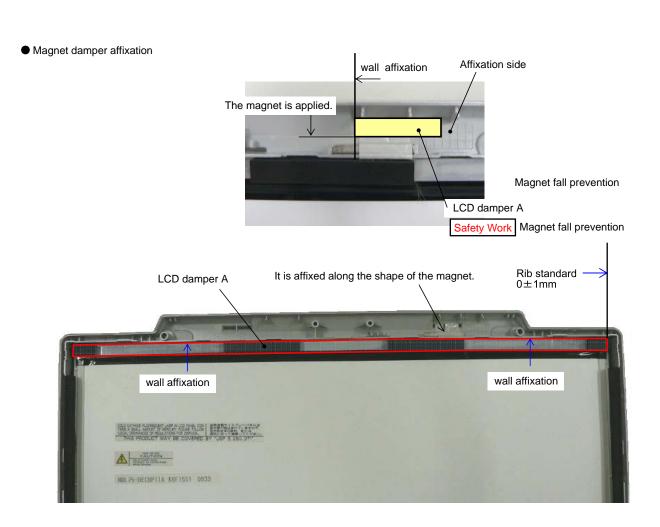


9.3.2.5. Assembly of the LCD Unit

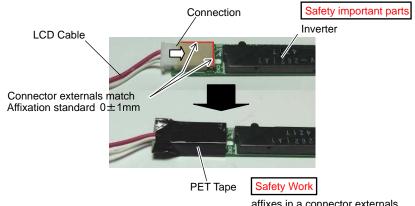


9.3.2.6. Assembly of the LCD Dumper



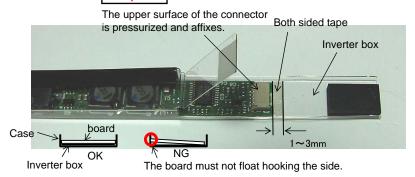


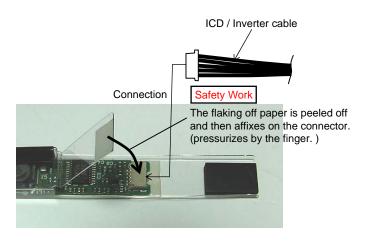
9.3.2.7. Connecting LCD Cable



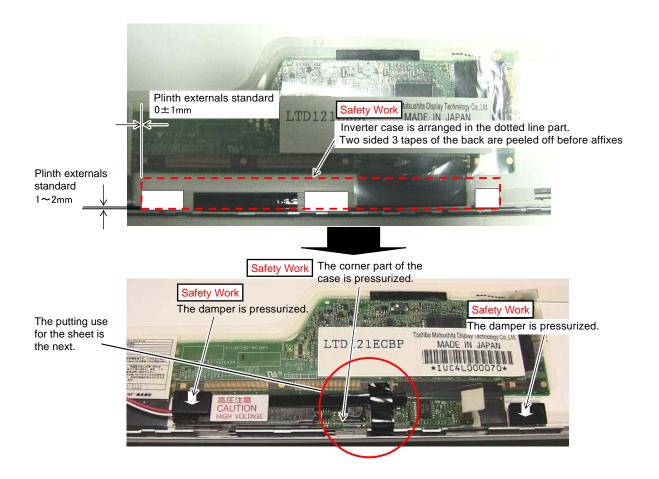
affixes in a connector externals putting (wrapping) together.

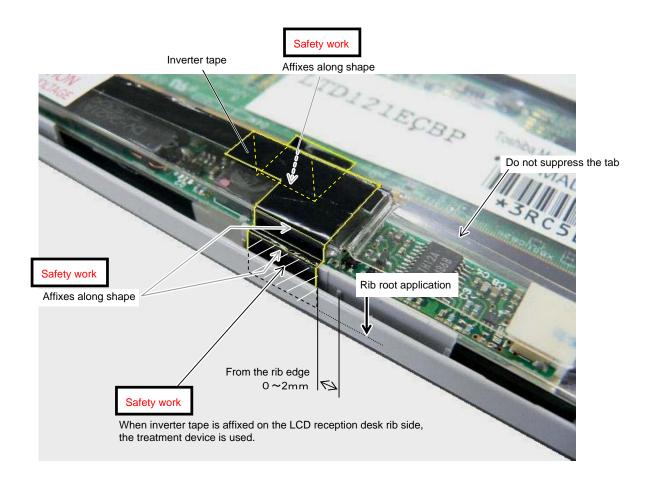
Safety Work



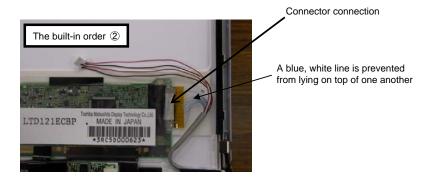


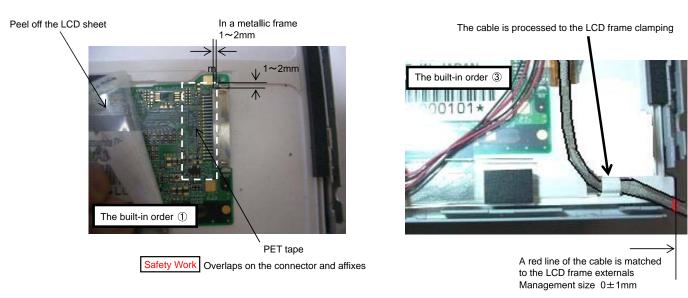
9.3.2.8. Assembly of the Inverter and Putting Inverter Tapes

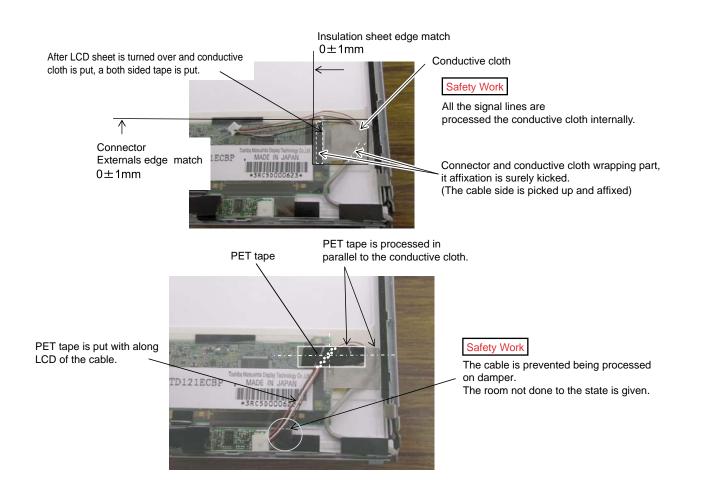


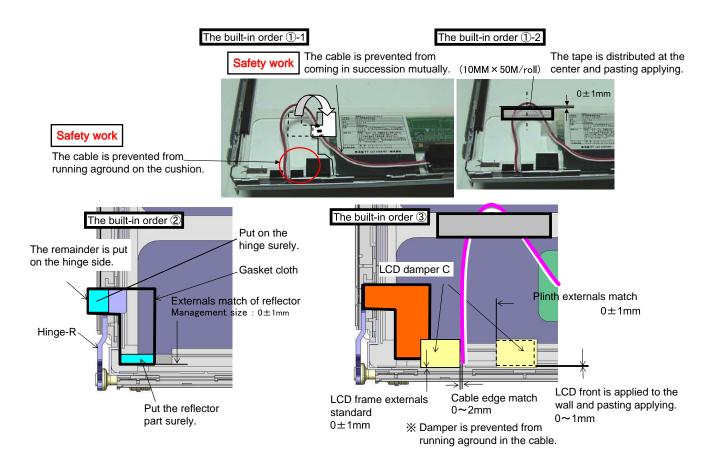


9.3.2.9. Line processing LCD Cable

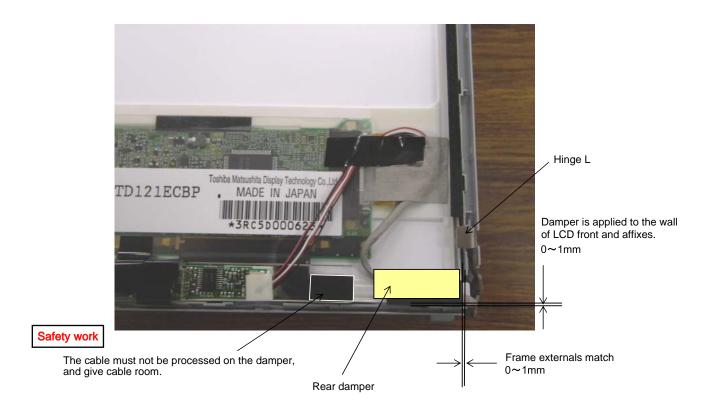




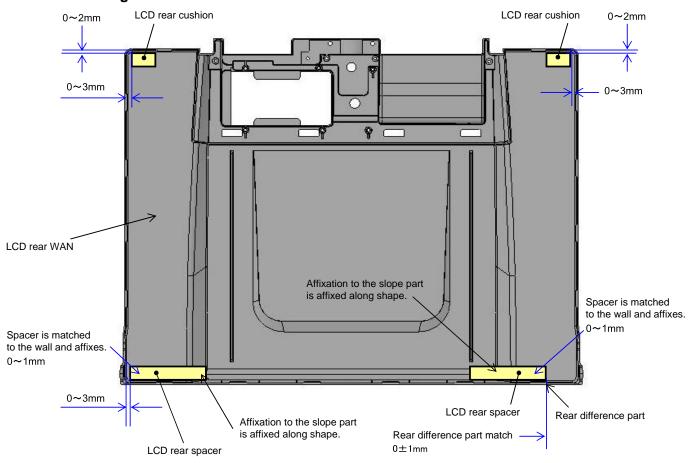




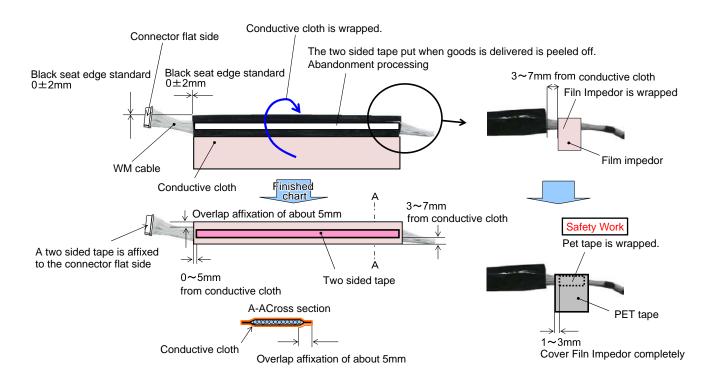
9.3.2.10. Putting Tapes of LCD Cable



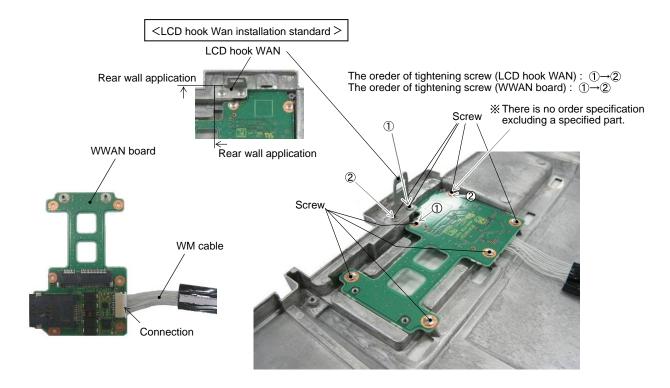
9.3.2.11. Putting LCD Rear Cushions



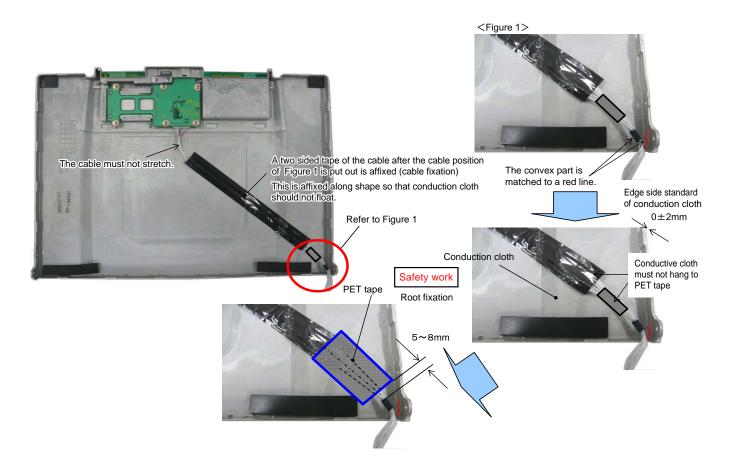
9.3.2.12. Assembly of the WM Cable

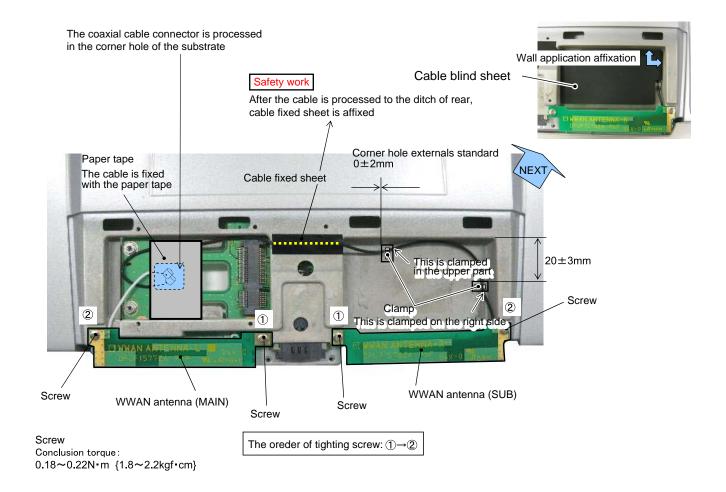


9.3.2.13. Assembly of the WWAN Board

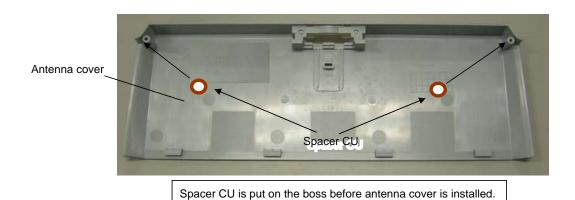


9.3.2.14. Putting Tapes for WM Cable

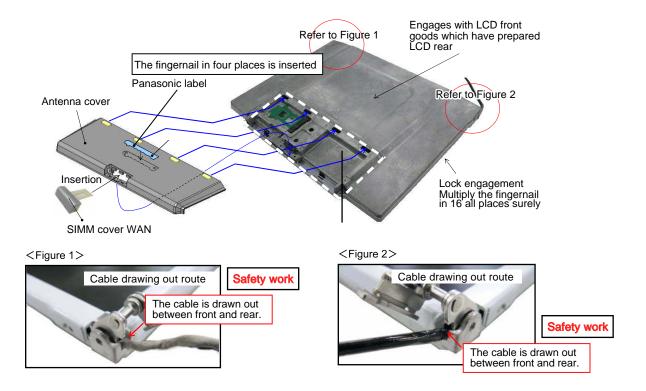




9.3.2.16. Setting Spacer CU on Antenna Cover

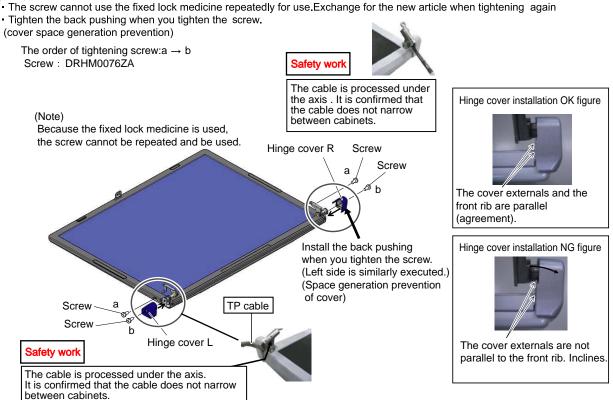


9.3.2.17. Assembly of the LCD Rear



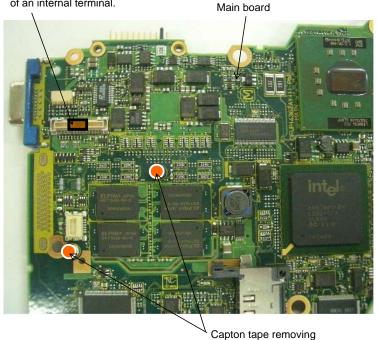
9.3.2.18. Assembly of the Hinge Cover (L), (R)

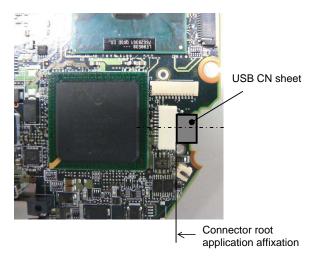
(Note)

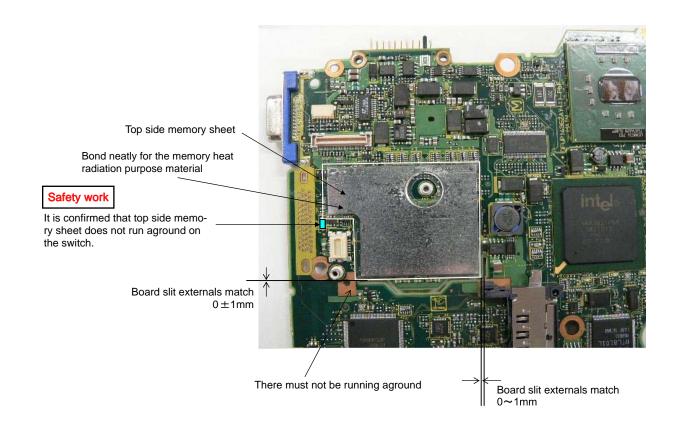


9.3.3. Assembly knowhow of the Main Board 9.3.3.1. Putting tapes for Memory Sheet of top side

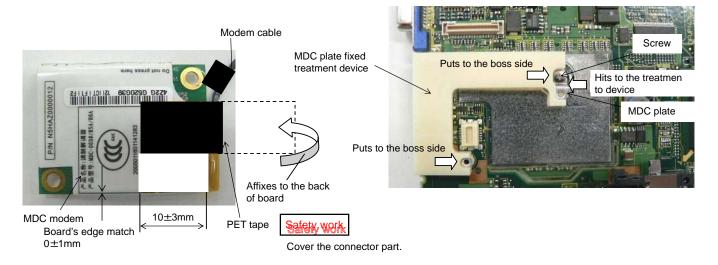
Removes with tweezers etc. (note)
It is noted that there is no damage of an internal terminal.





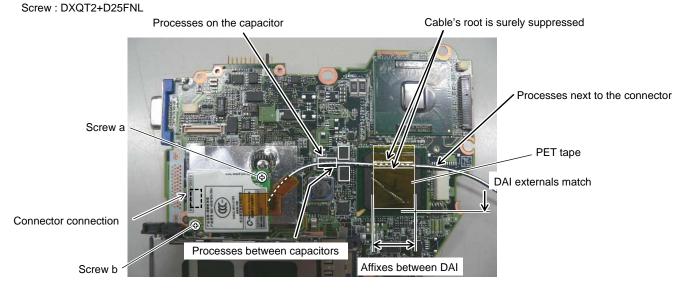


9.3.3.2. Assembly of the MDC MODEM

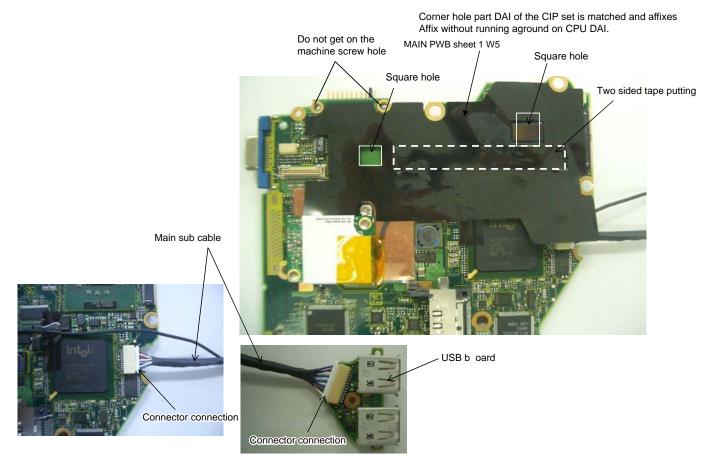


9.3.3.3. Putting PET tapes

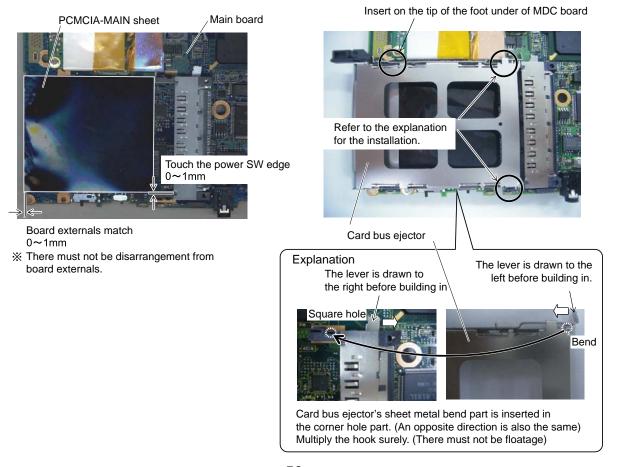
• The order of tightening screw : $a \rightarrow b$



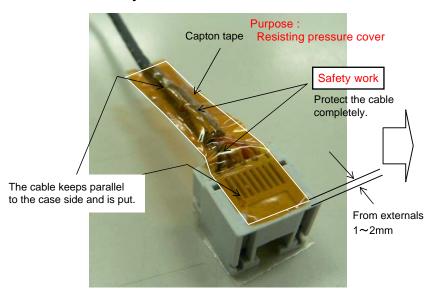
9.3.3.4. Putting Main PW Sheet

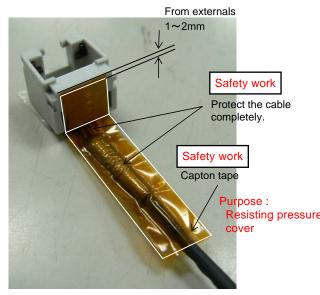


9.3.3.5. Assembly of the PCMCIA Ejector

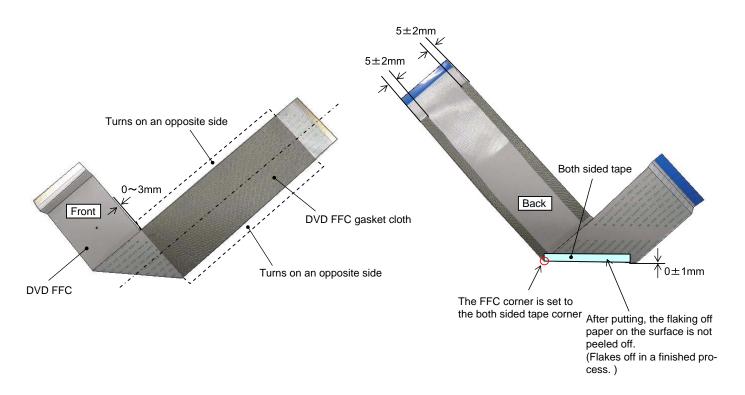


9.3.3.6. Assembly of the LAN Cable

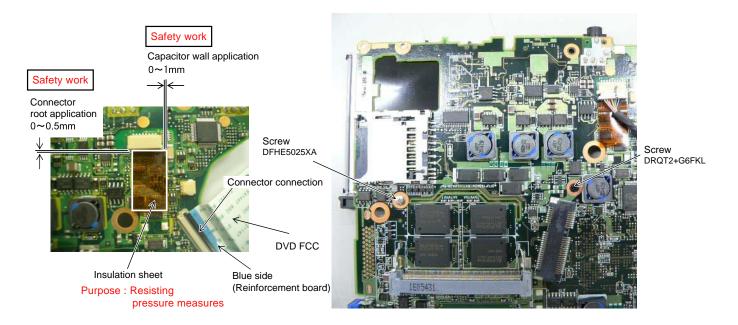




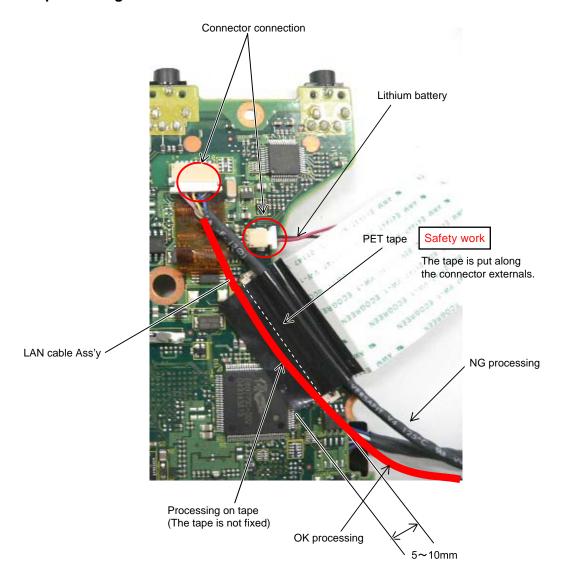
9.3.3.7. Assembly of the DVD FFC



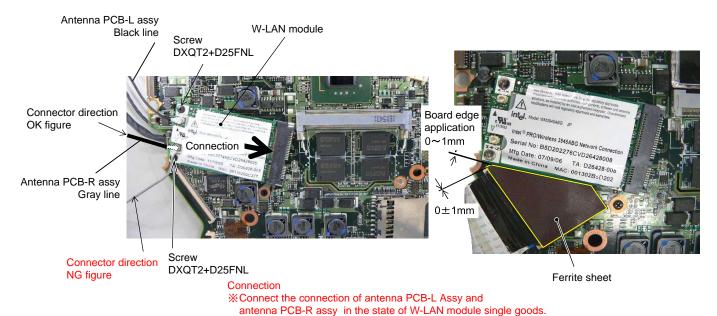
9.3.3.8. Screw tightening of Main Board



9.3.3.9. Line processing LAN cable



9.3.3.10. Assembly of the W-LAN Module / Putting Memory Heat Sheet



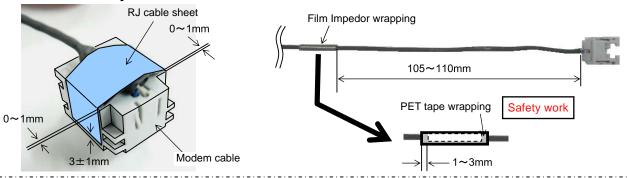
The point of contact lubricant is spread on the BATT terminal.

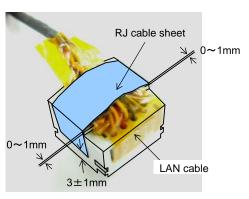
Terminal root application 0~1mm

Character

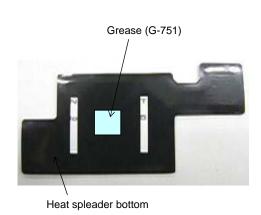
From externals 0~3mm

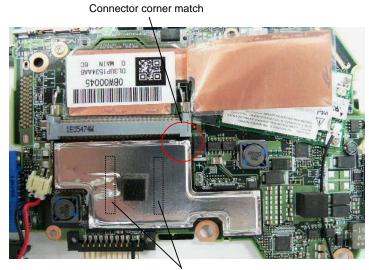
9.3.3.11. Assembly of the MODEM Cable



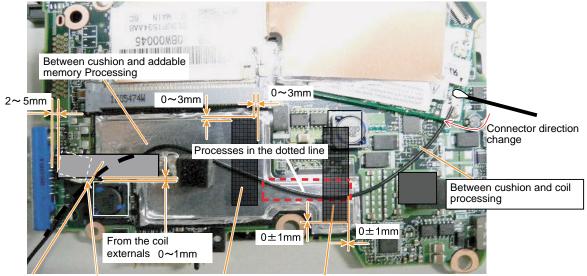


9.3.3.12. Putting Sheets





A two sided tape is pressurized.



SW cable sheet

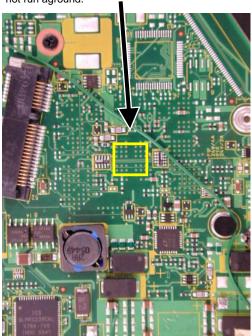
Processes between the connector and the coil

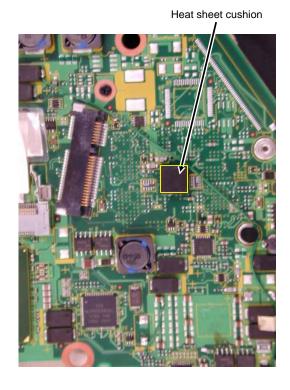
PET tape PET tape

Heat cushion is affixed in the place without the chip wireless LAN connector sideward.

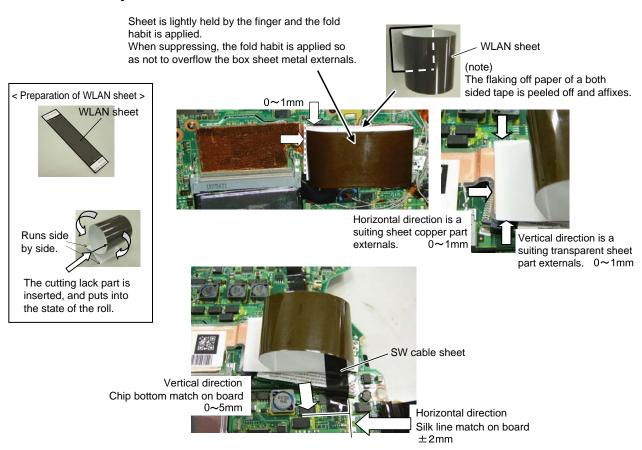
Do not run aground in the chip on side.

It is unquestionable for the inclination as long as does not run aground.

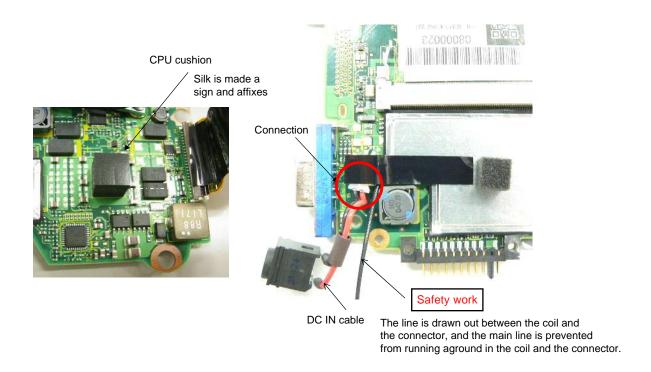


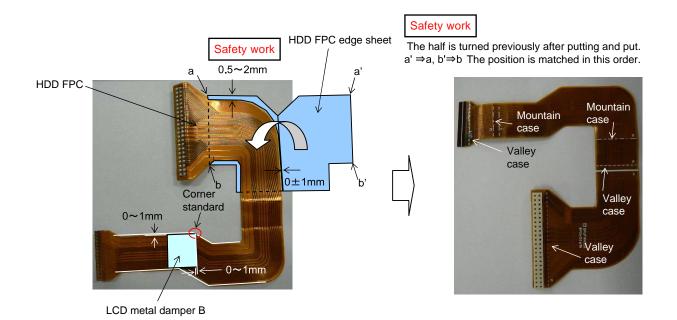


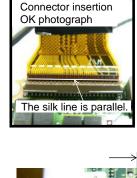
9.3.3.13. Assembly of the W-LAN Sheet

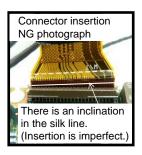


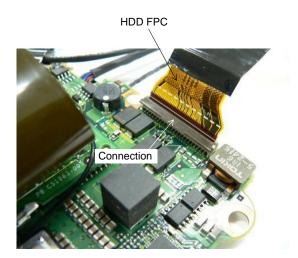
9.3.3.14. Assembly of the HDD FPC

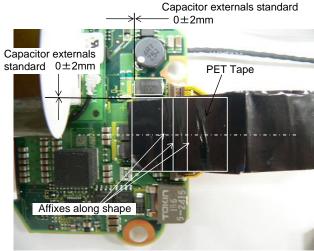




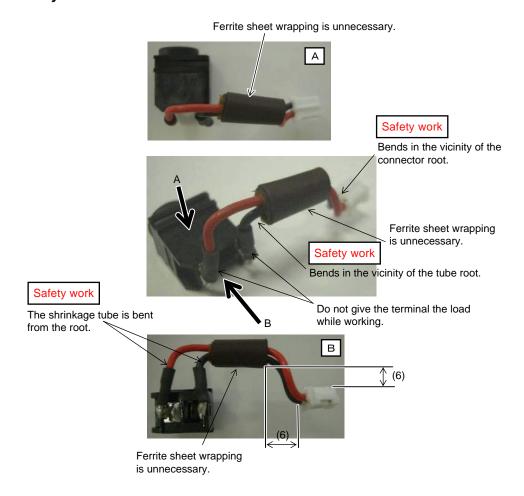




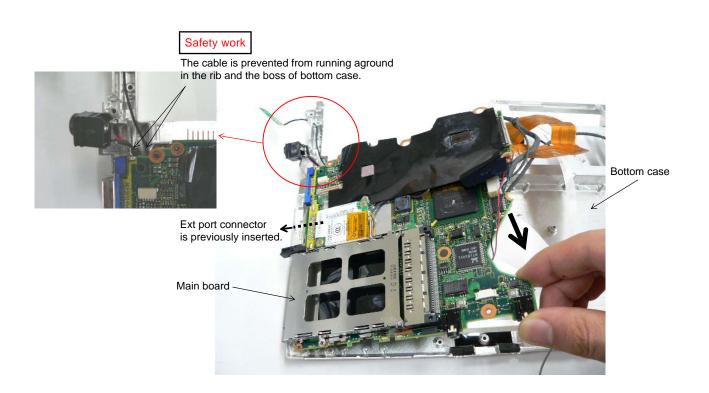


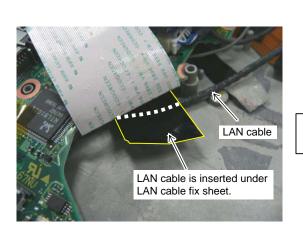


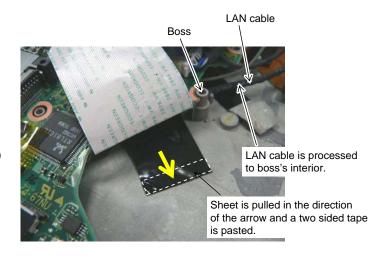
9.3.3.15. Assembly of the DC-IN Cable

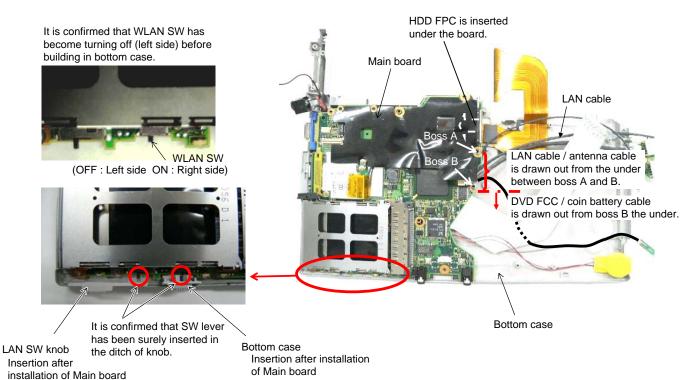


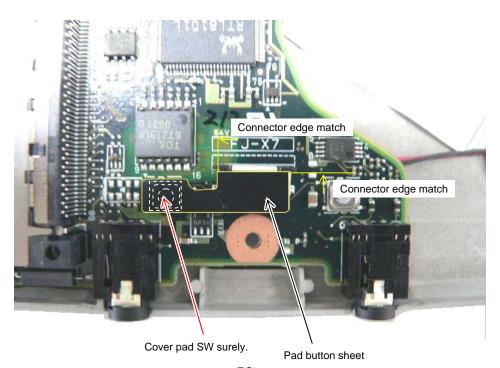
9.3.3.16. Setting the Main Board





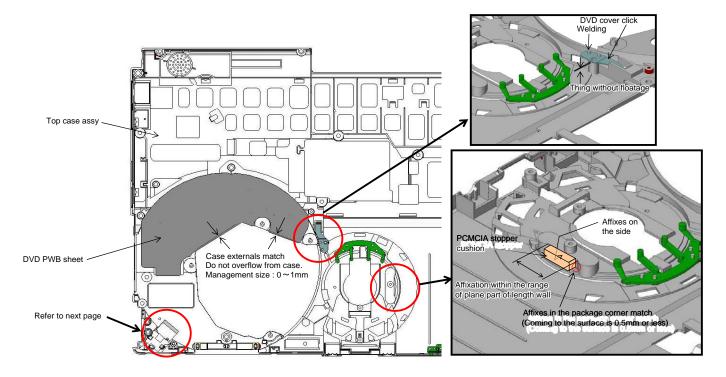




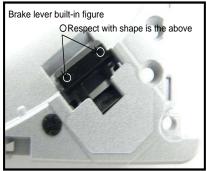


9.3.4. Assembly knowhow of the Top Case

9.3.4.1. Assembly of the DVD Cover



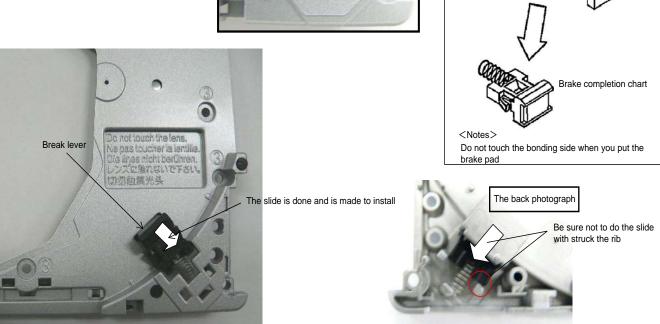
9.3.4.2. Assembly of the Break Lever



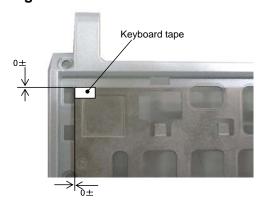
Break spring

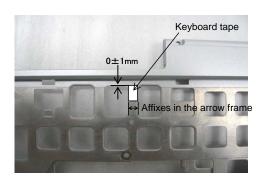
Break lever

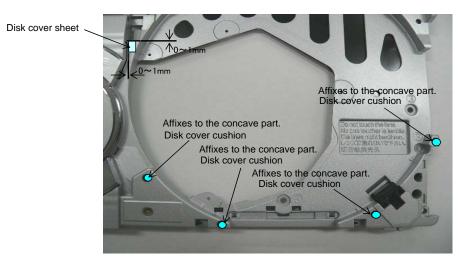
Break pad



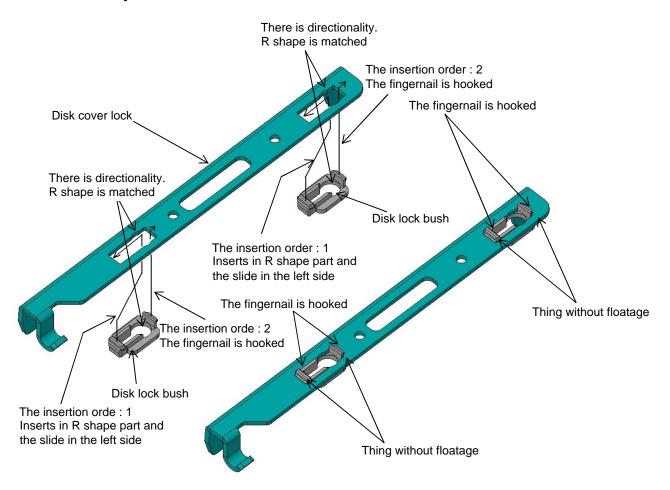
9.3.4.3. Putting Disk Cover Sheet

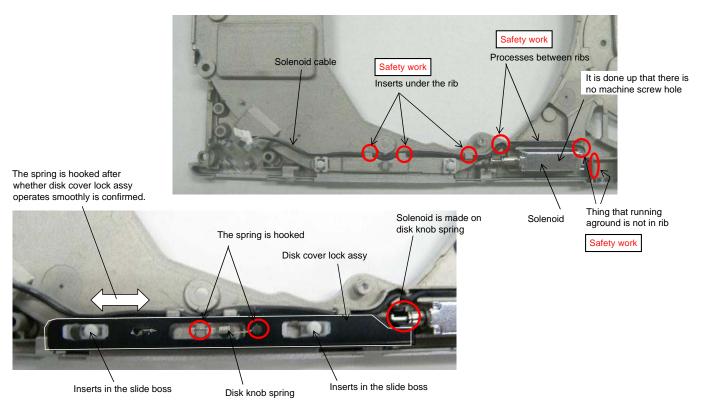






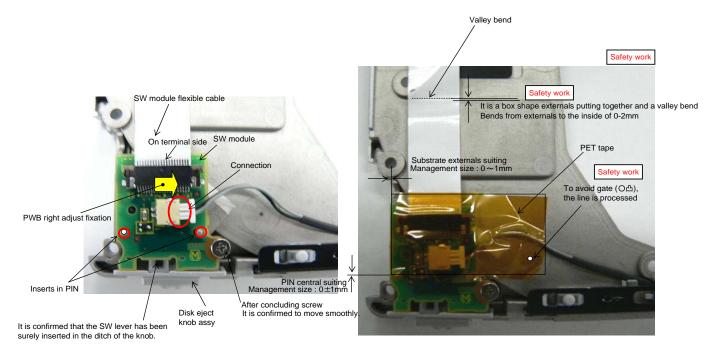
9.3.4.4. Assembly of the Disk Cover Lock



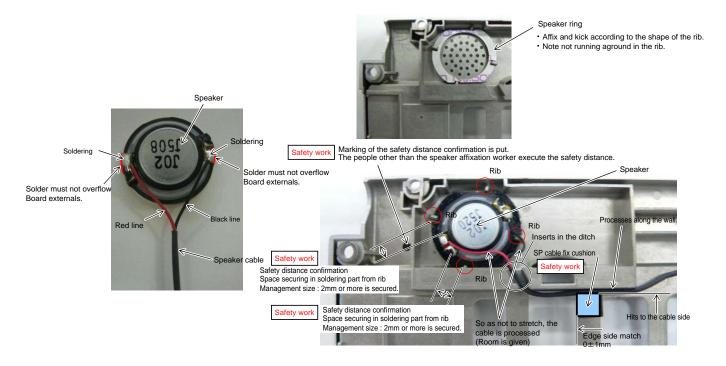


When installing and expanding because handles or transforming, it is not possible to recycle.

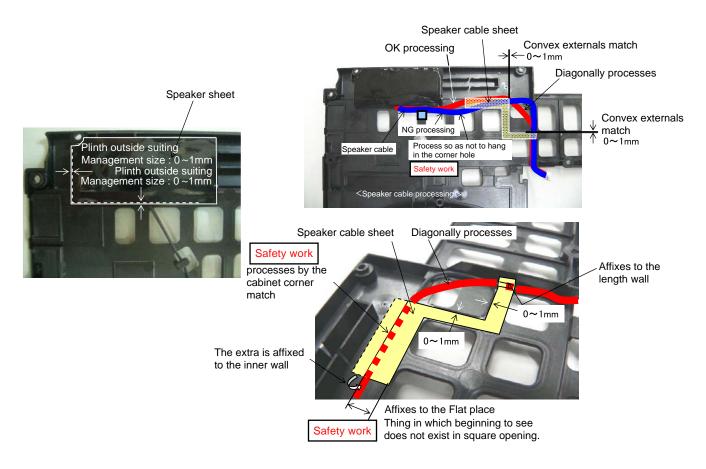
9.3.4.5. Assembly of the SW Board



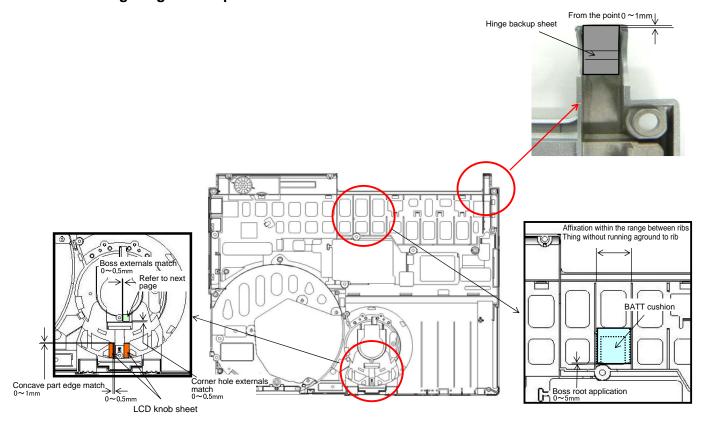
9.3.4.6. Assembly of the Speaker



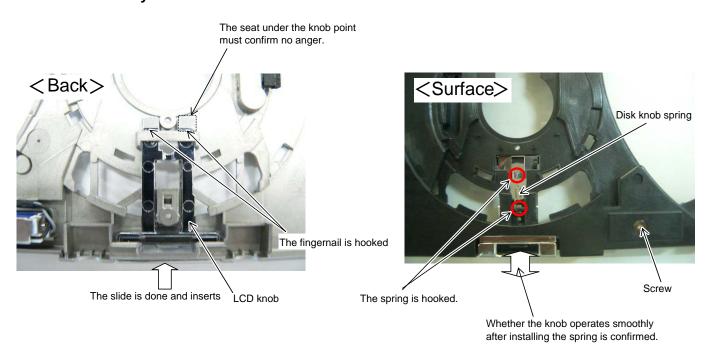
9.3.4.7. Line processing Speaker Cable and putting Speaker Sheet



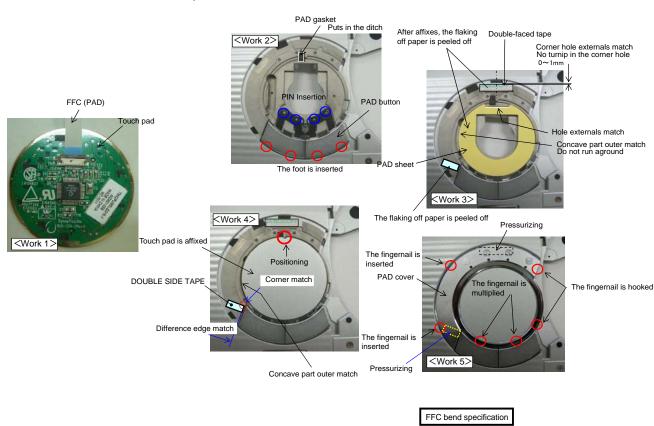
9.3.4.8. Putting Hinge Buckup Sheet and LCD Knob Sheet etc.

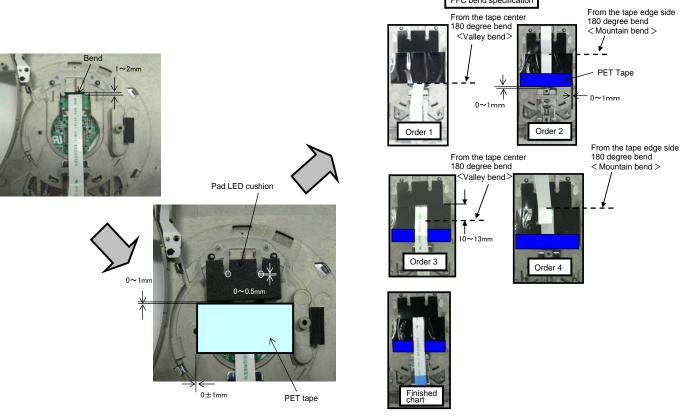


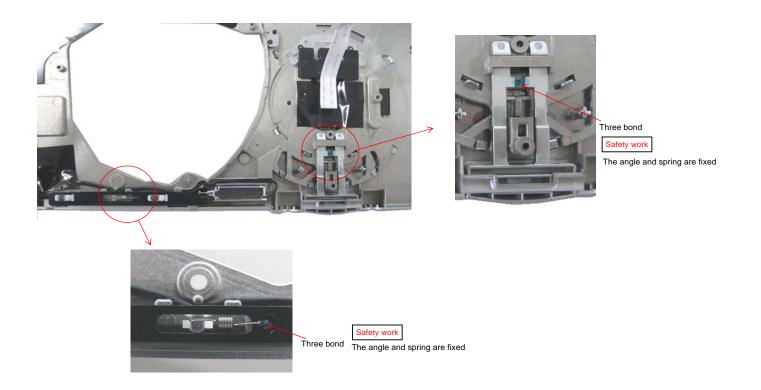
9.3.4.9. Assembly of the LCD Knob



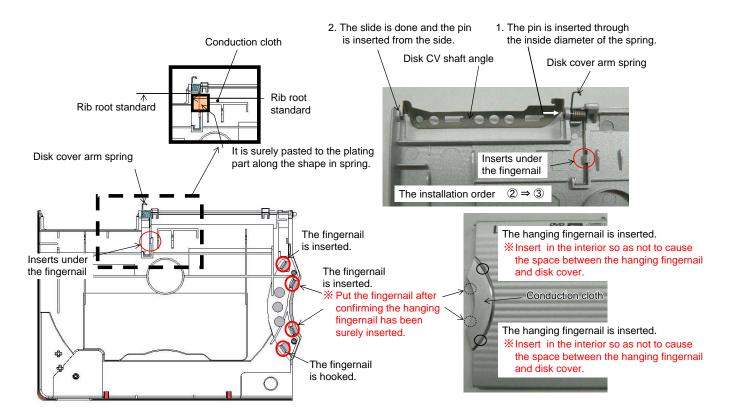
9.3.4.10. Assembly of the Touch Pad

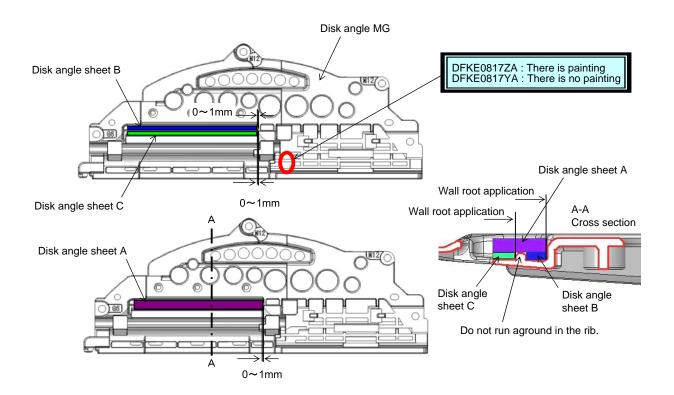


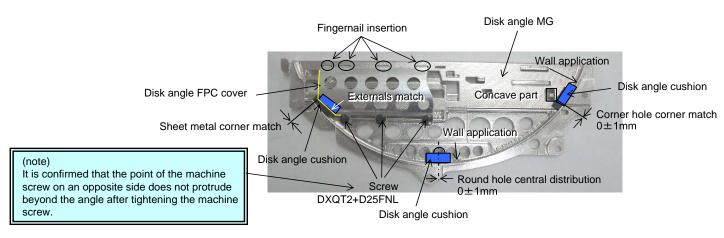


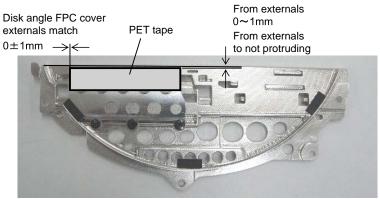


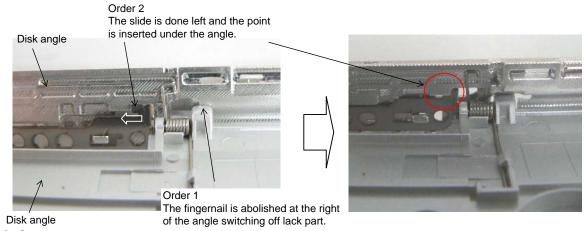
9.3.4.11. Assembly of the Disk Cover



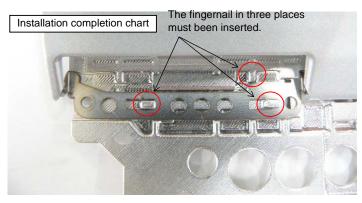






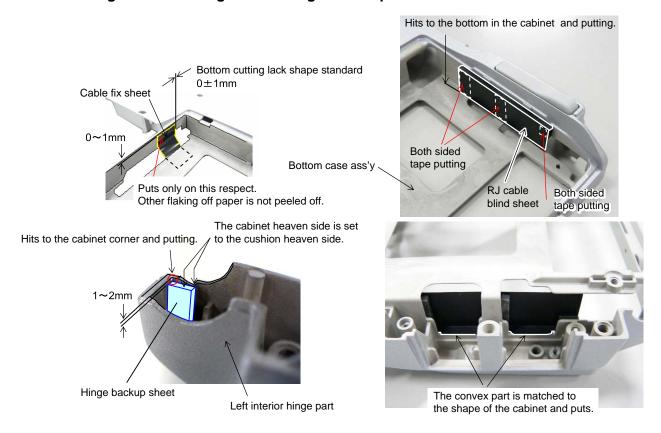




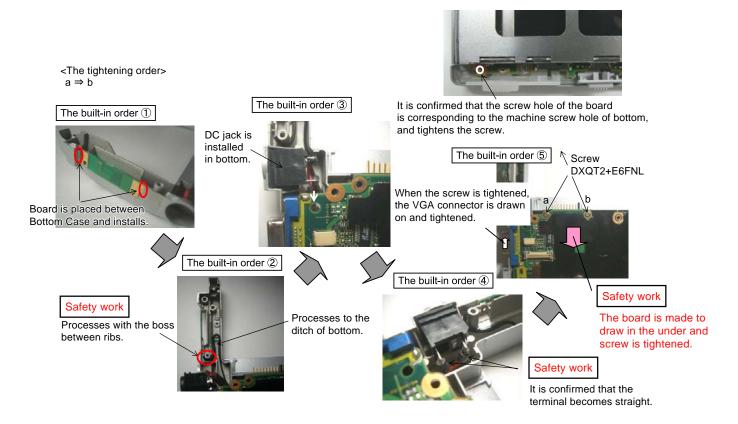


9.3.5. Assembly knowhow of the Bottom Case

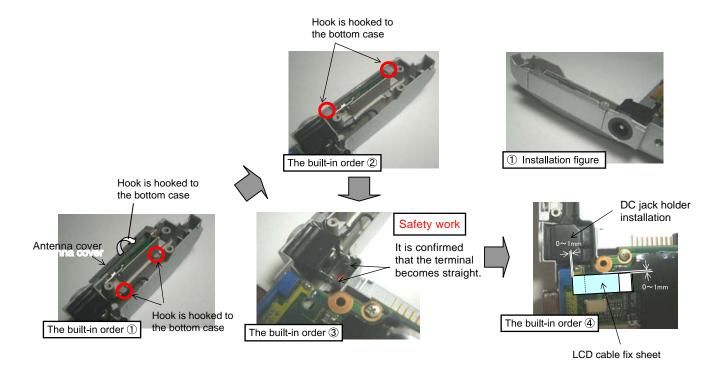
9.3.5.1. Putting RJ Cable Bling Sheet / Hinge Buck Up Sheet / Cable Fix Sheet



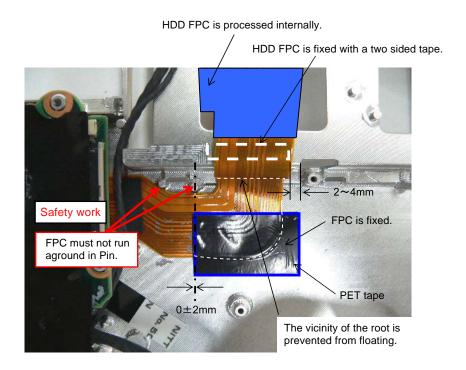
9.3.5.2. Setting Antenna Board and Line processing (1)



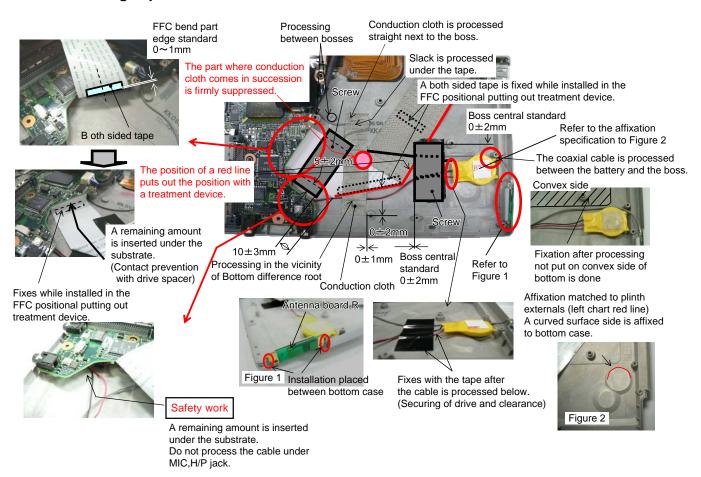
9.3.5.3. Assenbly of the Antenna Cover (L)

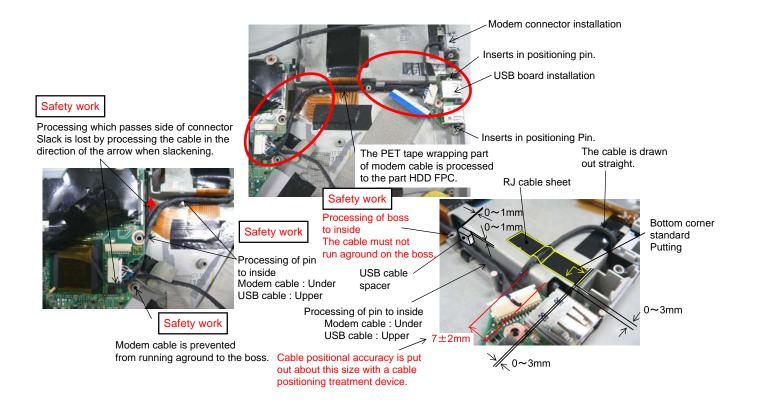


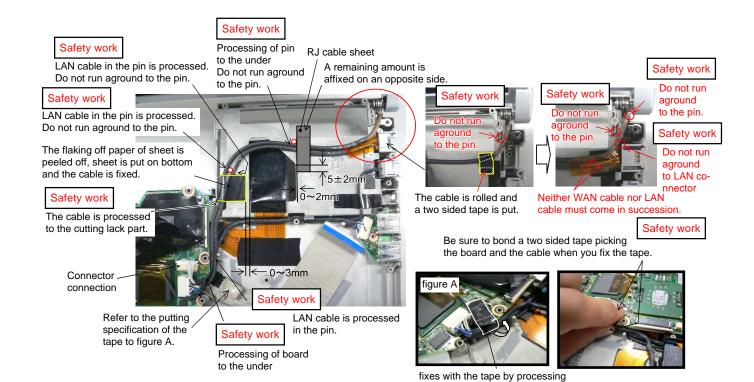
9.3.5.4. Line processing HDD FPC



9.3.5.5. Putting Tape and Sheet

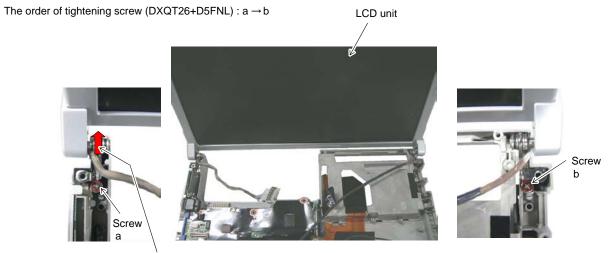






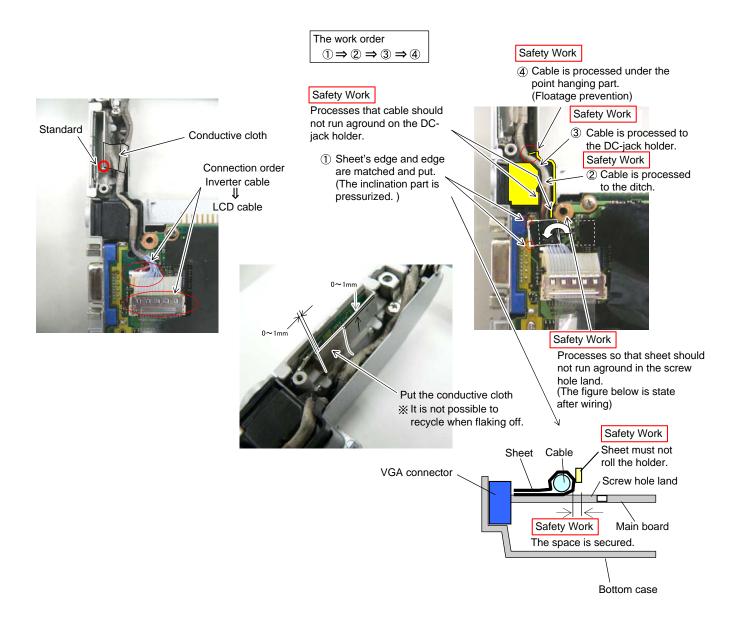
the cable internally.

9.3.6. Assembly knowhow of the Body 9.3.6.1. Setting LCD

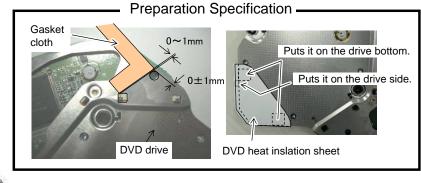


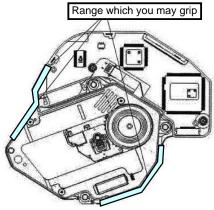
The hinge is drawn up and the screw is tightened.

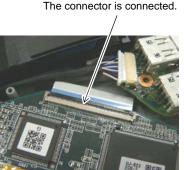
9.3.6.2. Line processing LCD Cable (bottom case side)

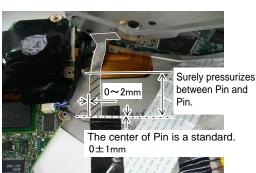


9.3.6.3. Assembly of the Top Case

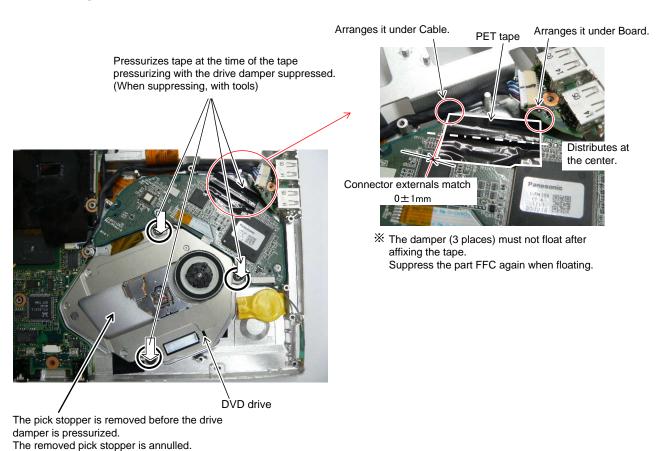


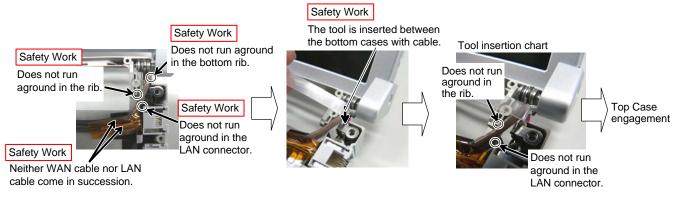


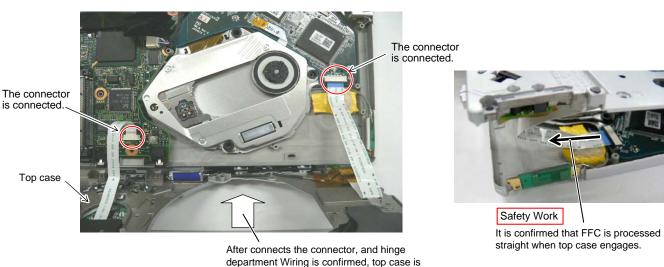




9.3.6.4. Setting Disk Cover

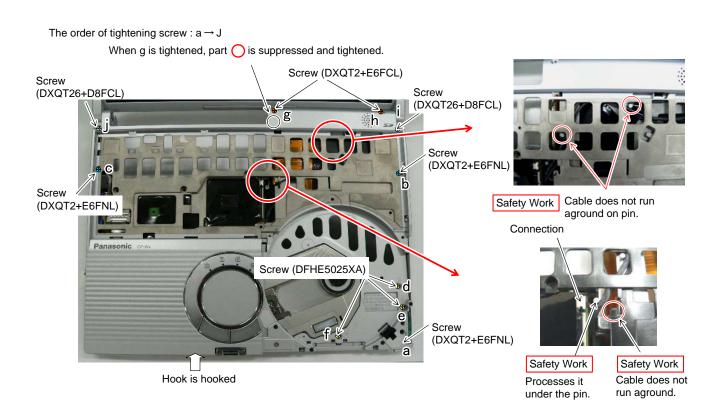




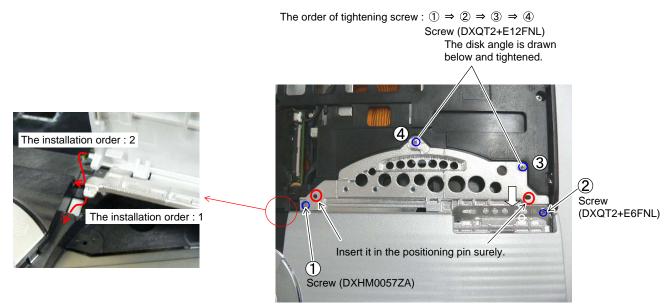


installed in the bottom case.

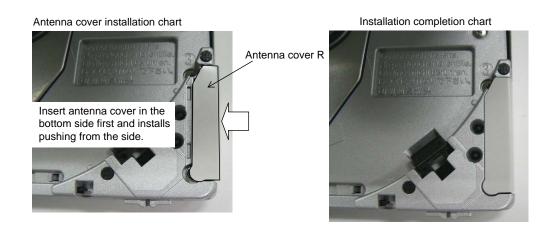
9.3.6.5. Assembly of the Top Case



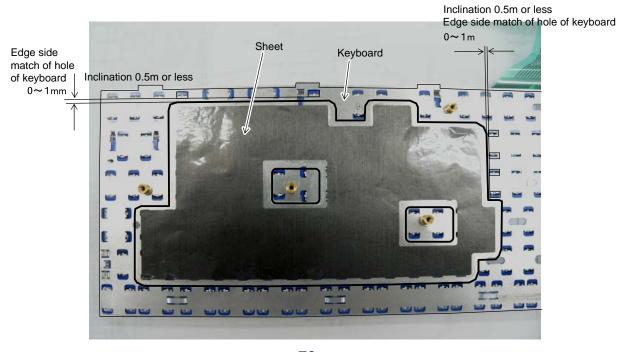
9.3.6.6. Assembly of the Disk Cover and Antenna Cover R

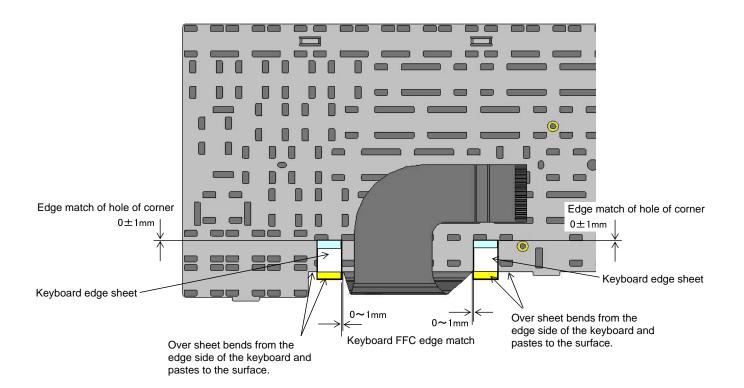


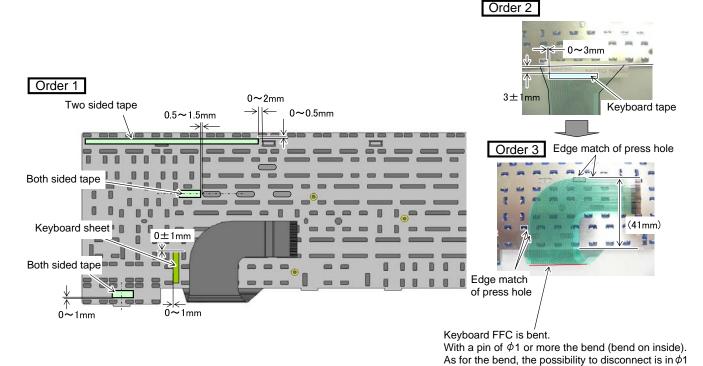
Disk cover preparation goods

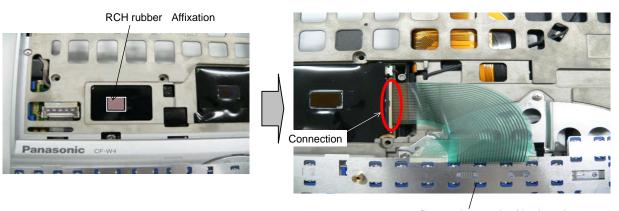


9.3.6.7. Assembly of the Keyboard



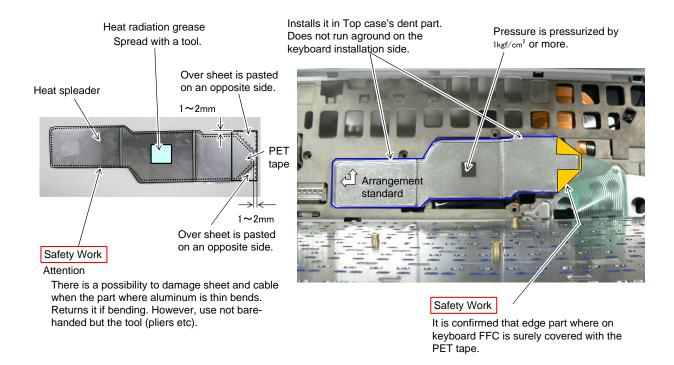






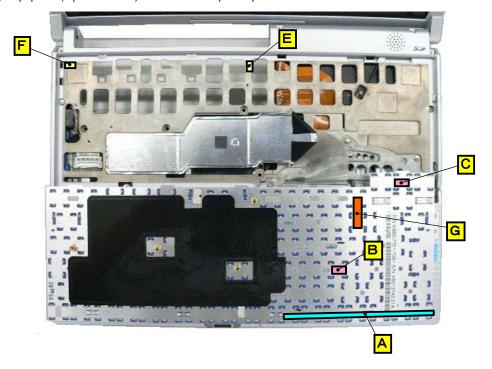
or less.

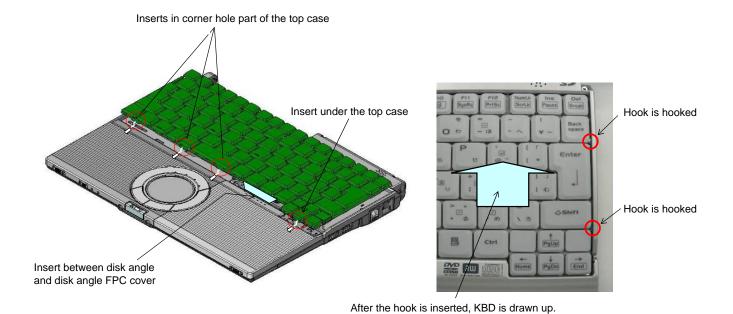
9.3.6.8. Assembly of the Heat Spreader



9.3.6.9. Setting Keyboard

The flaking off papersa (6 places A to F) of a two sided tape are peeled off.

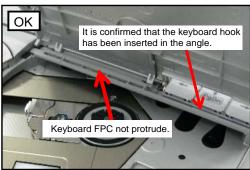


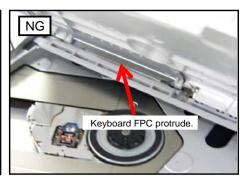


Keyboard pressurizing point

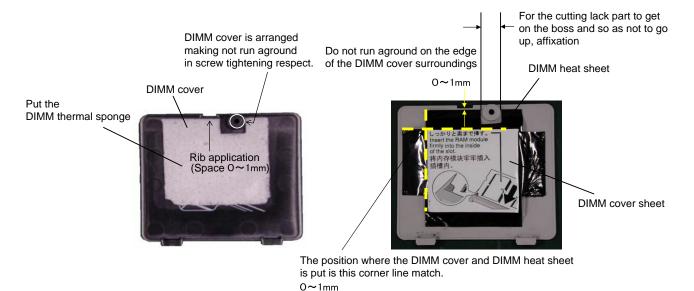


Disk Cover is opened and keyboard FPC is confirmed.

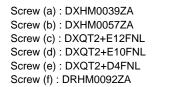




9.3.6.10. Setting DIMM Cover

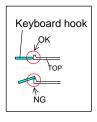


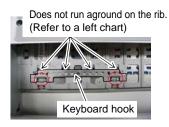
9.3.6.11. The tightening screw of Bottom Case

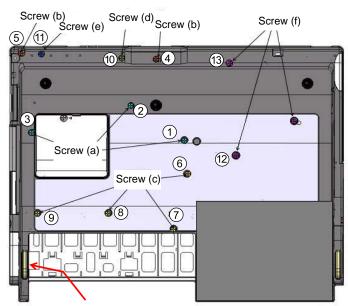


The order of tightening screw : $1 \sim 4$

When the screw is tightened, the bottom case is held and the tool is used.

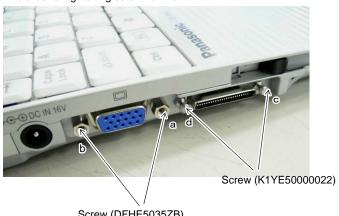




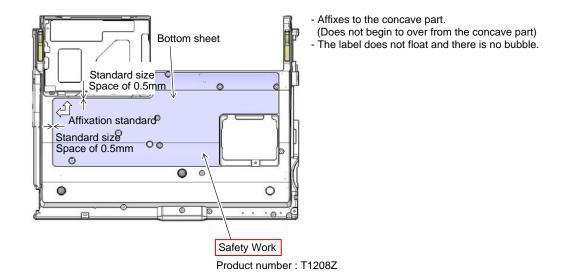


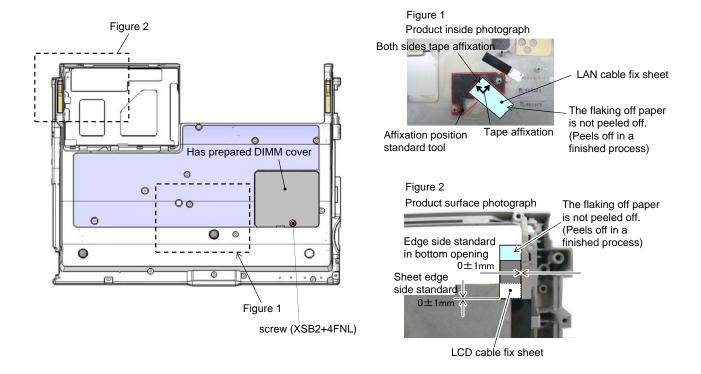
It is confirmed that cable is not narrowing with top case between the bottom cases. LCD cable is exchanged if narrowing.

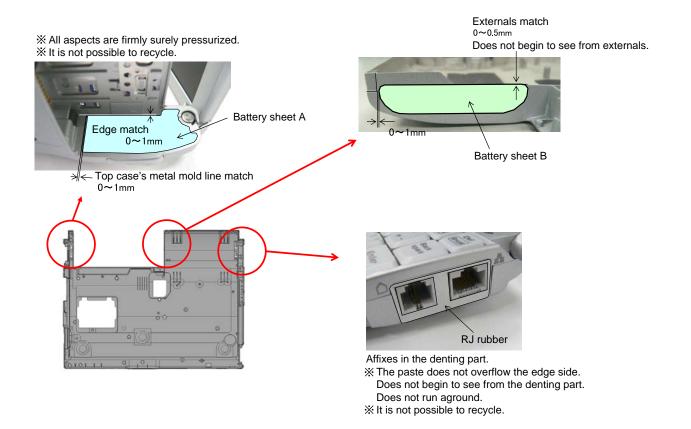
The order of tightening screw : $a \rightarrow d$



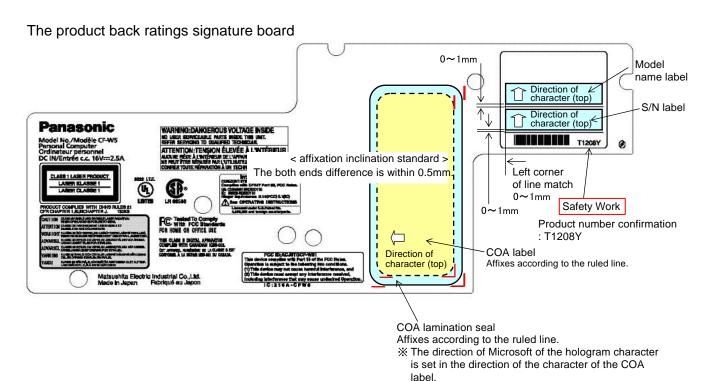
9.3.6.12. Putting Sheet

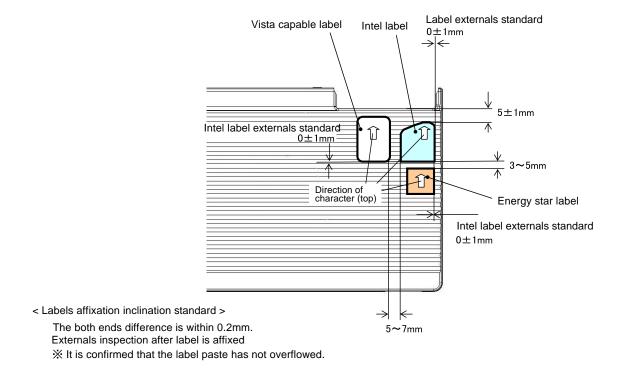




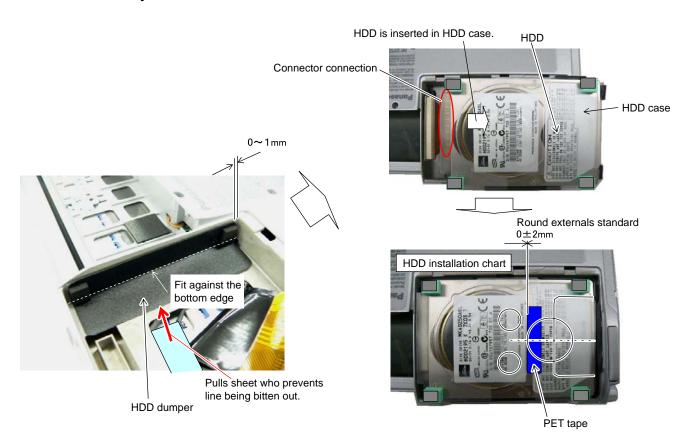


9.3.6.13. Putting Labels



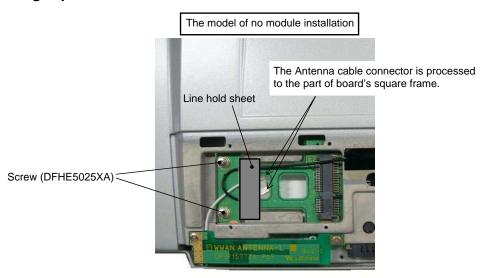


9.3.6.14. Assembly of the HDD / HDD Cover

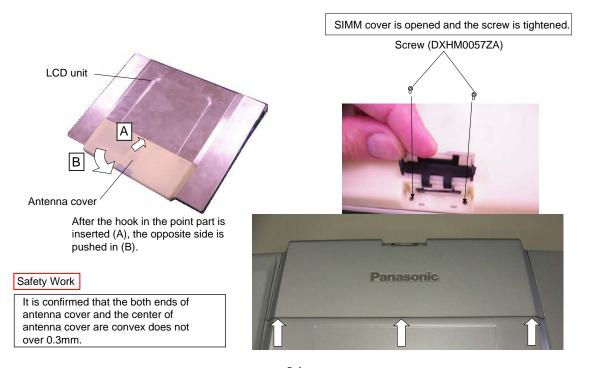


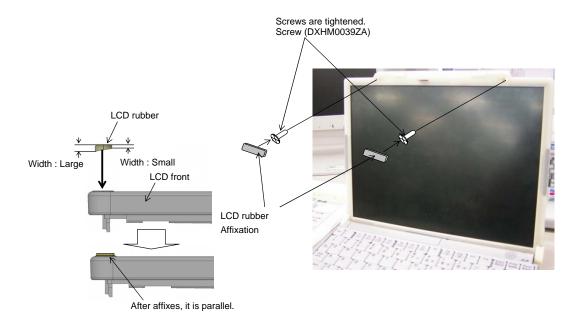


9.3.6.15. Putting Tapes for WWAN Antenna Cable



9.3.6.16. Assembly of the LCD Rear



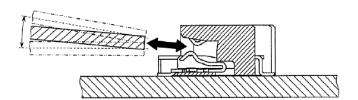


9.3.6.17. Assembly of the WWAN Module

<Notes when module is inserted>

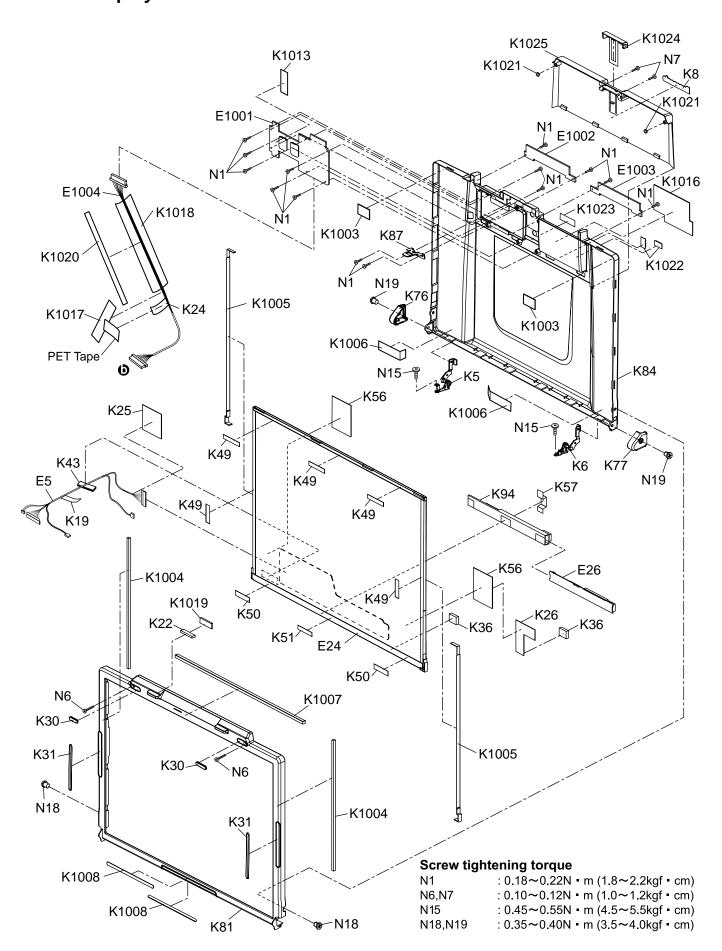
The card shall be inserted and separated correctly according to the direction and the process as shown below.

- 1. The card shall be inserted or separated with the right parallel to or inclined up to $5^{\circ} \sim 10^{\circ}$ against the mounted board.
- 2. The card shall be inserted completely.

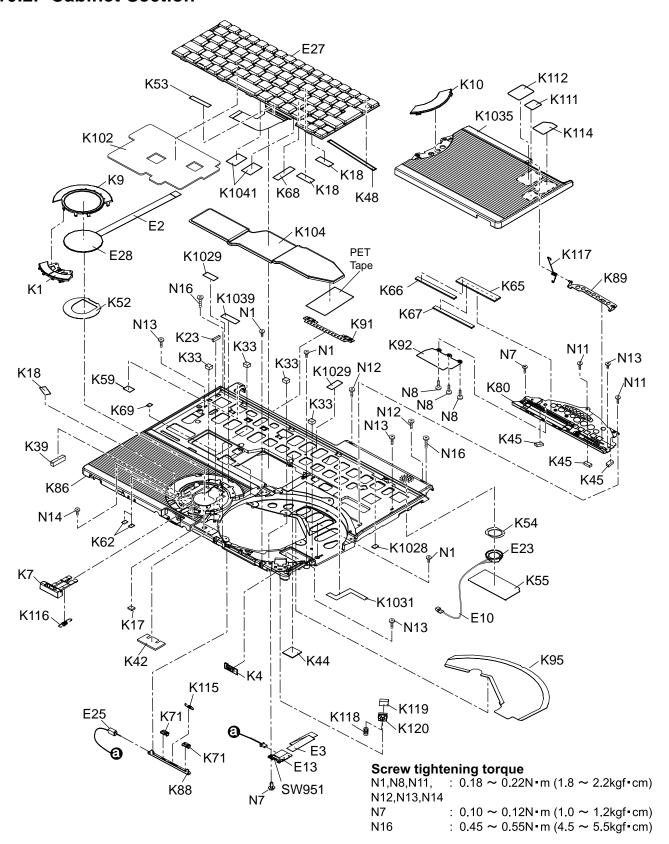


10 Exploded View

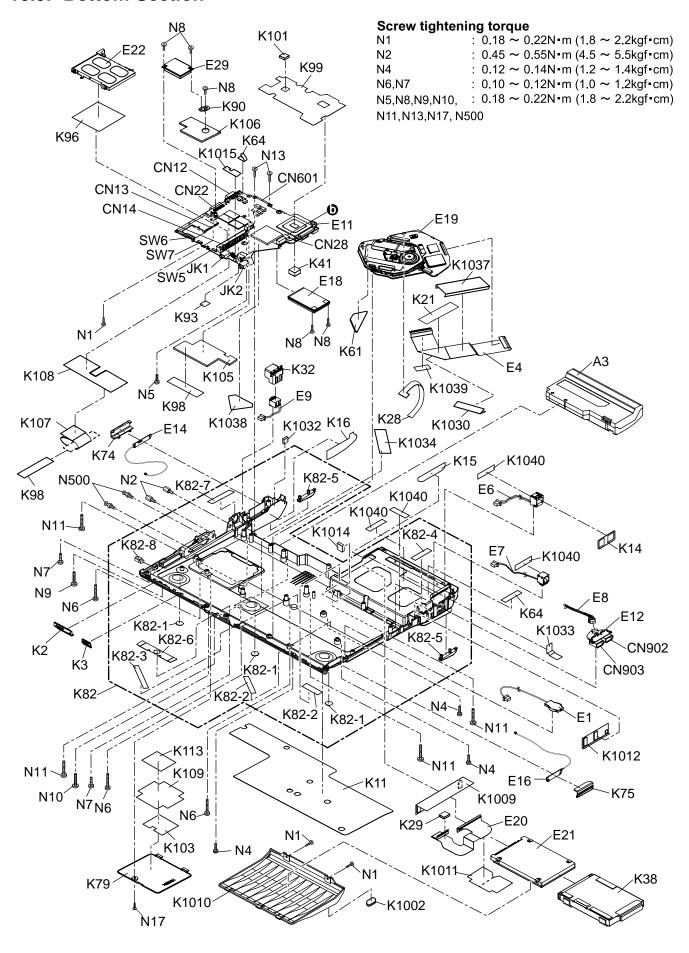
10.1. Display Section



10.2. Cabinet Section



10.3. Bottom Section



11 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-W5LWEZZBM

REF. NO an	nd				
AREA		PART NO.	DESCRIPTION		Q'TY
Main Block U	Jnit	l .		1	
E1	Δ	CR-2032/K5A	COIN BATTERY		,
E2		DFJK12U112BB	PAD FFC		
E3		DFJK20T108BB	SW PCB FFC		,
E4		DFJK9000ZA	DRIVE FFC		
E5		DFJS957ZA	LCD CABLE		
E6		DFJS979ZA	LAN CABLE		
E7		DFJS959ZC	MODEM CABLE		
E8		DFJS960ZA	MAIN SUB CABLE		
E9		DFJS1020YA	DC-IN CABLE		
E10		DFJS962ZA	SP CABLE		
E11		DL3U11534ABB	PCB, MAIN	RTL	
E12		DL3U21534ABB	PCB, USB	RTL	
E13		DL3U31534ABB	PCB, SW	RTL	
E14		N1ZYYY000002	ANTENNA PCB-L ASS'Y		
E16		N1ZYYY000001	ANTENNA PCB-R ASS'Y		
E18		N5HZC0000019	WIRELESS LAN MODULE		
E19		UJDA769PD1-A	CD-R/RW&DVD-ROM DRIVE		
E20		DL3UP1443AAA	PCB, HDD FPC UNIT		
E21		N3CAYYY00006	HDD (60GB)		
E22		K1YYZZ000060	CONNECTOR		
E23		L0AA01A00018	SPEAKER		
E24		L5EDDYY00001	LCD		
E25		L9AAA5DB0010	SOLENOID		
E26	<u> </u>	N0GB1J000012	INVERTOR		
E27		N2AZZJ000038	KEYBOARD US		
E28		N2EAYYY00008	TOUCH PAD		
E29	\triangle	N5HAZ0000014	MDC MODEM		
E1001		DL3UP1567LAA	PCB, WWAN	RTL	
E1002		DL3UP1577LAA	PCB, WLAN ANTENNA UNIT(SUB)	RTL	
E1003		DL3UP1578LAA	PCB, WLAN ANTENNA UNIT(MAIN)	RTL	
E1004		DFJS1048ZA	WM CABLE		
Accessories		T =	T	1	
A1	<u>A</u>	CFAA1623AM9	AC ADAPTOR		
A2	<u> </u>	K2CG3DR00003	AC CORD		
A3	<u>A</u>	NCR-B/602A	LITHIUM ION BATTERY PACK		
A4	Æ	DFQX5617ZA	MANUAL MODEM CARLE		
A5		DFJS1070ZA DFHR3E85ZA	MODEM CABLE EDGE PROTECTION SHEET A		
A6 A7		DFHR3E85ZA DFHG1546ZB-0	LCD RUBBER		
Packing Mate	erial	DI 110 10402D-0	LOD KODDEK		
P5		DFPK1194YA	PACKING CASE(OVERSEAS)		
P6		DFPN0846ZA	CUSHION B		
P7		DFPN0847ZA	CUSHION T		
Mechanical F	Parts		12.2		
K1		DFBC0314ZB-0	PAD BUTTON		,
K2		DFBD0180ZB-0	POWER SWITCH KNOB		
		•			

K3	DFBD0182ZA-0	LAN SWITCH KNOB	1
K4	DFBD9006ZA-0	DISK EJECT KNOB ASS'Y	<u>.</u>
K5	DFBH3056ZA	HINGE-L	1
K6	DFBH3057ZA	HINGE-R	1
K7	DFBS0076ZA-0	LCD KNOB T5 WAN1	1
K8	DFGB0089VB-0	PANASONIC LABEL	<u>·</u>
K9	DFGE0106ZB-0	PAD COVER	<u>.</u> 1
K10	DFGE0107ZB-0	PAD COVER RING	<u>.</u>
K11 🛆	DFGT1208YA	BOTTOM SHEET W5 WAN	<u>.</u>
K14	DFGX0425ZA-0	RJ COVER	
K15	DFGX0428ZA-0	BATT SHEET	<u>.</u>
K16	DFGX0429ZA-0	BATT SHEET L W4	
K17	DFHE0215ZA	SHEET	1
K18	DFHE0416ZA	DOUBLE SIDE TAPE(KBD)	3
K19	DFHE0436ZA	CLOTH LCD CABLE 1	 1
K21	DFHE0835ZA	DOUDENFU	<u>.</u>
K22	DFHE0843ZA	LCD MAGNET	
K23	DFHE0844ZA	GASKET PAD	<u>-</u>
K24	DFHE0862ZA	FILM IMPEDOR	<u>-</u> 1
K25	DFHE0943ZA	GASKET CLOTH(LCD CABLE)	
K26	DFHE0945ZA	GASKET CLOTH(LCD)	1
K28	DFHE0957ZA	GASKET CLOTH	<u>-</u> 1
K29	DFHG1471YA	LCD METAL DAMPER B	1
K30	DFHG1546ZB-0	LCD RUBBER	2
K31	DFHG1766ZA-0	LCD SIDE RUBBER	2
K32	DFHG1760ZA-0	DC JACK HOLDER	1
K33	DFHG17672A-0	DISK COVER CUSHION	4
		LCD DAMPER C	2
K36 K38	DFHG1773ZA	HDD CASE WAN	<u></u>
	DFHG1936ZB		1
K39	DFHG1778ZA	PCMCIA STOPPER CUSHION	1
K41 K42	DFHG1786ZA	CPU CUSHION	1
	DFHG1787ZA	MINI-PCI CUSHION	1
K43	DFHG1797ZA	REAR DAMPER	1
K44	DFHG1800ZA	BATT CUSHION(W4) DISK ANGLE CUSHION	1
K45	DFHG1833ZA		3
K48	DFHP7180ZA	LCD TAPE E	
K49	DFHP7208YA	LCD FRONT TAPE A	5
K50	DFHP7209ZA	LCD FORNT TAPE B	2
K51	DFHP7210ZA	LCD FRONT TAPE C	1
K52	DFHP7221YA	PAD SHEET	1
K53	DFHP7226ZA	KB FPC TAPE	1
K54	DFHR3A37ZB	SPEAKER RING	1
K55	DFHR3A38ZA	SPEAKER BOX	1
K56	DFHR3A78ZA	LCD INSULATOR	2
K57	DFHR3A95ZA	INVERTER TAPE	1
K59	DFHR3B19ZA	HINGE BACKUP SHEET	1
K61	DFHR3B86ZA	DVD HEAT INSULATION PACK	1
K62	DFHR3C14ZA	LCD KNOB SPACER	2
K64	DFHR3C33ZA	LCD CABEL FIX SHEET	2
K65	DFHR3C36ZA	DISK ANGLE SHEET A	1
K66	DFHR3C37ZA	DISK ANGLE SHEET B	1
K67	DFHR3C38ZA	DISK ANGLE SHEET C	1
K68	DFHR3C39ZA	KB SHEET	1
K69	DFHR3C40ZA	DISK COVER SHEET	1
K71	DFHR6188ZA	DISK LOCK BUSH	2
K74	DFKE0772ZA-0	ANTENNA COVER-L	1
K75	DFKE0773ZA-0	ANTENNA COVER-R	1
K76	DFKE0877ZA-0	HINGE COVER L	1

K77	DFKE0878ZA-0	HINGE COVER R	1
K79	DFKE0815ZA-0	DIMM COVER LIGHT	1
K80	DFKE0817ZA	DISK ANGLE	<u>1</u> 1
K81	DFKF0274ZA-0	LCD FRONT WAN	1
K82 🗥	DFKF8165XA-0	BOTTOM CASE ASS'Y	1
K82-1		FOOT RUBBER	
K82-2	DFHG371ZA-1 DFHP7106YA	BOTH SLDES TAPE	3
		LINE HOLD SHEET	<u>_</u> 1
K82-3	DFHR3B18ZA		
K82-4	DFHR3C13ZA	RJ CABLE SHEET	1
K82-5	DFKL0029ZA-0	FOOT RUBBER BACK WAN	2
K82-6	DFMX1174ZA	AUDIO JACK SHEET	1
K82-7	DFMX1251ZA	BOTTOM CABLE SHEET	1
K82-8	DFGL0138ZA-0	SD LENZ	1
K84	DFKM0523ZA-0	LCD REAR WAN	1
K86	DFKM8170RA-0	TOP CASE ASS'Y	1
K87	DFMD1203ZA	LCD HOOK WAN	1
K88	DFMD1190YA	DISK COVER LOCK	1
K89	DFMD2165ZA	DISK CV SHAFT ANGLE	1
K90	DFMD3121ZA	MDC PLATE	1
K91	DFMD4057ZA	KB HOOK F999	1
K92	DFMD7A63ZA	DISK ANGLE FPC COVER	1
K93	DFMX0635ZB	EDGE SHEET	1
K94	DFMX1155ZA	INVERTER BOX	1
K95	DFMX1158ZA	DVD PWB SHEET	1
K96	DFMX1160ZA	PCMCIA-MAIN SHEET	1
K98	DFMX1184ZA	SW CABLE SHEET	2
K99	DFMX1242ZA	MAIN PWB SHEET1 W5	1
K101	DFMY0399ZA	MCH RUBBER	1
K102	DFMY0421ZA	HEAT SHEET KB LARGE	1
K103	DFMY0432ZA	DIMM THERMAL SPONGE	1
K104	DFMY3191YA	HEAT SPREADER TOP	1
K105	DFMY3192ZA	HEAT SPLEADER BOTTOM	1
K106	DFMY3206ZA	MEMORY SHEET TOP	1
K107	DFMY3208ZA	WLAN SHEET	1
K108	DFMY3230ZA	MEMORY HEAT SHEET	1
K109	DFMY3231ZA	DIMM HEAT SHEET	1
K111	DFQT0045ZA	ENERGY STAR LABEL	1
K112	DFQT0046ZA	VISTA CAPABLE LABEL	1
K113	DFQT6342ZA	DIMM COVER SHEET T5	1
K114	DFQT9983ZA	CENTRINO SOLO LABEL	1
K115	DFUD0037ZA	DISK KNOB SPRING	1
K116	DFUD0040ZA	LATCH SPRING	1
K117	DFUN0078ZB	DISK COVER ARM SPRING	1
K118	JDBC0044ZA	BREAK SPRING	1
K119	JDBG0032ZA	BREAK PAD	1
K120	JDKJ0059ZA	BREAK LEVER	1
K1002	DFHG1399XA-0	LCD LEG RUBBER	1
K1003	DFHG1944ZA	LCD REAR CUSHION	2
K1004	DFHG1945ZA	LCD SIDE CUSHION	1
K1005	DFHG1946ZA	LCD DAMPER B	2
K1006	DFHG1947ZA	LCD REAR SPACER	2
K1007	DFHG1949ZA	LCD DAMPER A	1
K1008	DFHG1953ZA	LCD BATT RUBBER WAN	2
K1009	DFHG1835ZA	HDD DAMPER	1
K1010	DFKE0883ZB-0	HDD COVER WAN	1
K1011	DFHR3C19ZA	HDD FPC EDGE SHEET	1
K1012	DFHR3B99ZA	RJ CABLE BLIND SHEET	1
K1013	DFHR3E92ZA	LINE HOLD SHEET A	1
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K1014	DFHR3F77ZA	USB CABLE FIX SHEET 2	1
	DFMX1259YA	PAD BUTTON SHEET	1
	DFGX0475ZA	CABLE BLIND SHEET	<u>-</u> 1
	DFHE0463ZA	EMI SHEET 3	1
	DFHE1035ZA	WWAN EMI SHEET	1
	DFHG1965ZA	MAGNET SPACER	1
	DFHP7272ZA	WWAN TAPE	1
	DFHR3416ZA	SPACER CU	2
	DFHR5484ZA	CLAMP	2
	DFHR8526ZA	CABLE FIXED SHEET	1
	DFKE0879ZA-0	SIMM COVER WAN	1
	DFKF0275ZB-0	ANTENNA COVER	1
K1028	DFHG1834ZA	SP CABLE FIX CUSHION	1
K1029	DFHP7231ZA	KBD TAPE	2
K1030	DFHP7106ZA	K/B FIXED TAPE	1
K1031	DFHR3C12ZA	SP CABLE SHEET	1
K1032	DFHR3C54ZA	HINGE BACKUP SHEET	1
K1033	DFHR3E90ZA	LINE HOLD SHEET(WM)	1
K1034	DFHR3F69ZA	LAN HOLD SHEET	1
K1035	DFKM0483PA-0	DISK COVER	1
K1037	DFHE1029ZA	DVD FFC GASKET CLOTH	1
	DFHE1030ZA	FERRITE SHEET	1
	DFHP7106YA	BOTH SLDES TAPE	2
	DFHR3C13ZA	RJ CABLE SHEET	4
K1041	DFHR3C18ZA	KB EDGE SHEET	2
N1	DFHE5025XA	SCREW	20
N2	DFHE5035ZB	SCREW	2
N4	DRHM0092ZA	SCREW	3
N5	DRQT2+G6FKL	SCREW	1
N6	DXHM0039ZA	SCREW	5
N7	DXHM0057ZA	SCREW	6
N8	DXQT2+D25FNL	SCREW	8
N9	DXQT2+D4FNL	SCREW	1
	DXQT2+E10FNL	SCREW	1
	DXQT2+E12FNL	SCREW	6
	DXQT2+E6FCL	SCREW	2
	DXQT2+E6FNL	SCREW	6
	DXQT2+F2FNL	SCREW	1
	DXQT26+D5FNL	SCREW	2
	DXQT26+D8FCL	SCREW	2
	XSB2+4FNL	SCREW	<u></u>
	DRHM0076ZA	SCREW	
	DRHM0108ZA	SCREW	2
1 110	DK DIVIO LUCZ A	ISCREVV I	

Replacement Parts List

Note: Important Safety Notice

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

CF-W5LWEZZBM (06-11-16)

CF-W5LWEZZBM (06-11-			
REF. NO and AREA	PART NO.	DESCRIPTION	Q'TY
MAIN PCB			
C 657	EEFCD0D101ER	CAPACITOR, 2V, 100μF	2
C 696			
C 5	EEFCX0D221R	CAPACITOR, 2V, 220µF	6
C 60			
C 61			
C 69			
C 89			
C 185			
C 630	EEFCX0G151R	CAPACITOR, 2V, 150µF	2
C 675			
C 224	EEFCX0J101R	CAPACITOR, 6.3V, 100µF	3
C 611			
C 612			
C 181	EEFSX0D331ER	CAPACITOR, 2V, 330µF	5
C 676			
C 698			
C 708			
C 709			
C 223	EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	1
C 264	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	7
C 265	1 1003224A001	CAFACITOR, 0.3V, 0.22μι	,
C 333			
C 334			
C 335			
C 336			
C 366			
C 53	F1G1A104A014	CAPACITOR, 10V, 0.1µF	9
C 54			
C 165			
C 166			
C 337			
C 342			
C 343			
C 344			
C 345			
C 73	F1G1A474A018	CAPACITOR, 10V, 0.47µF	4
C 76		ονα νιστι στις το τις στιν μ ι	·
C 88			
C 91			
	F1C1A692A014	CARACITOR 40V 0.000.F	1
C 400	F1G1A683A014	CAPACITOR, 10V, 0.068µF	
C 9	F1G1C104A042	CAPACITOR, 16V, 0.1µF	158
C 10			
C 14			
C 18			
C 22			
C 27			
C 50			

C 51 C 52 C 57 C 64 C 65 C 66 C 66 C 68 C 71 C 88 C 71 C 88 C 90 C 92 C 92 C 95 C 96 C 99 C 100 C 101 C 102 C 105 C 106 C 107 C 108 C 111 C 112 C 114 C 115 C 118 C 119 C 119 C 127 C 128 C 135 C 136 C 137 C 144 C 145 C 146 C 147 C 148 C 146 C 147 C 148 C 168 C 169 C 107 C 177 C 177 C 178 C 168 C 169 C 177 C 182 C 183 C 189 C 199 C 191 C 192 C 193				
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C 640	
C 46 F1G1E103A062 CAPACITOR, 25V, 0.01µF	23
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C 716			
C 642	F1G1H121A495	CAPACITOR, 50V, 120pF	1
C 701	F1G1H152A496	CAPACITOR, 50V, 1500pF	1
C 646	F1G1H182A496	CAPACITOR, 50V, 1800pF	1
C 159	F1G1H220A542	CAPACITOR, 50V, 22pF	8
C 160	1 1011122371012	67 ti 71611 611, 66 V, 22pi	Ŭ
C 620			
C 623			
C 628			
C 667			
C 683			
C 686			
C 600	F1G1H221A495	CAPACITOR, 50V, 220pF	9
C 621			
C 648			
C 661			
C 666			
C 672			
C 679			
C 684			
C 685			
C 49	F1G1H222A496	CAPACITOR, 50V, 2200pF	2
C 251			
C 226	F1G1H330A542	CAPACITOR, 50V, 33pF	9
C 227		, , ,	
C 281			
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C 715	F1G1H331A496	CAPACITOR, 50V, 330pF	1
C 213	F1G1H3R0A543	CAPACITOR, 50V, 3pF	2
C 215			
C 120	F1G1H3R3A543	CAPACITOR, 50V, 3.3pF	2
C 121			
C 411	F1G1H470A542	CAPACITOR, 50V, 47pF	2
C 412			
C 367	F1G1H471A496	CAPACITOR, 50V, 470pF	2
C 439			
C 643	F1G1H561A496	CAPACITOR, 50V, 560pF	1
C 320	F1G1H5R0A543	CAPACITOR, 50V, 5pF	2
C 324			
C 242	F1G1H8R0A544	CAPACITOR, 50V, 8pF	2
C 248			
C 81	F1H0J1050022	CAPACITOR, 6.3V, 1µF	11
C 82			
C 83			
C 84			
C 86			1
C 129			
C 155			
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C 156				
C 157				
C 158				
C 391				
C 55	F	1H1A1050015	CAPACITOR, 10V, 1µF	39
C 56				
C 67				
C 78				
C 79				
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C 103				
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C 338				
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C 606				
C 694				
C 702				
C 617	F	1H1H103A748	CAPACITOR, 50V, 0.01µF	2
C 627			·	
C 601	F	1H1H104A731	CAPACITOR, 50V, 0.1µF	1
C 616		1H1H104A748	CAPACITOR, 50V, 0.1µF	16
C 618				
C 625				
C 659				
C 662				
C 669				
C 678				
C 678				
C 688				
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C 700			
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C 704			
C 719			
C 732			
C 671	F1H1H182A748	CAPACITOR, 50V, 1800pF	2
C 680			
C 645	F1H1H1830001	CAPACITOR, 50V, 0.018µF	1
C 720	F1H1H222A748	CAPACITOA, 50V, 2200pF	1
C 660	F1H1H472A748	CAPACITOR, 50V, 4700pF	2
	F1H1H472A740	CAPACITOR, 50V, 4700PF	2
C 690	E4 10 14 00 4 0 4 0	OADAOITOD OOV 10-F	
C 45	F1J0J106A016	CAPACITOR, 6.3V, 10µF	30
C 48			
C 58			
C 59			
C 62			
C 63			
C 70			
C 72			
C 74			
C 87			
C 93			
C 167			
C 176			
C 206			
C 244			
C 244			
C 250			
C 254			
C 297			
C 303			
C 304			
C 325			
C 339			
C 368			
C 395			
C 441			
C 446			
C 447			
C 668			
C 695			
C 3	F1J0J226A051	CAPACITOR, 6.3V, 22µF	8
C 13	. 1000225,1001	σ	
C 15			
C 29			
C 33			
C 34			
C 37			
C 41			
C 77	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	11
C 80			
C 149			
C 150			
C 279			
C 330			
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C 341			
C 370			
C 372			
C 373			
C 374			
C 235	F1J0J475A009	CAPACITOR, 6.3V, 4.7µF	6
C 624		·	
C 649			
C 687			
C 718			
C 733			
C 263	F1J1A1050021	CAPACITOR, 10V, 1µF	1
C 608	F1J1E104A081	CAPACITOR, 25V, 0.1µF	1
C 607	F1J1E105A009	CAPACITOR, 25V, 0.1µF	1
C 650	F1J1H224A533	CAPACITOR, 50V, 0.22µF	1
C 614	F1K1E106A078	CERAMIC CAPACITOR	4
C 706			
C 707			
C 722		0.0.0.000000000000000000000000000000000	
C 354	F1L0J107A016	CAPACITOR, 6.3V, 100µF	2
C 356			
C 603	F1L1E106A021	CAPACITOR, 25V, 10µF	9
C 629			
C 651			
C 652			
C 658			
C 673			
C 677			
C 693			
C 705			
C 329	F1L3D102A003	CAPACITOR, 2000V, 1000pF	1
CF 1	D4CC1103A038	THERMISTOR	1
CN 2	K1MMH2B00003	CONNECTOR	1
CN 3	K1KA02BA0014	CONNECTOR	2
CN 26			
CN 4	K1MN45AA0044	CONNECTOR	1
CN 10	K1KA05BA0014	CONNECTOR	1
CN 16	K1KA08BA0014	CONNECTOR	1
CN 11	K1KB30AA0049	CONNECTOR	1
CN 12	K1FB315BA003	CONNECTOR	1
CN 13	K1NA09E00076	CONNECTOR	1
CN 14	K1NA68E00096	CONNECTOR	1
CN 15	K1MY26BA0001	CONNECTOR	1
CN 15	K1KB12A00099	CONNECTOR	1
CN 19	K1MY52BA0190	CONNECTOR	1
CN 21	K1MN12BA0134	CONNECTOR	1
CN 23	K1KA20BA0114	CONNECTOR	1
CN 22	K1FY150BA007	CONNECTOR	1
CN 25	K1MN60B00008	CONNECTOR	1
CN 28	K1KA12BA0014	CONNECTOR	1
CN 600	K1KA02B00247	CONNECTOR	1
CN 601	K1KA10B00233	CONNECTOR	1
D 7	B0ADDH000004	DIODE	6
D 8			
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D 9			

D 000		l	1	ĺ
D 602				
D 604		B0 ICCE00000	DIODE	
D 628		B0JCCE000008	DIODE	2
D 639 D 609		B0JCMD000014	DIODE	7
D 609		B03CWD000014	DIODE	'
D 624				
D 626				
D 627				
D 629				
D 630				
D 600		B0JCPD000023	DIODE	3
D 603				
D 636				
D 608		B0JCQD000001	DIODE	1
D 623		DEDRB081L20	DIODE	1
D 610		B0JDAE000004	DIODE	2
D 625				
D 5		B0KB00000044	DIODE	2
D 6				
D 620		B2ABAM000002	DIODE	1
D 10		B3ABB0000164	DIODE	4
D 11				
D 12				
D 13				
D 20		B3ABB0000274	LED	1
D 16		B3ACB0000020	DIODE	2
D 21				
D 15		B3AKB0000008	DIODE	1
D 1		MA2J72900L	DIODE	4
D 2				
D 3				
D 22				
D 4		MA3J741E0L	DIODE	1
D 23		MA2S111-TX	DIODE	3
D 619			51052	
D 621				
D 605		MAZ81200ML	DIODE	1
D 606		MAZ81800ML	DIODE	1
D 607		MA3S132E0L	DIODE	2
D 622		MAGGISZEUL	D.ODE	
		MA 780510MI	DIODE	6
D 612		MAZ80510ML	DIODE	6
D 613				
D 614				
D 615				
D 617				
D 618			1,100	
D 616		MAZ80620ML	DIODE	1
F 1	Ā	K5H2021A0003	FUSE, 2A	2
F 7	<u>A</u>			
F 9		K5H402Z00003	FUSE, 4A	1
F 600	Δ	K5H632300002	FUSE, 6.3A	1
IC 53		C0ABBA000093	IC, OP AMP	2
IC 601				
IC 608		C0ABZA000047	IC, AMP	1
IC 15		C0CBCAC00183	IC, REGULATOR	1

IC 19	C0CBCBC00137	IC, REGULATOR	1
IC 31	C0CBCBC00181	IC	1
IC 16	C0CBCBG00008	IC, REGULATOR	1
IC 600	C0DBALH00003	IC	4
IC 602			
IC 609			
IC 611			
IC 605	C0DBAYY00155	IC, DC/DC	1
IC 607	C0DBDJH00009	IC, LINER	1
IC 606	C0DBEFH00003	IC, REGULATOR	1
IC 28	C0DBZYY00016	IC IO	1
IC 4	C0DBZYY00017	IC	1
IC 58	C0DBZYY00019	IC, POWER MANAGEMENT SWITCH	1
IC 21	C0DBZYY00026	IC, USB POWER SW	3
IC 22			
IC 71			
IC 610	C0EBE0000333	IC	1
IC 26	C0EBE0000460	IC	3
IC 37			
IC 38			
IC 43	C0JBAA000344	IC, GATE LOGIC	6
IC 44			
IC 54			
IC 55			
IC 61			
IC 614			
IC 46	C0JBAA000346	IC, LOGIC	4
IC 47			
IC 48			
IC 49			
IC 52	C0JBAB000616	IC, LOGIC	3
IC 603			
IC 604			
IC 42	C0JBAB000619	IC, GATE LOGIC	1
IC 45	C0JBAE000302	IC, LOGIC	2
IC 51			
IC 27	C0JBAR000515	IC, Q-SWITCH	2
IC 29	00027.11.10000.10	10, 4 0	-
IC 25	C0JBAZ002422	IC, FET SWITCH	2
	C03BAZ002422	IC, I LI SWITCH	
IC 64	00 ID 4 7000 400	IO FET OMITOU	
IC 70	C0JBAZ002422	IC, FET SWITCH	1
IC 13	C0JBZZ000388	IC, CLOCK GENERATOR	1
IC 69	C1BB00001025	IC, AUDIO AMP	1
IC 33	C1CB00002268	IC, SECURITY CHIP	1
IC 50	C1CB00002295	IC	1
IC 2	C1CB00002432	IC, CHIP SET	1
IC 30	C1CB00002449	IC, AUDIO CODEC	1
IC 20	C1CB00002540	IC, TEMPERATURE CENSOR IC	1
IC 17	C1DB00001182	IC, LAN CONTROLLER	1
IC 24	C1DB00001373	IC, USB-ATA CHIP	1
IC 3	C1DB00001541	IC, CHIPSET	1
IC 36	C2CBJA000003	IC, MICON	1
IC 1	C2GBC0000312	IC, CPU	1
IC 5	C3ABSG000029	IC, DDR2 SDRAM	8
IC 6	l l		

1 1	1	1	1
IC 8			
IC 9			
IC 10			
IC 11			
IC 12			
IC 18	C3EBCG000100	IC, EEPROM	1
IC 23	C3EBEC000061	IC, EEPROM	1
IC 34	C3FBLY000024	IC, SPI FLASH MEMORY	1
JK 1	K2HC1YYB0027	JACK	2
JK 2			
L 608	G1A160H00001	INDUCTOR	1
L 602	DDAZS100MT3T	INDUCTOR	1
L 1	G1C1R0MA0076	INDUCTOR	2
L 3			
L 20	G1C1R0Z00002	INDUCTOR	1
L 605	G1C220MA0077	INDUCTOR	1
L 604	G1C2R8MA0022	INDUCTOR	1
L 601	G1C4R7MA0022	INDUCTOR	3
L 606			
L 607			
L 2	G1C91NM00001	INDUCTOR	1
L 603	G1CR88ZA0140	INDUCTOR, COIL	1
L 17	J0JBC0000072	INDUCTOR, FILTER	3
L 18			
L 19			
L 25	DDB5Z024E-L	INDUCTOR	1
L 38	DDB5Z021C-Y	INDUCTOR	6
L 39			
L 40			
L 41			
L 42			
L 43			
L 34	DDB5Z024C-L	IDUCTOR, FERRITE PARTS	4
L 35			
L 36			
L 37			
L 13	J0JCC0000186	INDUCTOR	9
L 14			
L 27			
L 28			
L 29			
L 30			
L 31			
L 32			
L 33			
L 5	J0JHC0000074	INDUCTOR	3
L 7			
L 26			
L 4	J0JJC0000021	INDUCTOR	1
L 600	J0JKC0000007	INDUCTOR	1
L 57	J0MAB0000116	INDUCTOR	1
L 21	J0ZZB0000080	IDUCTOR, COMMON MODE FILTER	2
L 22		·	
PA 1	D4FB1R100009	SWITCH	3
PA 2			
PA 3			

Q 614	B1CFGD000003	TRANSISTOR	2
Q 643			
Q 6	B1CFGD000023	TRANSISTOR	8
Q 7	510. 0500020		
Q 27			
Q 27 Q 647			
Q 654			
Q 662			
Q 663			
Q 666			
Q 602	B1CFMC000008	TRANSISTOR	1
Q 649	B1CFRD000013	FET	1
Q 612	B1CFRD000014	FET	2
Q 613			
Q 622	B1CHRC000009	TRANSISTOR	2
Q 627			
Q 607	B1CHRD000001	TRANSISTOR	2
Q 610			
Q 637	B1DBGD00006	TRANSISTOR	5
Q 641			
Q 642			
Q 650			
Q 656			
Q 638	B1DFGD000032	TRANSISTOR	1
Q 11	B1DHDC000028	TRANSISTOR	5
	B1DHDC000028	TRANSISTOR	3
Q 40			
Q 626			
Q 630			
Q 633			
Q 608	B1DHFD000015	TRANSISTOR	2
Q 655			
Q 2	B1GBCFJN0037	TRANSISTOR	14
Q 3			
Q 4			
Q 43			
Q 50			
Q 604			
Q 606			
Q 619			
Q 645			
Q 646			
Q 651			
Q 652			
Q 653			
Q 657			
Q 53	B1GBCFNL0017	TRANSISTOR	1
Q 29	B1GBCFNN0042	TRANSISTOR	7
Q 54	2.330.11100.2		'
Q 601			
Q 603			
Q 605			
Q 611			
Q 624			
Q 1	B1GDCFNN0031	TRANSISTOR	4
Q 41			
Q 51	1		

Q 52			
Q 48	B1GFCFEN0003	TRANSISTOR	1
Q 28	B1MBDCA00004	TRANSISTOR	3
Q 35			
Q 37			
Q 615	B1MBEDA00017	TRANSISTOR	2
Q 644			
Q 648	B1MBEDA00018	TRANSISTOR	1
Q 10	XP0421300L	TRANSISTOR	1.
Q 36			
Q 38			
Q 616			
Q 621			
Q 628			
Q 631			
Q 632			
Q 634			
Q 635			
Q 636			
Q 46	XP0421400L	TRANSISTOR	3
Q 47			
Q 600			
R 630	D1BDR018A099	RESISTOR, 1/3W, 0.018Ω	2
R 631			
R 629	D1BDR0220001	RESISTOR, 1/8W, 0.022Ω	10
R 701			
R 702			
R 724			
R 741			
R 742			
R 777			
R 651			
R 652			
R 723	D.12222	DECIOTOR 4/0/W 0.0470	
R 721	D1BDR0470002	RESISTOR, 1/8W, 0.047Ω	1
R 755	D1BDR0680001	RESISTOR, 1/8W, 0.068Ω	2
R 756			
R 628	D1BDR1000002	RESISTOR, 1/8W, 0.1Ω	1
R 626	RL1220SR15F	RESISTOR, 1/8W, 0.15Ω	2
R 627			
R 604	D1BDR4700001	RESISTOR, 1/8W, 0.47Ω	1
R 78	D1H81034A024	RESISTOR ARRAY	7
R 170			
R 196			
R 197			
R 220			
R 268			
R 457			
R 216	D1H84724A024	RESISTOR ARRAY	1
R 384	D1H84734A024	RESISTOR ARRAY	1
R 219	DEARA8AJ103M	RESISTOR ARRAY	7
R 265			
R 266			
R 267			
R 455			

R 513	1		
R 157	D1HA56080001	RESISTOR ARRAY	7
R 158			
R 159			
R 160			
R 161			
R 162			
R 163			
R 99	D1HG1008A001	RESISTOR ARRAY	8
R 100	211101000/1001		
R 101			
R 102			
R 127			
R 128			
R 129			
R 130			
R 602	D1ZZ00000046	RESISTOR, 1W, 5mΩ	1
R 700	D1ZZ00000093	RESISTOR, 1W, 1mΩ	1
R 647	ERA3YEB123V	RESISTOR, 1/16W, 12KΩ	1
R 643	ERA3YEB203V	RESISTOR, 1/16W, 20KΩ	2
R 731			
R 732	ERA3YEB243V	RESISTOR, 1/16W, 24KΩ	2
R 792			
R 646	ERA3YEB333V	RESISTOR, 1/16W, 33KΩ	3
R 753			
R 793			
R 730	ERA3YEB621V	RESISTOR, 1/16W, 620Ω	1
R 641	ERA3YEB622V	RESISTOR, 1/16W, 6.2KΩ	2
R 648			-
R 642	ERA3YKB104V	RESISTOR, 1/16W, 100KΩ	3
R 751	210.011.0104		"
R 752			
R 791	ERA3YKB513V	RESISTOR, 1/16W, 51KΩ	1
R 615	ERJ1TYJ331U	RESISTOR, 1/16W, 51KΩ	2
R 617	LIGHTIOSTO	1.20101011, 177, 00022	-
R 131	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	71
R 132	LIGZGEOROOX	11.0001011, 1/1000, 012	''
R 133			
R 134			
R 135			
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R 703				
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R 763				
R 768				
R 773				
R 774				
R 785				
R 787				
R 103		ERJ2GEJ100X	RESISTOR, 1/16W, 10Ω	37
R 104				
R 105				
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R 109					
R 110					
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R 341	i				
R 636	i				
R 637	i				
R 649	i				
R 650					
R 705					
R 706					
R 716					
R 717					
R 725					
R 726					
R 737					
R 738					
R 13		ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	25	
R 14					
R 65					
R 203					
R 237					
R 332					
R 350					
R 362					
R 391	i				
R 478	i				
R 486					
R 502	'				1
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R 508 R 518 R 608 R 609 R 667 R 668 R 673 R 676 R 677					

R 1	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	16
R 57			
R 61			
R 62			
R 187			
R 218			
R 235			
R 272			
R 273			
R 392			
R 393			
R 462			
R 479			
R 480			
R 492			
R 656	ED 100E 1400V	DECICTOR AMONG ACINO	50
R 93	ERJ2GEJ103X	RESISTOR, 1/16W, 10K Ω	56
R 173			
R 234			
R 242			
R 243			
R 264			
R 277			
R 282			
R 283			
R 284			
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R 298			
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R 713				
R 728				
R 733				
R 734				
R 743				
R 817				
R 165		ERJ2GEJ104X	RESISTOR, 1/16W, 100KΩ	32
R 171		LN02GL0104X	1/10W, 1/10W2	32
R 215				
R 248				
R 249				
R 250				
R 308				
R 311				
R 331				
R 334				
R 337				
R 342				
R 343				
R 352				
R 383				
R 454				
R 459				
R 460				
R 461				
R 475				
R 476				
R 503				
R 506				
R 611				
R 621				
R 623				
R 624				
R 625				
R 662				
R 664				
R 666				
R 672				
R 260		ERJ2GEJ105X	RESISTOR, 1/16W, 1MΩ	7
R 361				
R 397				
R 398				
R 622				
R 661				
R 669				
R 259		ERJ2GEJ106X	RESISTOR, 1/16W, 10MΩ	1
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R 638	ERJ2GEJ153X	RESISTOR, 1/16W, 15KΩ	4
R 707			
R 727			
R 816			
R 748	ERJ2GEJ154X	RESISTOR, 1/16W, 150KΩ	1
R 95	ERJ2GEJ201X	RESISTOR, 1/16W, 200Ω	4
R 96			
R 97			
R 98			
R 258	ERJ2GEJ203X	RESISTOR, 1/16W, 20KΩ	1
R 522	ERJ2GEJ221X	RESISTOR, 1/16W, 220Ω	2
R 740			
R 66	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KΩ	7
R 319			
R 320			
R 325			
R 326			
R 394			
R 395			
R 680	ERJ2GEJ223X	RESISTOR, 1/16W, 22KΩ	1
R 665	ERJ2GEJ225X	RESISTOR, 1/16W, 2.2MΩ	1
R 507	ERJ2GEJ273X	RESISTOR, 1/16W, 27KΩ	1
R 179	ERJ2GEJ330X	RESISTOR, 1/16W, 33Ω	20
R 181			
R 183			
R 184			
R 185			
R 186			
R 191			
R 217			
R 271			
R 368			
R 404			
R 419			
R 424			
R 493			
R 494			
R 495			
R 496			
R 497			
R 498			
R 499			
R 525	ERJ2GEJ331X	RESISTOR, 1/16W, 330Ω	1
R 645	ERJ2GEJ333X	RESISTOR, 1/16W, 33KΩ	1
R 255	ERJ2GEJ334X	RESISTOR, 1/16W, 330K Ω	4
R 280			
R 355			
R 653			
R 79	ERJ2GEJ390X	RESISTOR, 1/16W, 39Ω	2
R 80			
R 221	ERJ2GEJ470X	RESISTOR, 1/16W, 47Ω	5
R 222			
R 295			
R 443			
R 473			
11 4/3			

R 174 R 302 R 730	R 757			
R 302 R 754 R 193		ERJ2GEJ472X	RESISTOR, 1/16W, 4.7KΩ	3
R 754 F. 193 F. 195 F. 196 F. 196 F. 197 F.				
R 195 R 270 R 274 R 275 R 274 R 275 R 292 R 347 R 370 R 371 R 370 R 371 R 378 R 388 R 380 R 400 R 505 R 515 R 515 R 620 R 634 R 634 R 634 R 772 R 789				
R 270 R 274 R 274 R 275 R 292 R 275 R 292 R 347 R 370 R 371 R 370 R 371 R 370 R 371 R 378 R 388 R 388 R 389 R 400 R 505 R 515 R 515 R 517 R 620 R 634 R 684 R 718 R 720 R 739 R 745 R 746 R 683 R 684 R 684 R 684 R 684 R 684 R 748	R 193	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	19
R 275 R 275 R 275 R 275 R 370 R 371 R 378 R 370 R 371 R 378 R 398 R 398 R 390 R 400 R 505 R 515 R 520 R 634 R 684 R 684 R 685 R 780	R 195			
R 275 R 292 R 347 R 347 R 347 R 370 R 371 R 371 R 378 R 388 R 388 R 388 R 380 R 400 R 505 R 515 R 517 R 620 R 634 R 684 R 684 R 684 R 684 R 718 R 720 R 739 R 745 R 772 R 72 R 72 R 72 R 72 R 739 R 745 R 772 R 745 R 777 R 78 R 750 R 747 R 811 R 311 R 270				
R 292 R 347 R 370 R 371 R 376 R 378 R 388 R 380 R 400 R 505 R 515 R 515 R 517 R 620 R 634 R 684 R 788 R 789 R 789 R 789 R 789 R 785 R 772 R 2 R 2 R 2 R 2 R 2 R 415 R 9 R 9 R 25 R 6 R 9 R 27 R 28 R 415 R 9 R 27 R 28 R 415 R 610 R 411 R 411 R 616 R 747 R 354 R 610 R 614 R 616 R 747 R 616 R 747 R 747 R 747 R 747 R 747 R 748 R 749 R 749 R 749 R 740 R 749 R 740 R 740 R 741 R 611 R 747 R 747 R 747 R 747 R 747 R 747 R 747 R 747 R 748 R 663 R 663 R 667 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 749 R 740 R 746 R 746 R 746 R 746 R 746 R 746 R 747 R 746 R 746 R 746 R 747 R 748 R R R R R R R R R R R R R R R R R R R	R 274			
R 347 R 370 R 371 R 378 R 388 R 388 R 388 R 390 R 400 R 505 R 515 R 517 R 520 R 620 R 634 R 664 R 718 R 720 R 739 R 720 R 739 R 745 R 747 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 34 R 66 R 9 R 9 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 34 R 66 R 9 R 9 R 10 R 61 R 74 R 74 R 74 R 74 R 74 R 74 R 74 R 74	R 275			
R 370 R 371 R 378 R 388 R 380 R 390 R 400 R 505 R 515 R 517 R 620 R 634 R 634 R 635 R 655 R 718 R 718 R 720 R 739 R 745 R 772 R 72 R 72 R 72 R 73 R 745 R 772 R 66 R 6 R 6 R 6 R 6 R 747 R 78 R 78 R 78 R 78 R 78 R 78 R 78 R 7	R 292			
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			RESISTOR, 1/16W, 5.6KΩ	1
	R 744	ERJ2RKD114X	RESISTOR, 1/16W, 110KΩ	1

R 605	ERJ2RKD244X	RESISTOR, 1/16W, 240KΩ	2
R 613			
R 606 R 612	ERJ2RKD364X	RESISTOR, 1/16W, 360KΩ	2
R 38	ERJ2RKF1000X	RESISTOR, 1/16W, 100Ω	3
R 40 R 42			
R 15	ERJ2RKF1001X	RESISTOR, 1/16W, 1KΩ	2
R 696			
R 63	ERJ2RKF1002X	RESISTOR, 1/16W, 10KΩ	1
R 689	ERJ2RKF1003X	RESISTOR, 1/16W, 100KΩ	1
R 632	ERJ2RKF1102X	RESISTOR, 1/16W, 11KΩ	1
R 633	ERJ2RKF1302X	RESISTOR, 1/16W, 13KΩ	1
R 83	ERJ2RKF1500X	RESISTOR, 1/16W, 150Ω	9
R 84			
R 85			
R 327			
R 328			
R 329			
R 488			
R 489			
R 490			
R 81	ERJ2RKF1501X	RESISTOR, 1/16W, 1.5KΩ	3
R 285			
R 759			
R 711	ERJ2RKF1502X	RESISTOR, 1/16W, 15KΩ	2
R 735		5500505 44004 40040	
R 687	ERJ2RKF1603X	RESISTOR, 1/16W, 160KΩ	1
R 690	ERJ2RKF1800X	RESISTOR, 1/16W, 180Ω	1
R 693	ERJ2RKF1801X	RESISTOR, 1/16W, 1.80KΩ	1
R 41	ERJ2RKF2000X	RESISTOR, 1/16W, 200Ω RESISTOR, 1/16W, 2KΩ	1
R 339	ERJ2RKF2001X ERJ2RKF2002X	RESISTOR, 1/16W, 20KΩ	1
R 37	ERJ2RKF2210X	RESISTOR, 1/16W, 20ΧΩ	1
R 39	ERJ2RKF2210X	RESISTOR, 1/16W, 221Ω	1
R 229	ERJ2RKF22R6X	RESISTOR, 1/16W, 22.6Ω	1
R 715	ERJ2RKF2402X	RESISTOR, 1/16W, 24KΩ	1
R 288	ERJ2RKF2431X	RESISTOR, 1/16W, 2.43KΩ	1
R 30	ERJ2RKF24R9X	RESISTOR, 1/16W, 24.9Ω	5
R 34	Englint Emox	1120101011, 171011, 2 11011	Ĭ
R 35			
R 86			
R 228			
R 82	ERJ2RKF2550X	RESISTOR, 1/16W, 255Ω	1
R 19	ERJ2RKF27R4X	RESISTOR, 1/16W, 27.4Ω	2
R 21		, ,	
R 446	ERJ2RKF3901X	RESISTOR, 1/16W, 3.9KΩ	1
R 305	ERJ2RKF3922X	RESISTOR, 1/16W, 39.2KΩ	1
R 286	ERJ2RKF39R0X	RESISTOR, 1/16W, 39Ω	2
R 287			
R 695	ERJ2RKF4221X	RESISTOR, 1/16W, 4.22KΩ	1
R 694	ERJ2RKF4701X	RESISTOR, 1/16W, 4.7KΩ	2
R 710			
R 758	ERJ2RKF4702X	RESISTOR, 1/16W, 47KΩ	1
R 356	ERJ2RKF49R9X	RESISTOR, 1/16W, 49.9Ω	4
R 357			

R 359	1	1	
R 360			
R 369	ERJ2RKF5101X	RESISTOR, 1/16W, 5.1KΩ	1
R 714	ERJ2RKF5102X	RESISTOR, 1/16W, 51ΚΩ	1
R 18	ERJ2RKF51R0X	RESISTOR, $1/16W$, 51Ω	1
R 20	ERJ2RKF54R9X	RESISTOR, 1/16W, 54.9Ω	4
R 22	Ziozian o most	The state of the s	
R 32			
R 33			
R 771	ERJ2RKF6801X	RESISTOR, 1/16W, 6.80KΩ	1
R 74	ERJ2RKF80R6X	RESISTOR, 1/16W, 80.6Ω	2
R 75	LIGHT GOTOX	1120101011, 1/1000, 00.022	
R 294	ERJ3GEY0R00V	RESISTOR, 1/16W, 0Ω	7
R 382	ENGOGE FORCOV	17 COIOTOIX, 17 TOVV, 022	'
R 385			
R 423			
R 767			
R 775			
R 776	ED 120EV 1400V	DECICTOR AMON AND	4
R 640	ERJ3GEYJ100V	RESISTOR, 1/16W, 10Ω	4
R 709			
R 729			
R 818		DE01070D 440W 4000	<u> </u>
R 766	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	1
R 246	ERJ3GEYJ121V	RESISTOR, 1/16W, 120Ω	1
R 523	ERJ3GEYJ151V	RESISTOR, 1/16W, 150Ω	2
R 524			
R 166	ERJ3GEYJ1R0V	RESISTOR, 1/16W, 1Ω	8
R 167			
R 168			
R 169			
R 245			
R 699			
R 762			
R 769			
R 26	ERJ3GEYJ201V	RESISTOR, 1/16W, 200Ω	1
R 91	ERJ3GEYJ220V	RESISTOR, 1/16W, 22Ω	1
R 376	ERJ3GEYJ330V	RESISTOR, 1/16W, 33Ω	2
R 377			
R 618	ERJ3GEYJ3R3V	RESISTOR, 1/16W, 3.3Ω	1
R 601	ERJ3GEYJ562V	RESISTOR, 1/16W, 5.6KΩ	1
R 790	ERJ3RED754V	RESISTOR, 1/16W, 750KΩ	1
R 330	ERJ6GEY0R00V	RESISTOR, 1/10W, 0Ω	1
R 474	ERJ6GEYJ101V	RESISTOR, 1/10W, 100Ω	2
R 483			
R 681	ERJ6GEYJ122V	RESISTOR, 1/10W, 1.2KΩ	2
R 821			
R 682	ERJ6GEYJ222V	RESISTOR, 1/10W, 2.2KΩ	2
R 683			
R 367	EXBV8V750JV	RESISTOR ARRAY	1
R 465	J0JBC0000107	RESISTOR, 150mA, 0.8Ω	4
R 467			
R 469			
R 470			
SW 5	K0ZZ00000617	sw	1
SW 6	ESD165225	SLIDE SWITCH	1

SW 7	K0D112B00071	SW	
SW 8	EVQPLDA15	SWITCH	2
SW 9			
T 1	G5BYC0000015	TRANCE	•
X 1	H0J143500058	OSCILLATOR, 14.318MHz	•
X 4	H0J250500067	OSCILLATOR, 25MHz	
X 3	H0J300500018	CRYSTAL OSCILLATOR	
X 2	H0J327200115	OSCILLATOR, 32.768KHz	
X 5	H2D800400015	OSCILLATOR, 8MHz	
ZA 1	DRHM0114ZA	SCREW	
ZA 2	DRHM0113ZA	SCREW	
ZA 3	K1YGZZ000060	SPACER	
ZA 4			
USB PCB			
C 901	EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	
C 902	22. 0200101210	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
CN 901	K1KA12BA0014	CONNECTOR	
CN 902	K1FB104B0062	USB CONNECTOR	
CN 903	1(11 510450002		
D 901	B0KB0000044	DIODE	
D 902	20120000044	3.002	
L 901	J0MAB0000116	INDUCTOR	
L 901	JOINIADOUUU I IU		
L 902	J0JHC0000074	INDUCTOR	
L 903 L 904	303AC0000074	INDOCTOR	
L 904 L 905			
L 906			
SW PCB			
C 952	F1G1A104A014	CAPACITOR, 10V, 0.1µF	
C 953			
C 954	F1G1E103A062	CAPACITOR, 25V, 0.01µF	
CN 951	K1MY20BA0002	CONNECTOR	
CN 952	K1KA02BA0181	CONNECTOR	
D 951	B3ABB0000196	DIODE	
D 952	MA2S111-TX	DIODE	
IC 951	C0JBAA000346	IC, LOGIC	
IC 952	C0EBE0000460	IC	
Q 951	B1GBCFJN0037	TRANSISTOR	
Q 952	B1DHFB000003	TRANSISTOR	
R 951	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	
R 954	ERJ2GEJ104X	RESISTOR, 1/16W, 100ΚΩ	
SW 951	K0D113B00081	SW	
SW 952	K0L1BA000115	SW	1
SW 953	10215,000110	[
WWAN PCB			
C 1524	EEFCX0G151R	CAPACITOR, 2V, 150µF	
C 1525			
C 1502	F1G1C104A042	CAPACITOR, 16V, 0.1µF	
C 1503			
C 1504		i	
C 1504 C 1516			
C 1504 C 1516 C 1528			

C 1520	F1G1H221A495	CAPACITOR, 50V, 220pF	1
C 1501	F1J0J106A016	CAPACITOR, 6.3V, 10µF	3
C 1523			
C 1527			
CN 1501	K1KA12BA0014	CONNECTOR	1
CN 1502	K1MY52BA0190	CONNECTOR	1
CN 1503	K1NA08E00007	CONNECTOR	1
D 1520	DEDRB081L20	DIODE	1
IC 1520	C0DBAYY00204	IC, DC/DC CONVERTER	1
L 1520	G1C2R7MA0273	INDUCTOR, COIL	1
Q 1520	B1CFGD000023	TRANSISTOR	1
Q 1522	B1DHFD000015	TRANSISTOR	1
Q 1521	B1GBCFNN0042	TRANSISTOR	1
R 1522	D1BDR0330001	RESISTOR, 1/8W, 0.033Ω	1
R 1527	D1BDR0470002	RESISTOR, 1/8W, 0.047Ω	1
R 1525	ERA3YEB303V	RESISTOR, 1/16W, 30KΩ	1
R 1503	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	2
R 1505			
R 1502	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	2
R 1504			
R 1521	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	2
R 1523			
R 1526	ERJ2RKF1001X	RESISTOR, 1/16W, 1KΩ	1
R 1524	ERJ2RKF1002X	RESISTOR, 1/16W, 10KΩ	1
SW 1501	K0D211A00015	DIP SWITCH	1
ZA 1501	K1YGZZ000060	SPACER	2
ZA 1502			