Order No. CPD0611208C1

Service Manual

Notebook Computer

CF-Y5



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

Model No. CF-Y5LWVYZ 1 2

1: Operation System

B: Microsoft® Windows® XP Professional

2: Area

M: Refer to above area table

A WARNING

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



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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 O or the BSI mark O 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 () 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-conduciveparts of the electrical installation are earthed.
 - An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)

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

This equipment is produced to BS800/1983.

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:

- 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 nonserviceable 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:

- 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.

SAVE THESE INSTRUCTIONS

-LITHIUM BATTERY

· CAUTION

Danger of explosion if battery is incorrectly replaced.

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

Discard used batteries according to the manufacturer's instructions.

-LITHIUMBATTERIES 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 MÊME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES PILES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

For U.S.A. / CANADA



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

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

Lithium Battery

Lithium Battery!

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

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

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}).(C)
 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-Y5LWVYZBM		
CPU/ Secondary cache memory		Intel [®] Core [™] Duo Processor Low Voltage L 2400 (1.66 GHz, 2 MB ^{*1} L2 cache, 667 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 Drive		60 GB ^{*3}		
CD/DVD Drive		USB 2.0 connection interface		
		DVD MULTI Drive built-in, Buffer underrun error prevention function: Supported		
Continuous Data Trans fer Speed ^{*4*5}	³⁻ 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 20X (Max.) ●+R: 4X (Max.) ●+R DL: 4X (Max.) ●+RW: 4X (Max.)		
	Writing ^{*9}	●DVD-RAM ^{*7} : 2X (4.7GB ^{*3}) ●DVD-R: 1X/2X/4X ●DVD-RW: 1X/2X ●+R: 2.4X/4X ●+RW: 2.4X ●CD-R: 4X/8X/8-16X/8-24X ●CD-RW: 4X ●High-Speed CD-RW: 4X/8X/ 10X ●Ultra-Speed CD-RW: 8X/10X		
Supported Disks/For- mat ¹⁵	Reading	●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	●DVD-RAM ^{*7} (1.4GB, 2.8GB, 4.7GB, 9.4GB) ^{*3} ●DVD-R (1.4GB, 4.7GB for General) ^{*3} ●DVD-RW (Ver.1.1/1.2 4.7GB, 9.4GB) ^{*3} ●+R (4.7GB ^{*3}) ●+RW (4.7GB ^{*3}) ●CD-R ●CD-RW		
Display Method		14.1 SXGA+ type (TFT) (1400 × 1050 dots)		
Internal LCD		65,536/16,777,216 colors (1400 × 1050 dots)*10		
External Display*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})		
Simultaneous Display on LCD + Exter- nal Display ^{*11}		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots/1400 × 1050 dots) ^{*10}		
Wireless LAN		Intel® PRO/Wireless 3945 ABG Network Connection (next page)		
Bluetooth™		(next page)		
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, Stereo Speakers (built in)		
Security Chip		TPM (TCG V1.2 compliant)*14		
Card Slots PC Card	l Slot	× 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA		
SD Men	ory Card Slot*15	× 1, Data transfer rate = 8 MB per second		
RAM Module Slot		× 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: Dedi cated 50-pin male		
Keyboard/Pointing Device		87 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, 3.75 A		
Battery Pack		Li-ion 10.65 V, 5.7 Ah		
Operating Time ^{*19}		Approx. 5 hours - 8 hours ^{*20} (Approx. 6 hours ^{*21}) (Disable Economy Mode (ECO))		
Charging Time ^{*22}		Approx. 5 hours (Power off)/Approx. 6.5 hours (Power on)		

Model No.			CF-Y5LWVYZBM		
Power Consumption ^{*23}			Approx. 35 W ^{*24} / Approx. 60 W (maximum when recharging in the ON state)		
Physical Dimensions (W × H × D) Weight ^{*25}		H × D)	309.6 mm × 28 mm (at the front)/44.5 mm (at the rear) × 245.5 mm (excluding protru- sion) {12.2 " × 1.1 " / 1.8 " × 10.0 "}		
			Approx. 1530 g {3.4 lb.}		
Environment	Operation	Temperature	5°C to 35°C {41°F to 95°F}		
	1.00	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="" model="" with<br="">wireless LAN> / 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 blue-<br="" for="" lan="" model="" wireless="" with="">tooth> / 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

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}	1
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	

■ Bluetooth[™]

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

- ^{*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 writing to DVD-R DL/+R DL (dual layer disks) or 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.
 - When writing to DVD-RAM, use only disks up to 3x. This application cannot be used with 5x DVD-RAM media (2-5x disks, etc.).
- ^{*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.

Appendix

8

- *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.
- ^{*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 SDHC Memory Cards.
 - Do not insert these kinds of 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-2-1

- *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, DVD-R, +R and DVD-RAM.
- *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 : Speakers
- **B** : Function Key
- C :Keyboard
- D :LED Indicator
 - A : Caps lock
 - 1 : Numeric key (NumLk)
 - : Scroll lock (ScrLk)
 - a : Hard disk drive status
 - ECO: Economy Mode (ECO) status
 - 1 : Battery status
- E : Power Switch

Power Indicator

- Off: Power off/Hibernation
- · Green: Power on
- Blinking green: Standby

F: Wireless Switch

- <Only for model with wireless LAN/Bluetooth> "Wireless LAN"
- G :Latch

When closing the display, press down firmly from above until the latch is firmly closed (locked).



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

H:CD/DVD Drive

- I: 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 accessed.
 - Blinking green: Drive power is on, and the drive is being accessed.
- J:LCD

K :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.

- L: Modem Port
 - Be sure to use the included modern telephone cable. and insert the ferrite core side of modern telephone cable into the modem port on the computer.
 - Do not move/remove the ferrite core of modem telephone cable.



M :USB Ports

N : Security Lock

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



- A :DC-IN Jack
- **B**:Ventilation Hole
- C :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.

- D :Mini Port Replicator Connector Connect the Mini Port Replicator (optional).
- E : 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. F: Headphone Jack

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

- G :SD Memory Card Slot
- H :Bluetooth Antenna <Only for model with Bluetooth>
- I: Wireless LAN Antenna
- J: Touch Pad
- K :PC Card Slot
- L : SD Memory Card Indicat Blinking: During access
- M :Battery Latches
- N :Battery Pack
- **O** :Emergency Hole
- P:RAM Module Slot

3 Block Diagram



4 Diagnosis Procedure

4.1. Basic Procedures

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

. Flow Chart



4.2. Troubleshooting

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

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



5 Power-On Self Test (Boot Check)

Outline of POST

The set has a boot check function called POST (Power-On Self Test) in it.

The condition of the main body is diagnosed by checking beep sound or error code.

StartTest begins automatically when power switch is set to ON.

Normal finishAfter memory checking, a beep sound is issued once and the set is placed into automatic stop. Note: If no error occurs, nothing is displayed. (No display of OK, etc.)

Error Diagnosis by Checking Beep Signal Sound

The beep sound is as follows:



(Length of bar shows length of sound.)

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

Table of errors classified by beep sounds

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

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

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

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

0200 Failure Fixed Disk

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

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset : nnnn

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

0231 Shadow RAM Failed at offset : nnnn

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

0232 Extended RAM Failed at offset : nnnn

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

0250 System battery is dead - Replace and run SETUP

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

*0251 System CMOS checksum bad - Default configuration used

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

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

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

*0280 Previous boot incomplete - Default configuration used

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

0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

02D0 System cache error - Cache disabled

Contact Panasonic Technical Support.

02F0: CPU ID:

CPU socket number for Multi-Processor error.

02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

02F5: DMA Test Failed

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

02F6: Software NMI Failed

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

02F7: Fail - Safe Timer NMI Failed

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

device address Conflict

Address conflict for specified device.

Allocation Error for: device

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

Failing Bits : nnnn

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

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

Operating System not found

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

Parity Check 1 nnnn

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

Parity Check 2 nnnn

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

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

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

Troubleshooting

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.
- "F9" is pushed, "Yes" is selected on the screen of "Is the default value loaded?", and "Enter" is pushed.
- 5. " F10 " is pushed.
- 6. "Yes" is selected on the screen of the setup confirmation, and "Enter" is pushed.
- 7. The computer starts automatically.

Attention

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

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

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

1-2. When you execute an automatic test

1. "Ctrl" + "F7" is pushed while the "Panasonic" start screen is displayed after the computer is started.

2. The test of all devices begins automatically by "PC-Diagnostic utility"'s starting.

Attention

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

1-3. When you execute the enhancing test

- 1. Please let me discontinue diagnosing clicking to end an automatic test.
- 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 🛛 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".
- 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.

Test item	Stanard	Enhancing	Content of standard test	Content of enhancing test	Place with possibili- ty of breakdown
CPU / SYSTEM	0	1	CPU is shifted to protected mode, and "Violation of the paging", "Operation of the violation of a privileged instruc- tion", and DMA, INT, TIMER, and the RTC operation are confirmed.		CPU / Main board
RAM	0	-	All memory space is tested in a spe- cial 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 modern controller.		MODEM/ Main- board
Wireless LAN	0	<u> </u>	It is confirmed not to find abnormality in the Wireless LAN modem controller.	-	Wireless LAN board / Connector / Mainboard
Sound *5	0	- 1			
USB	0	°,	It is confirmed not to find abnormality in the USB controller.	It is confirmed not to find ab- normality in the wiring be- tween 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	4	It is confirmed not to find abnormality in the SD controller.	÷	Mainboard
Keyboard	0	0 ^{*3}	It is confirmed not to find abnormality in keyboard controller's keyboard inter- face.	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 con- firmed.	The operation is actually dis- played on the screen by oper- ating 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

7.1. Test Item and Division of trouble

Test Item	Standard	Enhanced	Content of Standard Test	Content of Extend Test	The place with possibility of breakdown
Touch Screen	0	0	It is confirmed not to find abnormality in the USB connection of Touch Screen. This test cannot find abnormality of Touch Screen.	Perform Touch Screen functionality practically. Operator has to judge PASS/FAIL with test result.	Main board/ Touch Screen
Bluetooth	0		It is confirmed not to find abnormality in the connection of Main board and Bluetooth module.		Bluetooth cable
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	- J	It is confirmed not to find abnormality in access to VRAM with VESA. The PC which uses main of Main board and GPS main memory failure.	4	Main board (Chipset, Graphic Controller)/ Memory
GPS	0	-	It is confirmed not to find abnormality in the connection memory as VRAM may fail with	1	GPS cable
IEEE1394	0	-	It is confirmed not to find abnormality in the IEEE1394 controller.	-	Main board (IEEE 1394 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.	1	Main board (Smart Card Controller)
Serial Port	0	0 *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	O *8	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



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.
- Remove the screw (A) and then remove the DIMM cover.

(Remove if the DIMM memory is equipped with) Screw (A) : XSB2+4FNL (N14)



9.2.2. Removing the HDD

Preparation : perform the section 9.2.1. first.

- 1. Remove the 2 screws (B) and 1 screw (C). Screw (B) : DXQT2+D4FNL (N7) Screw (C) : DXQT2+E12FNL (N9)
- Lift up the HDD unit and remove FFC connector and then remove the HDD unit.
- 3. 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 FFC connector.

9.2.3. Removing the Keyboard

Preparation : perform the section 9.2.1. first.

- 1. Remove the 7 screws (D). Screw (D) : DXQT2+E12FNL (N9)
- 2. Operate the LCD knob and open the LCD Unit to an angle of 90 degrees or more.

The minus clock driver removes hook (B-1) in the intuition combination part so as not to damage from the W-LAN connector side space to the exterior, and then rotates to the keyboard side, and KB side cover is detached.

3. Remove the keyboard hook plates, and then remove the hook of back side of keyboard with screwdriver.



4. Operate the LCD knob and open the LCD unit to an angle of 90 degrees or more.

The minus clock driver removes hook (B-1) in the hook position so as not to damage from the wireless LAN connector side space to the exterior, and then rotates to the keyboard side, and KB side cover is removed.



Be careful not to wrap the protection cloth etc. around minus clock driver's point, and be careful not to damage the exterior. 5. KB side cover (L) is adjusted to the upper part as well as KB side cover (R), the minus clock driver removes hook (C-1) in the hook position from the space with the bottom case, rotates to the keyboard side, and detaches.



6. The both sides tape pasted to the keyboard bottom with the spatula is inserted in order of the arrow and then peel off. It is start-up from the LCD side and turns inside out on the top case.

The KBD FPC WP sheet is peeld off, FFC (keyboard) is removed from connector (CN25) and (CN24), and then remove the keyboard.



Note:

KBD-FPC sheet cannot be recycled. Please use new parts.

9.2.4. Removing the Top Case Preparation : perform the section 9.2.1., 9.2.3. first.

1. Remove the 2 screws (E) and 2 foot rubber backs. Screw (E): XTB26+10GFN (N12)

2. Remove the 5 screws (F). Screw (F) : DXHM0057ZA (N5)

- 3. Remove the 2 screws (G). Screw (G): DXHM0049ZA (N3)
- 4. Remove the 1 screw (H) and 1 screw (I). Screw (H): DXQT2+D4FNL (N7) Screw (I): DXQT2+E10FNL (N8)



- 5. Operate the LCD knob and open the LCD Unit to an angle of 90 degrees or more.
- The hook 2 places of the disk side cover are removed, and detaches forward while rotating in the direction of the upper surface.
- The disk cover lock is mechanically released, and the disk cover is opened.



8. The disk cover shaft is removed and pulling out disk cover is removed from the disk cover.



 Remove the 8 screws (J), 3 screws (K), 3 screws (L), 4 screws (M) and 1 screw (N). Screw (J): DXQT2+E6FNL (N10) Screw (K): DRQT2+E8FKL (N2) Screw (L): DXQT2+E10FNL (N8) Screw (M): DXQT2+F3FNL (N16) Screw (N): DXHM0056ZA (N4)



10, CN26 (FAN) and CN15 (SP) are removed. A top case is lifted and FFC (PAD), FFC (DRIVE) and CN27 (solenoid) are removed and then the top case is removed.



9.2.5. Removing the SUB DVD

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Peel off the tape.
- Remove the 2 screw (O) and then remove the SUB DVD.

Screw(O): DXHM0056ZA(N4)

Note:

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



9.2.6. Removing the Touch Pad / LCD Knob

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. The pad top ring fixed to the pad cover by the both sides tape is removed, and remove the screw (P). Screw (P): DXHM0057ZA (N5)

Pad Ring Top Screw (P) Pad Cover Top Case

2. Peel off the pad sheet.

The LCD knob is lifted from a top case, and removing LCD knob is removed from the knob side in the LCD latch spring.



Note:

The pad sheet cannot be recycled. Please use new parts.

9.2.7. Removing the Solenoid / Disc Cover Lock

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. Remove the solenoid line hold sheet and cable fixed sheet.

Solenoid line hold sheet : DFHR3D20ZA (K122)

Remove the 1 screw (Q) and the solenoid from the top case.

Screw (Q): DXHM0056ZA (N4)



Note:

The each cable fixed tapes cannot be recycled. Please use new parts.

Remove the disc cover lock spring, and slide the disc cover lock and then remove.



Note:

When expanding or transforming, the disk cover knob spring cannot be recycled.

9.2.8. Removing the Speaker (L), (R)

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

 Peel off the 5 line hold sheet 1, the 4 brims of the DVD PWB sheet, and remove the speaker (L). Line hold sheet 1 : DFHR3D21YA (K123) DVD PWB sheet : DFMX1229ZA (K161)



Note:

These sheet and speaker ring cannot be recycled. Please use new parts.

2. Peel off the 2 line hold sheet 1, line hold sheet 2 the 1 tape, and remove the Speaker (L).

Line hold sheet 1 : DFHR3D21YA (K123)

Line hold sheet 2 : DFHR3D22ZA (K124)



Note:

These sheets and speaker ring cannot be recycled. Please use new parts.

9.2.9. Removing the FAN

Preparation : perform the section 9.2.1., 9.2.3.

and 9.2.4. first.

- Remove the KB heat spreader and the heat spreader.
- 2. Remove the 1 screw (R) Screw (R): DXHM0057ZA (N5)



Note:

KB heat spreader and the heat spreader cannot be recycled. Please use new parts.

Remove the tape and line hold sheet 2 and then remove the FAN.

Line hold sheet 1 : DFHR3D21YA (K123) Line hold sheet 2 : DFHR3D22ZA (K124)



Note:

These sheets and tape cannot be recycled. Please use new parts.

9.2.10. Removing the Drive Unit

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Peel off the tape from the connector.
- DVD FFC is removed from connector (CN501), and the drive unit is lifted from the bottom case, and the gasket is peeled off and then remove the drive unit.



-When you exchange DRIVE-MAIN FFC, mark the bottom case, and match new FFC to marking of the bottom case, bend, and build the bend externals of FFC before peeling off FFC from the bottom case.

-Tape and gusket cannot be recycled. Please use new parts.

9.2.11. Removing the Main Board

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

Remove the 2 screws (S), 2 screws (T) and 1 screw (U).
 Screw (S) : K1YE5000022 (N15)
 Screw (T) : DFHE5035ZB (N1)

Screw (1) DFHESUSSEB (N1)

- Screw (U) : DXQT2+E6FNL (N10)
- Peel off the 6 tapes, main PWB sheet and line hold sheet 3.

Main PWB sheet : DFMX1228ZA (K64) Line hold sheet 3 : DFHR3D59YA (K47)



 Disconnect the LCD connector (CN9) (CN10), DC-IN connector (CN601) and FFC (CN4) (CN6) (CN18) (CN8).



- Turn inside out the main board. Remove the antenna cable (L), (R) from the wireless LAN module, and then remove the main board.
- Remove the connector from CN3 and then remove the coin battery.



9.2.12. Removing the Bluetooth-USB PCB Unit (with BT) / Bluetooth Antenna PCB Unit

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Remove the screw (V). Screw (V) : DXQT2+D25FNL (N6)
- 2. Remove the USB FPC from the tape and CN910, and then remove the bluetooth-USB PCB unit.

Bluetooth Antenna PCB Unit



9.2.13 . Removing the DC-IN Cable

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Remove the 1 screw (W) . Screw (W) : DXQT2+E6FNL (N10)
- 2. DC-IN jack plate, DC MDM cover, DC-IN cable connector (CN601), and FAN sheet are peeled off, and then remove the DC-IN cable.



Note:

FAN sheet cannot be recycled. Please use new parts.

9.2.14. Removing the Antenna Board Unit (L), (R)

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.10. and 9.2.11. first.

1. Peei off the line hold sheet and drive EMI sheet and then remove the antenna board (R).

Line hold sheet : DFHR3D80ZA (K52)

Drive EMI sheet : DFHE1003ZA (K38)



Note:

These sheet cannot be recycled. Please use new parts.

 Line hold sheet 1 and heat spreader bottom are peeled off from main Board's wireless LAN side, and takes the antenna cable (L) out from the ditch and then remove the antenna board (L). Line hold sheet 1 : DFHR3D21ZB (K43) Heat spreader bottom : DFMY3222ZA (K69)



Note:

Line hold sheet 1 and heat spreader bottom cannot be recycled. Please use new parts.

9.2.15. Removing the Wireless LAN Module 9.2.17. Removing the Card Bus Ejector

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

- 1. Remove the 2 screws (X). Screw(X): DXQT2+D25FNL(N6)
- 2. Wireless LAN module is floated in the connector fulcrum and removed.



9.2.16. Removing the MODEM

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

- 1. Remove the 2 screws (Y). Screw (Y) : DXQT2+D25FNL (N6)
- 2. MODEM will be removed from connector (CN17) to the vertical direction.



Preparation : perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

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



- 2. Return it on the revers to the card bus ejector side.
- 3. The minus small driver is inserted in connector (CN13) and the card bus ejector intuition combination parts, 2 places of hooks (E). And then remove the card bus ejector.





Be careful not to transform the card bus ejector when you remove the hook.

9.2.18. Removing the LCD Unit

Preparation : perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Remove the 1 screw (a). Screw (a): DXQT2+E6FNL (N10)
- Remove the DC-IN jack plate, DC MDM cover and FAN sheet.

FAN sheet : DFMY0428ZA (K65)

 Peel off the main PWB sheet and remove the connector (CN9), (CN10) of the main board. Main PWB sheet : DFMX1228ZA (K64)



Note:

These sheet cannot be recycled. Please use new parts.

- 4. Remove the 2 screws (b). Screw (b): DXYN26+J6FNM (N11)
- 5. Peel off the EMI sheet 3 and then remove the LCD unit.



9.2.19. Removing the Hinge Cover (L), (R)

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.18. first.

1. Remove the 2 screws (c) and then remove the hinge Cover (L), (R).

Screw (c): DRHM0076ZA (N17)



Note:

Screw (c) cannot be recycled. Please use new parts.

9.2.20. Removing the LCD Unit and the LCD Rear

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.18. and 9.2.19. first.

1. Remove the 2 screws (d). Screw (d): DRHM0076ZA (N17)





The intuition combination part of LCD rear case (21 places) is separated with LCD front case.



Note:

-When each hook is removed, it becomes easy to detach if the driver who wraps protection cloth etc. is inserted with LCD Front Case between LCD rear covers, and the slide is repeated.

-Do noting that externals are not damaged.

Remove the 1 screw (e) from LCD rear and then remove the LCD hook.



9.2.21. Removing the LCD Cable / Inverter Board

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.18. and 9.2.20. first.

1. Peel of the damper, conductive cloth, inverter tape and the tape.

Inverter tape : DFHR3E07ZA (K18)

- 2. Remove the hinge (L), (R).
- LCD Ccable is removed from LCD unit board (CN101), and connector (CN1) is removed from inverter board.



Note:

Conductive cloth and tapes cannot be recycled. Please use new parts.

Conductive Cloth

- Inverter case is peeled off and Inverter fixed with a both sided tape is taken out.
- 5. Peel off the tape from inverter.
- Remove the connector (CN2) and then remove the inverter.



Note:

Tape and inverter case cannot be recycled. Please use new parts.

Screw (e): DXQT2+D25FNL (N6)

9.3. Reassenbly instructions

9.3.1. Attention when CF-Y5L 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



9.3.2.2. Putting LCD Side Cushion / LCD Tape 1



9.3.2.3. Putting LCD Side Rubber / LCD Side Damper

(LCD handling attention)

-Do not take out the vicinity of the center of the lamp side having when you take out LCD of the packing box.

(Because there is a possibility that the transformation of the lamp reflector etc. occur)

-Take out right and left both ends of the lamp side having when you take out LCD.


9.3.2.4. Putting LCD Magnet

(Attention)

-The LCD Front is installed in the receiving stand, and works.



9.3.2.5. Putting LCD Cushion / Assembly of the Inverter







9.3.2.7. Assembly of the Hinge (L), (R)



9.3.2.8. Putting LCD Rear Cushion / LCD Side Cushion



9.3.2.9. Assembly of the LCD Rear / LCD Front



Exchange for the new article when tightening again.

9.3.3. Assembly knowhow of the Main Board

9.3.3.1. Putting Line Hold Sheet / Antenna Sheet / BT PWB Cushion

(Attention)

-Execute after setting board in the receiving treatment device when working.





affixes "5011N" side on the PWB side.

BT ANT PWB

9.3.3.2. Putting MCH Sheet / Heat Spreader Bottom



9.3.3.3. Assembly of the WLAN Sheet / MCH Thermal Tape



Safety Work Puts according to the silk frame. The inclination is within 0.5mm.

(Attention)

PCMCIA Sheet

-The board is set in the receiving treatment device and works.

-The connector lock work after FPC is inserted uses the treatment device.

Connection

<FIG1>



9.3.3.5. Assembly of the Card Bus Ejector



9.3.3.6. Assembly of the Wireless LAN Module / MODEM



9.3.3.7. Insert the Main Board

(Attention)

-The board is set in the receiving treatment device and works.

-When carrying to the following process, a special palette is used.

(The FPC bend in YB respect is prohibited)



9.3.3.8. Note of Wireless LAN module is inserted

<Notes when Wireless LAN Module is inserted>

Please do Board's insertion and extraction correctly according to the direction and the procedure shown in the figure below

Please go from parallel respect to mounting Board in Board's insertion and extraction within the range of 5^e-10^e
Please insert in the interior completely when you insert Board.



9.3.4. Assembly knowhow of the Top Case

9.3.4.1. Assembly of the Disk Cover



9.3.4.2. Putting Disk Angle Cushion



9.4.3.3. Assembly of the Top Case







9.4.3.4. Assembly of the LCD Knob / Putting Cushion



9.3.4.5. Assembly of the Touch Pad











9.3.4.7. Assembly of the Break Lever



9.3.4.8. Assembly of the FAN



9.3.4.9. Assembly of the Disk Cover Click



9.3.4.10. Assembly of the Disk Cover Lock / SW PCB







9.3.4.12. Assembly of the Speaker



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9.3.4.14. Putting Cushion / Tape / Sheet



9.3.4.15. Assembly of the SW PCB FFC





9.3.5. Assembly knowhow of the Bottom Case 9.3.5.1. Putting Line Hold Sheet



9.3.5.2. Assembly of the DIMM Cover



9.3.5.3. Putting Sheet / Cushion / Tape







9.3.5.4. Putting Foot Rubber



Work with a specified treatment device when you pressurize Foot Rubber and Bottom BATT Sheet

9.3.6. Assembly knowhow of the Body 9.3.6.1. Keyboard preparation







9.3.6.3. Assembly of the HDD Slot Guard



9.3.6.4. Putting Line Hold Sheet 3 / Line Hold Cushion





9.3.6.5. Installation of LCD Unit



9.3.6.6. Assembly of the DC Jack Plate



9.3.6.7. Putting Main PCB Sheet








9.3.6.9. Installation of Power Knob / LAN SW Knob Put the Conductive Cloth with the antenna cable not hung on the convex part of the bottom case (FIG1) Make the bottom side rib slip into the main board under Set the Power SW - ---- A III Set the W-LAN ON/OFF SW Confirm the floatage of the damper three places is not generated (FIG1) Stuck the Conductive Cloth currently prepared for the drive on a bottom case Power SW W-LAN ON/OFF SW Confirm the SW lever has been surely inserted in the ditch of the knob

9.3.6.10. Assembly of the Body



9.3.6.11. Top Case side screw tightening



9.3.6.12. Installation of K/B Heat Spreader



9.3.6.13. Installation of Disk Cover / Disk Side Cover



9.3.6.14. Installation of Keyboard



9.3.6.15. Installation of K/B Side Cover



9.3.6.16. How to detach Keyboard and K/B Side Cover



9.3.6.17. Installation of HDD



9.3.6.18. Bottom Case side screw tightening





<Reference> DFQT0046ZA





10 Exploded View 10.1. Display Section





10.3. Bottom Section



11 Replacement Parts List

Note : Important Safety Notice

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

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

CF-Y5LWVYZBM

Main Block Unit PCB, MAIN RTL E1 DL3U11528ABA PCB, SUB DVD RTL E2 DL3U21528ABA PCB, SUB DVD RTL E3 DL3UP1521AAA HDD FPC UNIT T E5 DL3UP1581BA BLUETOOTH-USB PCB UNIT(WITH BT) RTL E6 DL3UP1581BA BLUETOOTH-ANTENNA PCB UNIT RTL E7 MOGF1J000008 INVERTER T E8 M INSHZC0000019 WIRELESS LAN MODULE T E10 DFJS10227A MODEM CABLE T E11 L0A20A00007 SPEAKER CABLE T E13 NAZZY000019 KBC (US) T E14 N2EAYY00008 TOUCH PAD T E16 DFJS1027A DC-IN CABLE T E17 K'YYZ200068 CONNECTOR T E18 DFJS1027A DC-IN CABLE T E21 L9AAAYYB0004 SOLENOID T E22 DFJK120112BB FFC, PAD T E23	REF. NO and AREA	PART NO.	DESCRIPTION		Q'TY
E1 DL3U11528ABA PCB, MAIN RTL E2 DL3U31528ABA PCB, SUB DVD RTL E3 DL3UP1521AAA HDD FPC UNIT T E5 DL3UP1581BBA BLUETOOTH-HUSB PCB UNIT(WITH BT) RTL E6 DL3UP1585BBA BLUETOOTH-HUSB PCB UNIT(WITH BT) RTL E7 ▲ NGF1J000008 INVERTER T E8 ▲ NSHZC0000014 MODEM CABLE T E9 ▲ NSHAZ20000174 MODEM CABLE T E11 L0AA20A00007 SPEAKER CABLE 2 E13 N2AZZY000019 KIRELESS LAN MODULE T E14 N2EAYY00008 TOUCH PAD T E16 DFJS10227A LAN CABLE T E17 K1YYZ2000060 CONHECTOR T E16 DFJS10227A LAN CABLE T E20 DFJS10227A LAN CABLE T E21 L9AAYY00004 SOLENOID T E22 DFJA120112B FC, NAB T E23 DFJX120112B FC, SW PCB T E24 <th>Main Block Unit</th> <th></th> <th></th> <th></th> <th></th>	Main Block Unit				
E2 DL3UP1521AAA PCB, SUB DVD RTL E3 DL3UP1521AAA HDD FPC UNIT E5 DL3UP1581BBA BLUETCOTH-USB PCB UNIT(WITH BT) RTL E6 DL3UP1585BBA BLUETCOTH-USB PCB UNIT RTL E7 Å NGCF1J000008 INVERTER 1 E8 Å NSHAZ0000019 WIRELESS LAN MODULE E9 Å NSHAZ000007 SPEAKER 2 E11 L0AA20A00007 SPEAKER 2 E12 DFJS10232A SPEAKER CABLE 2 E13 N2AZZY000019 KBD (US) 1 E14 N2AZZY00008 COUNECTOR 1 E16 DFJS10232A DC-IN CABLE 1 E17 K1YYZZ00060 CONNECTOR 1 E18 DFJS10212B LCD CABLE 1 E21 LGPAAYTB004 SOLENOID 1 E22 DFJK1201108B FFC, SW PCB 1 E23 DFJK201004B FFC, SW PCB 1 E24 UDCYSEH62 FAN 1 1 E25 CR-2032/KSB <td>E1</td> <td>DL3U11528ABA</td> <td>PCB, MAIN</td> <td>RTL</td> <td>1</td>	E1	DL3U11528ABA	PCB, MAIN	RTL	1
E3 DL3UP1521AAA HDD FPC UNIT	E2	DL3U31528ABA	PCB, SUB DVD	RTL	1
E5 DL3UP1531BBA BLUETOOTH-USB PCB UNIT(WITH BT) RTL E6 DL3UP1585BBA BLUETOOTH ANTENNA PCB UNIT RTL E7 ▲ NOGF1.000008 INVERTER	E3	DL3UP1521AAA	HDD FPC UNIT	1000	
E6 DL3UP1565BBA BLUETOOTH ANTENNA PCB UNIT RTL E7 ▲ N0GF1J000008 INVERTER	E5	DL3UP1581BBA	BLUETOOTH-USB PCB UNIT(WITH BT)	RTL	1
E7 ▲ NoFIZ0000019 WIRELESS LAN MODULE E8 ▲ NSHAZ0000014 MODEM E10 DFJS1024ZA MODEM CABLE 1 E11 L0AA20A0007 SPEAKER 2 E12 DFJS1023ZA SPEAKER 2 E13 N2AZZY000019 KBD (US) 1 E14 N2EAYY00008 TOUCH PAD 1 E15 ▲ DFJS1025ZA LAN CABLE 1 E16 DFJS1025ZA LAN CABLE 1 1 E17 K1YYZ200060 CONNECTOR 1 1 E19 LSEDDY90038 LCD CABLE 1 1 E20 DFJS1021ZB LCD CABLE 1 1 E21 L9AAYY80004 SOLENOID 1 1 E22 DFJK201108B FFC, PAD 1 1 E23 DFJK20108B FFC, NAP 1 1 1 E24 UD0FSEH62 FAN 1 1 1 1 1 1 1 1 1 1 1 1	E6	DL3UP1585BBA	BLUETOOTH ANTENNA PCB UNIT	RTL	1
E8 ▲ NsHAZ0000014 MODEM MODEM E9 ▲ NsHAZ0000014 MODEM CABLE	E7 🛆	N0GF1J000008	INVERTER		1
E9 ▲ NehAZ0000014 MODEM E10 DFJS1024ZA MODEM CABLE	E8 🛆	N5HZC0000019	WIRELESS LAN MODULE		1
E10 DFJS10242A MODEM CABLE	E9 🛆	N5HAZ0000014	MODEM		1
E11 L0AA20A00007 SPEAKER 1 E12 DFJs1023ZA SPEAKER CABLE 1 E13 N2AZZY000019 KBD (US) 1 E14 N2EAYV00008 TOUCH PAD 1 E15 DFJs102ZYA DC-IN CABLE 1 E16 DFJs102ZA LAN CABLE 1 E17 K1YYZZ00060 CONNECTOR 1 E19 LSEDDYY00038 LCD 1 E20 DFJS102ZA LCD CABLE 1 E21 L9AAAYYB0004 SOLENOID 1 E22 DFJK12017B8 FFC, XP CB 1 E23 DFJK201708B8 FFC, WP CB 1 E24 UDQFSEH62 FAN 1 E25 CR-2032/K5B COIN BATTERY 1 E26 DFJK902ZA FFC, DRIVE 1 E27 M3CAYY00006 HDD 1 E28 DFUP1522YA FPC, USB 1 E29 UJ-8382CD2-Z DVD MULTI DRIVE 1 A1 Δ DFQX5647ZA MANUAL(CF-Y5MK1) 1 <td>E10</td> <td>DFJS1024ZA</td> <td>MODEM CABLE</td> <td></td> <td>1</td>	E10	DFJS1024ZA	MODEM CABLE		1
E12 DFJS10232A SPEAKER CABLE E13 N2AZZY000019 KBD (US) E14 N2EAYYV00008 TOUCH PAD E15 ▲ DFJS1022YA DC-IN CABLE E16 DFJS1022YA DC-IN CABLE	E11	L0AA20A00007	SPEAKER	1	2
E13 N2AZZY000019 KBD (US) E14 N2EAYY00008 TOUCH PAD E16 DFJS1022YA DC-IN CABLE E16 DFJS1025ZA LAN CABLE E17 K1YYZZ000060 CONNECTOR E19 LSEDDYV00038 LCD E20 DFJS1021ZB LCD CABLE E21 L9AAAYYB0004 SOLENOID E22 DFJK12U112BB FFC, SW PCB E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/KSB COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M RCAYY00006 HDD E28 DFUP152YA FPC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 D.13UP1537AAA ANTENNA PCB UNIT L RTL A1 DFOX5647ZA MANUAL(CF-Y5MK1) 1 A2 NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC ADAPTOR 1 A4 K2CG3DR00003 AC CORD 1 A4	E12	DFJS1023ZA	SPEAKER CABLE		1
E14 N2EAYYY00008 TOUCH PAD E15 ▲ DFJS1022YA DC-IN CABLE E16 DFJS1022YA DC-IN CABLE E17 K1YYZZ00060 CONNECTOR E19 LSEDDYY00038 LCD E20 DFJS1021ZB LCD CABLE E21 L9AAAYYB0004 SOLENOID E22 DFJK12U112BB FFC, PAD E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/K5B COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 ▲ N3CAYY00006 HDD E28 DFUP1522YA FFC, USB E29 UJ-833ECD2-Z DVD MULT I DRIVE E30 D.13UP1537AAA ANTENNA PCB UNIT R RTL Accessories	E13	N2AZZY000019	KBD (US)		1
E15 ▲ DFJS1022YA DC-IN CABLE E16 DFJS1025ZA LAN CABLE	E14	N2EAYYY00008	TOUCH PAD		1
E16 DFJS1025ZA LAN CABLE E17 K1YYZZ000060 CONNECTOR	E15 A	DFJS1022YA	DC-IN CABLE		1
E17 K1YYZZ000060 CONNECTOR E19 L5EDDYY00038 LCD E20 DFJS1021ZB LCD CABLE E21 L9AAXYB0004 SOLENOID E22 DFJK12U112BB FFC, PAD E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/K5B COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M SACAYY00006 HDD E28 DFUP1522YA FPC, USB E30 DL3UP1537AAA ANTENNA PCB UNIT R E31 DL3UP1537AAA ANTENNA PCB UNIT L E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL 1 ACcessories A1 Δ DFQX5647ZA MANUAL(CF-Y5MK1) A2 Δ NCR-B/601A LITHIUM ION BATTERY PACK A3 Δ CF-AA1633AM1 AC ADAPTOR A4 Δ K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 P1 DFPE00772ZA ACCESSORIES BOX 1	E16	DFJS1025ZA	LAN CABLE		1
E19 LSEDDYV00038 LCD E20 DFJS1021ZB LCD CABLE E21 L9AAYYB0004 SOLENOID E22 DFJK12U112BB FFC, PAD E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/K5B COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M SCAYVY00006 HDD E28 DFUP1522YA FFC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL 1 E31 DL3UP1538AAA ANTENNA PCB UNIT R RTL 1 A2 M CR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC ADAPTOR 1 A4 M K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPR0842ZA CUSHION T 2 P4 DFPN0842ZA CUSHION B 2 </td <td>E17</td> <td>K1YYZZ000060</td> <td>CONNECTOR</td> <td></td> <td>1</td>	E17	K1YYZZ000060	CONNECTOR		1
E20 DFJS10212B LCD CABLE E21 L9AAAYYB0004 SOLENOID E22 DFJK12U112BB FFC, PAD E23 DFJK20T108BB FFC, PAD E24 UDQFSEH62 FAN E25 CR-2032/K5B COIN BATTERY E26 DFJK09022A FFC, DRIVE E27 M3CAYY00006 HDD E28 DFUP1522YA FPC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 DI.3UP1537AAA ANTENNA PCB UNIT R RTL 1 RTL 1 Accessories	F19	1.5EDDYY00038	LCD	1	1
E21 L9AAAYYB0004 SOLENOID E22 DFJK12U112BB FFC, PAD E23 DFJK20T108B FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/KSB COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M 3CAYYY00006 HDD E28 DFUP1522YA FPC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1537AAA ANTENNA PCB UNIT R RTL Accessories A1 Δ DFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 NCR-8/601A LITHIUM ION BATTERY PACK 1 A3 Δ CF-AA1633AM1 AC ADAPTOR 1 A4 Δ K2CG3DR00003 AC CORD 1 1 A5 DFJS1070ZA MODEM CABLE 1 1 P2 DFPE0842ZA HOLDER 1 1 P3 DFPN0841ZA CUSHION T 2 2	E20	DFJS1021ZB	LCD CABLE		1
E22 DFJK12U112BB FFC, PAD E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/K5B COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M N3CAYYY00006 HDD E28 DFUP1522YA FPC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories A1 ØFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 ØCF-AA1633AM1 AC ADAPTOR 1 A4 ØK 2CG30R00003 AC CORD 1 A4 ØK 2CG30R00003 AC CORD 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER 1 P3 DFPN0841ZA CUSHION T 2 P4 DFPN08442ZA CUSHION B 2 2 </td <td>E21</td> <td>L9AAAYYB0004</td> <td>SOLENOID</td> <td></td> <td>1</td>	E21	L9AAAYYB0004	SOLENOID		1
E23 DFJK20T108BB FFC, SW PCB E24 UDQFSEH62 FAN E25 CR-2032/KSB COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M3CAYY00006 HDD E28 DFUP1522YA FPC, USB E29 UJ-833ECD2-Z DVD MULTI DRIVE E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT R RTL Accessories A1 DFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC ADAPTOR 1 A4 MCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC CORD 1 A4 MCR-B/601A LITHIUM ION BATTERY PACK 1 A5 DFJS1070ZA MODEM CABLE 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER	E22	DFJK12U112BB	FFC, PAD		1
E24 UDQFSEH62 FAN - E25 CR-2032/K5B COIN BATTERY - E26 DFJK9022ZA FFC, DRIVE - E27 AN 3CAYYY00006 HDD - E28 DFUP1522YA FPC, USB - E29 UJ-833ECD2-Z DVD MULTI DRIVE - E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories - - - A1 DFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 A NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC CORD 1 1 A4 CG3DR00003 AC CORD 1 1 A5 DFJS1070ZA MODEM CABLE 1 1 P2 DFPE0842ZA HOLDER 1 2 P3 DFPN0841ZA CUSHION T 2 2 P4 DFPN0842ZA CUSHION B 2 2 P5 DFPK1158RA PACKING CASE	E23	DFJK20T108BB	FFC, SW PCB		1
E25 CR-2032/K5B COIN BATTERY E26 DFJK9022ZA FFC, DRIVE E27 M N3CAYYY00006 HDD E28 DFUP1522YA FPC, USB E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories	E24	UDQFSEH62	FAN		1
E26 DFJK9022ZA FFC, DRIVE 1 E27 ▲ N3CAYYY00006 HDD 1 E28 DFUP1522YA FPC, USB 1 E29 UJ-833ECD2-Z DVD MULTI DRIVE 1 E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories 1 Attenna PCB UNIT L RTL A1 ▲ DFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 ▲ NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 ▲ CF-AA1633AM1 AC ADAPTOR 1 A4 ▲ K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPN0841ZA CUSHION T 1 P3 DFPN0841ZA CUSHION B 2 P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1	E25	CR-2032/K5B	COIN BATTERY		1
E27 ▲ N3CAYYY00006 HDD 1 E28 DFUP1522YA FPC, USB 1 E29 UJ-833ECD2-Z DVD MULTI DRIVE 1 E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL 1 E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL 1 Accessories	E26	DFJK9022ZA	FFC, DRIVE		1
E28 DFUP1522YA FPC, USB 1 E29 UJ-833ECD2-Z DVD MULTI DRIVE 1 E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories	E27 🛆	N3CAYYY00006	HDD		1
E29 UJ-833ECD2-Z DVD MULTI DRIVE 1 E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL Accessories	E28	DFUP1522YA	FPC, USB		1
E30 DL3UP1537AAA ANTENNA PCB UNIT R RTL 1 E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL 1 Accessories	E29	UJ-833ECD2-Z	DVD MULTI DRIVE		1
E31 DL3UP1538AAA ANTENNA PCB UNIT L RTL 1 Accessories Image: Composition of the system	E30	DL3UP1537AAA	ANTENNA PCB UNIT R	RTL	1
Accessories Ait DFQX5647ZA MANUAL(CF-Y5MK1) 1 A2 A NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 A CF-AA1633AM1 AC ADAPTOR 1 A4 A K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 Packing Material 1 1 1 1 P2 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER 1 P3 DFPN0841ZA CUSHION T 2 P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1 1 1 1 K1 DFBH3050ZA HINGE L 1 1 K3 DFHE0843ZA LCD MAGNET 1 1	E31	DL3UP1538AAA	ANTENNA PCB UNIT L	RTL	1
A1 A DFQX5647ZA MANUAL(CF-Y5MK1) A2 A NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC ADAPTOR 1 A4 K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER 1 P3 DFPN0841ZA CUSHION T 2 P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1 1 K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	Accessories				
A2 A NCR-B/601A LITHIUM ION BATTERY PACK 1 A3 CF-AA1633AM1 AC ADAPTOR 1 A4 A K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 Packing Material 1 1 1 P2 DFPE0772ZA ACCESSORIES BOX 1 P3 DFPN0841ZA CUSHION T 2 P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1 1 K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	A1 🛆	DFQX5647ZA	MANUAL(CF-Y5MK1)		1
A3 A CF-AA1633AM1 AC ADAPTOR 1 A4 A K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 Packing Material 1 1 1 P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER 1 P3 DFPN0841ZA CUSHION T 2 P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1 1 K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	A2 🛆	NCR-B/601A	LITHIUM ION BATTERY PACK		1
A4 A K2CG3DR00003 AC CORD 1 A5 DFJS1070ZA MODEM CABLE 1 Packing Material Image: Composition of the state of the	A3 🛆	CF-AA1633AM1	AC ADAPTOR		1
A5 DFJS1070ZA MODEM CABLE 1 Packing Material P1 DFPE0772ZA ACCESSORIES BOX 11 P2 DFPE0842ZA HOLDER 11 P3 DFPN0841ZA CUSHION T 22 P4 DFPN0842ZA CUSHION B 22 P5 DFPK1158RA PACKING CASE 11 Mechanical Parts K1 DFBH3049ZA HINGE L 11 K2 DFBH3050ZA HINGE R 11 K3 DFHE0843ZA LCD MAGNET 11	A4 🛆	K2CG3DR00003	AC CORD		1
Packing MaterialP1DFPE0772ZAACCESSORIES BOX1P2DFPE0842ZAHOLDER1P3DFPN0841ZACUSHION T22P4DFPN0842ZACUSHION B22P5DFPK1158RAPACKING CASE1Mechanical PartsK1DFBH3049ZAHINGE L1K2DFBH3050ZAHINGE R1K3DFHE0843ZALCD MAGNET1	A5	DFJS1070ZA	MODEM CABLE		1
P1 DFPE0772ZA ACCESSORIES BOX 1 P2 DFPE0842ZA HOLDER 1 P3 DFPN0841ZA CUSHION T 22 P4 DFPN0842ZA CUSHION B 22 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 1 1 K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	Packing Material		4		-
P2DFPE0842ZAHOLDER1P3DFPN0841ZACUSHION T2P4DFPN0842ZACUSHION B2P5DFPK1158RAPACKING CASE1Mechanical PartsK1DFBH3049ZAHINGE LK2DFBH3050ZAHINGE R1K3DFHE0843ZALCD MAGNET1	P1	DFPE0772ZA	ACCESSORIES BOX		1
P3 DFPN0841ZA CUSHION T 22 P4 DFPN0842ZA CUSHION B 22 P5 DFPK1158RA PACKING CASE 11 Mechanical Parts K1 DFBH3049ZA HINGE L 11 K2 DFBH3050ZA HINGE R 11 K3 DFHE0843ZA LCD MAGNET 11	P2	DFPE0842ZA	HOLDER		1
P4 DFPN0842ZA CUSHION B 2 P5 DFPK1158RA PACKING CASE 1 Mechanical Parts 1 <th1< th=""> 1<!--</td--><td>P3</td><td>DFPN0841ZA</td><td>CUSHION T</td><td>1</td><td>2</td></th1<>	P3	DFPN0841ZA	CUSHION T	1	2
P5 DFPK1158RA PACKING CASE 1 Mechanical Parts K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	P4	DFPN0842ZA	CUSHION B		2
Mechanical Parts K1 DFBH3049ZA HINGE L 1 K2 DFBH3050ZA HINGE R 1 K3 DFHE0843ZA LCD MAGNET 1	P5	DFPK1158RA	PACKING CASE		1
K1DFBH3049ZAHINGE L1K2DFBH3050ZAHINGE R1K3DFHE0843ZALCD MAGNET1	Mechanical Parts		Ψ.		
K2 DFBH3050ZA HINGE R K3 DFHE0843ZA LCD MAGNET	K1	DFBH3049ZA	HINGE L		1
K3 DFHE0843ZA LCD MAGNET	K2	DFBH3050ZA	HINGE R		1
	K3	DFHE0843ZA	LCD MAGNET		1

KA		CARKET OLOTU	1 4
<u></u> K4	DFHE0994ZA	GASKET CLOTH	
<u>K5</u>	DFHE0998ZA	CABLE GASKET CLOTH	
K6	DFHG1774ZA	LCD SIDE DAMPER	2
K7	DFHG1871ZA	LCD SIDE CUSHION 1	4
K8	DFHG1872ZA	LCD SIDE CUSHION 2	2
K9	DFHG1873ZA	LCD SIDE CUSHION 3	2
K10	DFHG1874YA	LCD CUSHION 1	1
K11	DFHG1875ZA	LCD CUSHION2	2
K12	DFHG1876ZA	LCD REAR CUSHION 1	1
K13	DFHG1877YA	LCD REAR CUSHION 2	2
K14	DFHG1911ZA	LCD CUSHION 3	1
K15	DFHG830ZA	CON SPACER	1
K16	DFHP7175ZA	LCD TAPE C	1
K17	DFHP7239ZA	LCD TAPE 1	3
K18	DFHR3E07ZA	INVERTER TAPE	1
K19	DFKE0835YA-0	HINGE COVER L	1
K20	DFKE0836YA-0	HINGE COVER R	1
K21	DFKF0269YA-0	LCD FRONT	1
K22	DFGX0397ZA-0	LCD BATT RUBBER	1
K23	DFHG1546ZB-0	LCD RUBBER	2
K24	DFKM0510ZA-0	LCD REAR	- 1
K25	DEHR3E08ZA	LCD REAR TAPE 1	1
K26	DFHR3E09ZA	LCD REAR TAPE 2	1
K27	DFHR3E37ZA	LCD REAR TAPE 3	2
K28	DFMD1198VA	LCD HOOK	1
K29	DFMD2162ZA	LCD PROTECT PLATE	1
K30	DFMX1231YA	INVERTER BOX	1
K31	DFBD9009ZA-0	DISK EJECT KNOB ASSY 2	1
K32	DFBD0182ZA-0	LAN SW KNOB	4
K33	DFBD0189ZA-0	POWER KNOB	1
K34	DFDF5023ZA	DISK COVER SHAFT	1
K35	DFGX0464ZA-0	FOOT RUBBER BACK OS	2
K36	DFHE0463ZA	EMI SHEET 3	1
K37	DFHE0957ZA	GASKET CLOTH	1
K38	DFHE1003ZA	DRIVE EMI SHEET	2
K39	DFHG1858ZA-0	KB SIDE RUBBER	2
K40	DFHG1869ZA	CPU CUSHION	1
K41	DFHG1908ZA	LINE HOLD CUSHION	1 1
K42	DFHG1957ZA	BT PWB CUSHION 1	1
K43	DFHR3D21ZB	LINE HOLD SHEET 1	4
K44	DFHR3D23ZA	DISK ANGLE WP SHEET	1
K45	DFHR3D24ZA	KBD FPC WP SHEET	1
K46	DFHR3D25ZA	HDD WP SHEET	1
K47	DFHR3D59YA	LINE HOLD SHEET 3	1
K48	DFHR3D60ZA	MCH SHEET	1
K49	DEHR3D75ZA	LINE HOLD SHEET 4	1 1
K50	DFHR3D76ZA	LINE HOLD SHEET 5	1
K51	DFHR3D777A	LINE HOLD SHEET 6	1
K52	DFHR3D80ZA	FAN/SP CABLE FIX SHEET	3
K53	DEHR3D827A	LINE HOLD SHEET 7	1
K54	DEHR3D847A	LINE HOLD SHEET 9	1
K55	DEHR3E227A	ANTENNA CABLE PROTECT SHEET	1
K56	DEHR3E35ZA	DISK SIDE COVER FIX SHEFT	1
K57	DEHR6230ZA	DC MDM COVER	1
K58	DEKE08377A-0	KB SIDE COVER-I	
K59	DEKE083874-0	KB SIDE COVER-R	
K60	DEKE083974-0	DISK SIDE COVER	- 1
K61	DEKE08407A	HDD SLOT GUARD	
K62	DEKE089474-0	HDD COVER OS	
1102	DINEUUUTENU		- V.

K63	DFMD1202ZA	DC JACK PLATE	1 1
K64	DFMX1228ZA	MAIN PWB SHEET	1
K65	DFMY0428ZA	FAN SHEET	1
K66	DEMY0430ZA	CPU THERMAL TAPE	1
K67	DEMY0431ZA	CPU THERMAL SHEET	1
K68	DEMY32217A	HEAT SPREADER	1
K69	DEMY3222ZA	HEAT SPREADER BOTTOM	1
K70	DEMY32237A	KB HEAT SPREADER	1
K71	DEMY32247A	WI AN SHEET	1
K72	DEMY32277A	CPU THERMAL PLATE	1
K73	DEMY32287A	MCH THERMAL PLATE	
K74	DEHG1956ZA	HDD CASE Y5 OS	1
K75	DEOX3999XA	OVERIAMINATE-LARGE	1
K76	DEOT0045ZA	ENERGY STAR LABEL	1
K78	DEOT99817A	CENTRINO DUO LABEL	
K79	DEHE08627A	EILM IMPEDOR	2
K80	DEHE10097A	MDC EMI SHEET	1
K81	DEBC032078-0	PAD BUTTON	1
K82	DEBS0075VA-0	I CD KNOB 2	1
K83	DEGE0134VA-0	PAD COVER	
K84	DEGL013774-0	LED LENZ BATT	1 1
K85	DEGL01477A-0	I CD LENS PAD	1
K86	DEGI 01497A-0	LED LENZ SD	
K87	DEGX04497A-0	PALMREST SHEET I	1
K88	DEGX0450XA-0	PALMREST SHEET R/TOUCH MULTIN	
K89	DEGX90267A-0	PAD RING TOP	1
KOD	DEHEOOO37A	GASKET PAD	-
Kol	DEHE1010ZA		2
Koz	DEHG17787A		
K03	DEHG18607A	I CD KNOB WP CUHSION	1
Kov	DEHG18617A	DISK COVER CUSHION	
K95	DEHG18627A	LED CUSHION	1
K96	DEHG18637A	SPEAKER CLISHION	2
K07	DEHG18657A	HDD DAMPER	2
K08	DEHG186674	BOTTOM WE CUSHION	1
K00	DEHG186774	DISK COVER WE CLISHION	1
K100	DEHG186874	DISK ANGLE CUSHION	3
K100	DEHG18787A	EAN CUSHION	3
K102	DEHG18987A	FRONT WP CLISHION	1 1
K102	DEHG18997A	PAD BUTTON WP CUSHION I	-
K103	DEHC19007A	PAD BUTTON WP CUSHION P	-
K104	DEHG19097A	DISK ANGLE WE CUSHION	2
K105	DEHC10107A	DISK ANGLE WE COSTION	4
K100	DEHC19127A	DISK COVER WE CUSHION SMALL	
K107	DEHC19147A	DISK GOVER WE COSHION SMALL	1
K100	DEHD7106VA	BOTH SI DES TAPE	
K109	DEUD71977A	HOOK TAPE	
KIIU KIII	DEHD72007A		
K110	DELID70267A		-
K112	DEHD720774		-
KI13	DELIDZOGOZA		
K114	DFHP7238ZA		1
K115	DFHP7248ZA	WATER CAP TAPE	1
K116	DFHP7249ZA	PAD RING TOP TAPE	1
K117	DFHP7253ZA	DC JACK CABLE TAPE	1
K118	DFHP7254ZA	KBD FIX TAPE	1
K119	DFHP7255ZA	KBD TAPE	2
K120	DFHR3067ZA	DU CON SCREEN SHEET B	1
K121	DFHR3812YA	SPEAKER RING 20	2
K122	DFHR3D20ZA	SOLENOID LINE HOLD SHEET	

K123	DFHR3D21YA	LINE HOLD SHEET 1	1
K124	DFHR3D22ZA	LINE HOLD SHEET 2	1
K125	DFHR3D26YA	PAD WP SHEET	
K126	DFHR3D27ZA	DISK SPRING BACKUP SHEET	2
K127	DFHR3D28ZA	PAD SW SHEET	
K128	DFHR3D29ZA	BREAK LEBER SHEET	
K129	DFHR3D30ZA	KBD HOOK WP SHEET	
K130	DFHR3D33ZA	SIDE WP SHEET2	
K131	DFHR3D61ZA	AUDIO JK SHEET	
K132	DFHR3D63ZA	SOLENOID SPACER	
K133	DFHR3D74ZA	WATER DETECTOR	
K134	DFHR3D78ZA	DISK COVER SPACER 1	
K135	DFHR3D79ZA	DISK COVER SPACER 2	
K136	DFHR3D83ZA	LINE HOLD SHEET 8	
K137	DEHR3D85ZA	DISK COVER SHEET	
K138	DFHR3E05ZA	KBD BACKUP SHEET	
K139	DEHR3E11ZB	DISK SHAFT FIX SHEFT	
K140	DEHR3E38ZA	BOTTOM BATTERY SHEET	-
K141	DEHR3E867A	POWER KNOB SHEET	-
K142	DEHR3E877A	DVD KNOB SHEE	
K142	DEHR3E177A	WI AN KNOB SHEET	
K144	DEHR61757A	DISK COVER LOCK HOLDER	
K145	DENDE1987A	DISKLOCK BUSH	
K145	DENDESSEZ	DISK COVER HOOK	
K140	DEHD62677A	DISK COVER SIDE HOOK	
K147	DEHD62697A	WATER CAR	
K140	DEKE001574 0	DIMM COVED LICHT	
K149	DEKE08417A		
KIDU	DEKE0369VA 0	DISK ANGLE	
K151	DFKF0268YA-0	BOTTOM CASE	
K152	DFHG377ZA-0	FOOT RUBBER	
K153	DFGX0469ZA-0	FOUT CENTER US	
K154	DFGX0468ZA-0		
K 100	DEKMOS117A O	DISK COVED	
K100	DEMD11007A	DISK COVER	
K15/	DFMD1199ZA	DISK COVER LOCK	
K158	DFMD1201ZA	SOLENOID ANGLE	
K159	DFMD2174ZA		
K160	DFMX0881ZA	INSULATION SHEET	4
K161	DFMX1229ZA	DVD PWB SHEET	
K162	DFMY0432ZA	DIMM THERMAL SPONGE	
K163	DFMY3231ZA	DIMM HEAT SHEET	
K164	DFQ16342ZA	DIMM COVER SHEET T5	1
K165	DFUD0041ZA	LCD LATCH SPRING	
K166	DFUD0042ZA	DISK COVER LOCK SPRING	y 2
K167	DFUN0081ZA	DISK COVER ARM SPRING	
K168	DFUS0313ZA	DISK COVER CLICK WP	1
K169	JDBC0044ZA	BREAK SPRING	1
K170	JDBG0032ZA	BREAK PAD	1
K171	JDKJ0059ZA	BREAK LEVER	
K172	DFHR6232ZB	MODEM LAN HOLDER	
K173	DFMX1230ZB	PCMCIA SHEET	1
K174	DFMX1244ZA	LAN ESD SHEET	- 1 h - 12
K175	DFMY3225ZA	MEMORY SPREADER	1 3
K176	DFQT0046ZA	VISTA CAPABLE LABEL	
K177	DFGT1209ZA	BOTTOM SHEET	
N1	DFHE5035ZB	SCREW	1 4
		DODDENN	

N3	DXHM0049ZA	SCREW	2
N4	DXHM0056ZA	SCREW	5
N5	DXHM0057ZA	SCREW	8
N6	DXQT2+D25FNL	SCREW	13
N7	DXQT2+D4FNL	SCREW	3
N8	DXQT2+E10FNL	SCREW	4
N9	DXQT2+E12FNL	SCREW	8
N10	DXQT2+E6FNL	SCREW	11
N11	DXYN26+J6FNM	SCREW	2
N12	XTB26+10GFN	SCREW	2
N13	DXQT2+F2FNL	SCREW	1 - 1
N14	XSB2+4FNL	SCREW	1
N15	K1YE50000022	SCREW, IO PIN	2
N16	DXQT2+F3FNL	SCREW	4
N17	DRHM0076ZA	SCREW	4

Replacement Parts List

Note: Important Safety Notice

Components identified by 2 mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

CF-Y5LWVYZBM (2006/11/16) **REF. NO and AREA** PART NO. DESCRIPTION Q'TY MAIN PCB C 1, 212, 708, 711 EEFSX0D331ER CAPACITOR, 2V, 330µF 4 C 2, 3, 4, 6, 7, 8, 11, 12, F1J0J1060004 CAPACITOR, 6.3V, 10µF 36 13, 15, 16, 17, 19, 20, 21, 23, 24, 25, 26, 29, 30, 31, 32, 33, 34, 35, 36 37 38 39 40 41 EEFCX0D221R CAPACITOR, 2V, 220µF C 5, 60, 61, 69, 89, 181, 7 C 9, 10, 14, 18, 22, 27, 50, F1G1C104A042 CAPACITOR, 16V, 0.1µF 156 51, 52, 57, 64, 65, 66, 68, 71, 85, 90, 92, 95, 96, 99, 100, 101, 102, 105, 106, 107, 108, 111, 112, 114, 115, 118, 119, 127, 128, 134, 135, 136, 137, 142, 143, 144, 145, 146, 147, 148, 168, 169, 170, 171, 175, 177, 178, 180, 182, 183, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 207, 208, 210. 217, 219, 221, 222, 228, 233, 234, 236, 239, 241, 243, 245, 247, 249, 252, 255, 257, 262, 275, 283, 289. 290, 291, 292, 293, 294, 295, 296, 298, 305, 310, 311, 313, 314, 315, 316, 317, 318, 319, 321, 323, 326, 328, 332, 347, 358, 364, 375, 377, 378, 379, 383, 384, 386, 392, 393, 394, 402, 406, 413, 430, 431, 434, 435, 436, 437 438 442 444 445 CAPACITOR, 25V, 0.01µF 23 C 46, 151, 152, 153, 154, F1G1E103A062 174, 179, 218, 230, 231 238, 240, 260, 272, 277, 308, 312, 340, 401, 602, 605 692 731 CAPACITOR, 6.3V, 10µF C 48, 58, 59, 62, 63, 70, F1J0J106A016 26 72, 74, 87, 93, 167, 176, 206, 254, 297, 303, 304, 325, 339, 368, 395, 441, 446, 447, 668, 695 C 49, 251 F1G1H222A496 CAPACITOR, 50V, 2200pF 2 CAPACITOR, 10V, 0.1µF 11 C 53, 54, 165, 166, 337, F1G1A104A014 342, 343, 344, 345, 729 730 C 55, 56, 67, 78, 79, 94, F1H1A1050015 CAPACITOR, 10V, 1µF 36 97, 98, 103, 104, 109, 110, 113, 116, 117, 138, 139, 140, 141, 172, 173 184, 186, 214, 216, 237, 301, 322, 338, 346, 351 390 399 606 694 702 C 73, 76, 88, 91 F1G1A474A018 CAPACITOR, 10V, 0.47µF 4

C 77, 80, 149, 150, 330, 341, 348, 370, 372, 373,	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	13
374, 409, 421 C 81, 82, 83, 84, 86, 129, 155, 156, 157, 158, 391,	F1H0J1050022	CAPACITOR, 6.3V, 1µF	12
C 120, 121	F1G1H3R3A543	CAPACITOR 50V 3.3pF	2
C 159, 160, 620, 623, 628,	F1G1H220A542	CAPACITOR, 50V, 22pF	8
C 213, 215	F1G1H4R0A543	CAPACITOR 50V. 4pF	2
C 223 224 226 227 281	F1G1H330A542	CAPACITOR 50V 33pE	11
282, 284, 285, 286, 287, 288			- 12
C 225, 229, 256, 360, 361, 387, 388, 389, 403, 405, 407, 408, 422, 423, 424, 425, 426, 427, 428, 429, 443, 619, 622, 626, 644, 647, 663, 665, 670, 682, 680, 714, 746	F1G1H102A496	CAPACITOR, 50V, 1000pF	33
C 235, 624, 649, 687, 718, 726	F1J0J475A009	CAPACITOR, 6.3V, 4.7µF	6
C 242, 248	F1G1H8R0A544	CAPACITOR, 50V, 8pF	2
C 279, 398, 614, 629, 705, 706, 707, 722, 723, 732, 733, 734	F1K1E106A078	CAPACITOR, 25V, 10µF	12
C 280, 306, 307, 362, 363, 385, 615, 664, 691	F1G1H1010005	CAPACITOR, 50V, 100pF	9
C 320, 324	F1G1H5R0A543	CAPACITOR, 50V, 5pF	2
C 329	F1L3D1020006	CAPACITOR, 1KV, 1000pF	1
C 333, 334, 335, 336, 349, 353, 366	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	7
C 354, 356	F1L0J107A016	CAPACITOR, 6.3V, 100µF	2
C 367, 439	F1G1H471A496	CAPACITOR, 50V, 470pF	2
C 400	F1G1A683A014	CAPACITOR, 10V, 0.068µF	1
C 411, 412, 642	F1G1H470A542	CAPACITOR, 50V, 47pF	3
C 415	F1L1H220A066	CAPACITOR, 50V, 22pF	1
C 601	F1H1H104A731	CAPACITOR, 50V, 0.1µF	1
C 603, 651, 652, 653, 658, 673, 677, 693	F1L1E106A021	CAPACITOR, 25V, 10µF	8
C 607	F1J1E105A009	CAPACITOR, 25V, 1µF	1
C 608	F1J1E104A081	CAPACITOR, 25V, 0.1µF	1
C 611, 612 C 616, 618, 625, 659, 662, 669, 678, 681, 688, 697, 699, 700, 703, 704, 710	F1H1H104A748	CAPACITOR, 53V, 100µF CAPACITOR, 50V, 0.1µF	15
C 617, 627	F1H1H103A748	CAPACITOR, 50V, 0.01µF	2
C 621, 648, 661, 666, 672, 679, 684, 685, 725	F1G1H221A495	CAPACITOR, 50V, 220pF	9
C 630, 675	EEFCX0G151R	CAPACITOR, 2V, 150µF	2
C 631, 636, 637, 638, 640, 724	F1G1C473A004	CAPACITOR, 16V, 0.047µF	6
C 643	F1G1H151A495	CAPACITOR, 50V, 150pF	1
C 645	F1H1H1830001	CAPACITOR, 50V, 0.018µF	1
C 646	F1G1H561A496	CAPACITOR, 50V, 560pF	4
C 650	F1J1H224A533	CAPACITOR, 50V, 0.22µF	1
C 660 600	EAUTUATOATAR	CAPACITOR, 2V, 1000F	3
C 671 680	F1H1H192A748	CAPACITOR 50V 19005	2
C 698	EFECDOD151EP	CAPACITOR 2V 1500F	2
C 701	F1G1H152A496	CAPACITOR 50V 1500pF	
C 715	F1G1H331A496	CAPACITOR, 50V, 330pF	1
C 720	F1H1H222A748	CAPACITOR, 50V. 2200pF	1
JF 1	D4CC1103A038	THERMISTOR	1
CN 2	K1MMH2B00003	CONNECTOR	1
	10111100010011	CONVECTOR	

CN 4		K1MN50BA0153	CONNECTOR	
CN 6		K1MN24BA0070	CONNECTOR	
CN 7	1111	K1FY150BA007	CONNECTOR	11111
CN 8	1100	K1MN60B00008	CONNECTOR	10.00
CN 9	1100	K1KA05BA0181	CONNECTOR	1. 1. 1.
CN 10		K1KY30BA0062	CONNECTOR	14 14 18
CN 11		K1FB315BA003	CONNECTOR	11111
CN 12		K1NA09E00076	CONNECTOR	
CN 13	1	K1NA68E00096	CONNECTOR	. 1
CN 14	1	K1KA08BA0181	CONNECTOR	1.
CN 15		K1KA04BA0014	CONNECTOR	1111
CN 17		K1KY12A00004	CONNECTOR	10.17
CN 18	1.1.4	K1MY52BA0190	CONNECTOR	
CN 20	1.1.1	K1MN12BA0070	CONNECTOR	1111
CN 21		K1MY10BA0105	CONNECTOR	
CN 23		K1KA12BA0181	CONNECTOR	
CN 24	1	K1MY16BA0097	CONNECTOR	
CN 25		K1MY10BA0102	CONNECTOR	
CN 600	-	K1KA10B00233	CONNECTOR	
CN 601		K1KA02B00292	CONNECTOR	
D1 2 3 10	-	MA2.1729001	DIODE	
D 4		MA31741E01	DIODE	
D5.6	-	BOKBOODOOM	DIODE	
D 7 8 9 601 602 604	-	BOADDHOOOOA	DIODE	
D 11 600 603	-	BOADDH00004	DIODE	
D 11, 600, 603	-	MADSIAA TY	DIODE	
D 12, 619, 621	-	MA25111-1X	DIODE	
D 13,	-	B3A660000196	DIODE	
D 14	-	B3AKB0000008	DIODE	
D 15, 20	-	B3ACB0000020	DIODE	
D 16, 17, 18, 19	1	B3ABB0000164	DIODE	
D 605		MA281200ML	DIODE	
D 606	_	MAZ81800ML	DIODE	
D 607, 622	_	MA3S132E0L	DIODE	
D 608	1	B0JCQD000001	DIODE	I I I I I
D 609, 611, 624, 626, 627, 629, 630, 633		B0JCMD000010	DIODE	
D 610, 625, 628		B0JDAE000004	DIODE	
D 612, 613, 614, 615, 617,	1.	MAZ80510ML	DIODE	
618 D 616	-	MAZPOGOOMI	DIODE	
D 616		P3A PAM000002	DIODE	
D 622 622 640	-	DEDDDD004100	DIODE	_
D 623, 032, 040	-	MAZROZEDAU		
E 1 0	A	KEH2021A0002		_
E /	0	K5H400700000		
F 4	0	K5H900200003	FUSE, 4A, 32V	
F 000	10	K5H202200005	FUSE, ZA, SZV	
FOUU	1	N3H802300002	PUSE, 6A	
101		C2GBC0000304		
10.2	-	C1CB00002432	IC, CHIP SET	11.14
10.3		G1DB00001541	IC, CHIPSET	11.17
16.4		CODBZYY00017	IC .	
IC 5, 6, 7, 8, 9, 10, 11, 12		C3ABSG000030	IC, SDRAM	
IC 13	1	C0JBZZ000388	IC, CLOCK GENERATOR	
IC 15		COCBCAC00183	IC, REGULATOR	[] [] [] [] [] [] [] [] [
IC 16	100	COCBCBG00008	IC, REGULATOR	1000
IC 17		C1DB00001182	IC, LAN CONTROLLER	11.11
IC 18		C3EBCG000100	IC, EEPROM	1113
IC 19		COCBCBC00137	IC, REGULATOR	11234
IC 20		C1CB00002540	IC, TEMPERATURE CENSOR IC	
IC 21, 22, 69		CODBZYY00026	IC, USB POWER SW	
IC 23		C3EBEC000061	IC, EEPROM	1.1
	_			

IC 25, 64, 68		C0JBAZ002422	IC, FET SWITCH	3
IC 26, 37, 38	111	C0EBE0000460	IC	3
IC 27, 29	1	C0JBAR000515	IC, Q-SWITCH	2
IC 28	1.0	CODBZYY00016	IC	1
IC 30		C1CB00002449	IC, AUDIO CODEC	1
IC 31		COCBCBC00181	IC	1
IC 32		C1AB00002507	IC, AUDIO POWER AMPLIFIER	4
IC 33	123	C1CB00002268	IC, SECURITY CHIP	1
IC 34	1.1	C3FBLY000024	IC, SPI FLASH MEMORY	1
IC 36		C2CBJA000003	IC, MICON	1
IC 42		C0JBAB000832	IC, LOGIC	1
IC 43, 44, 54, 55, 61, 614	1.1.4	C0JBAA000362	IC, LOGIC	6
IC 45, 51	1.0	C0JBAE000321	IC, LOGIC	2
IC 46, 47, 48, 49,	I have a	C0JBAA000345	IC, LOGIC	4
IC 50		C1CB00002295	IC	1
IC 52, 603, 604		C0JBAB000621	IC, LOGIC	3
IC 53, 601		C0ABBA000093	IC. OP AMP	2
IC 58	101	C0DBZYY00019	IC, POWER MANAGEMENT SWITCH	1
IC 63	1	C0JBAB000686	LOGICIC	1
IC 600, 602, 609	1	C0DBALH00003	IC	3
IC 605		CODBAYY00155	IC, DC/DC	1
IC 606		C0DBEFH00002	IC, REGULATOR	1
IC 607		CODBDJH00009	IC, LINER	1
IC 608		C0ABZA000047	IC, AMP	1 1
IC 610		C0EBE0000333	IC	1
IC 615		CODBAZZ00098	IC	1 1
IC 617		C0EBE0000591	IC. RESET	1 1
KJ 1, 2	1	K2HC1YYB0027	JACK	2
L1.3		G1C1R0MA0076	INDUCTOR	2
12		G1C91NM00001	INDUCTOR	1
1.4		J0JJC0000021	INDUCTOR	1
1 5 7 11 15 26		J0.1HC0000074	INDUCTOR	5
L 9 10 13 14 27 28 29		J0JCC0000186	INDUCTOR	11
30, 31, 32, 33			104 - F. J C.	
L 17, 18, 19	10.1	J0JBC0000072	INDUCTOR, FILTER	3
L 20	11.4	G1C1R0Z00002	INDUCTOR	1
L 21, 22, 23, 24		J0ZZB0000080	IDUCTOR, COMMON MODE FILTER	4
L 25		DDB5Z024E-L	INDUCTOR	1
L 34, 35, 36, 37		DDB5Z024C-L	IDUCTOR, FERRITE PARTS	4
L 38, 39, 40, 41, 42, 43		DDB5Z021C-Y	INDUCTOR	6
L 44		J0MAB0000116	INDUCTOR	1
L 600	1.11	J0JKC0000007	INDUCTOR	1
L 601, 606, 607		G1C4R7MA0022	INDUCTOR	3
L 602	101	G1C100MA0022	INDUCTOR	1
L 603	1	G1CR56ZA0140	COIL	1
L 604		G1C2R8MA0022	INDUCTOR	1
L 605	1 mi	G1C220MA0077	INDUCTOR	1
L 608		G1A160H00001	INDUCTOR	1
L 609	1 1.4	G1C4R7MA0273	COIL	1
PA 1, 2, 3	A	D4FB1R100009	SWITCH	3
Q 1, 24		B1GDCFNN0031	TRANSISTOR	2
Q 2, 3, 4, 25, 34, 604, 606, 619, 645, 646, 651, 652, 652, 657, 650		B1GBCFJN0037	TRANSISTOR	15
053.057.658.		B1CHRC000009	FET	2
06727654 662		BICECOMMON	TRANSISTOR	5
0 10 36 29 646 624		PTCFGD000023	TDANSISTOR	C C
628 631 632 634 635		AF0421300L	TANSISTOR	11
Q 11, 30, 626, 630, 633		B1DHDC000028	TRANSISTOR	5
Q 19		B1GDCFJJ0050	TRANSISTOR	1
A SHARE AN	-			

Q 26	B1GFCFEN0003	TRANSISTOR	1
Q 28, 35, 37	B1MBDCA00004	TRANSISTOR	3
Q 29, 39, 601, 603, 605, 611, 624	B1GBCFNN0042	TRANSISTOR	7
Q 40	B1GBCFNL0017	TRANSISTOR	1.1.11
Q 600	XP0421400L	TRANSISTOR	1 1
Q 602	B1CFMC000008	TRANSISTOR	1
Q 607, 608, 609, 610	B1CHRD000001	TRANSISTOR	4
Q 612, 613	B1CFRD000014	FET	2
Q 614, 643, 647, 659	B1CFGD000003	TRANSISTOR	4
Q 615, 644	B1MBEDA00017	TRANSISTOR	2
Q 637, 639, 641, 642, 650, 656, 660	B1DBGD000006	TRANSISTOR	7
Q 638, 640	B1DFGD000032	TRANSISTOR	2
Q 648	B1MBEDA00018	TRANSISTOR	1
Q 649	B1CFRD000013	FET	1
Q 655	B1DHFD000015	TRANSISTOR	1
Q 661, 665	B1DHFD000017	TRANSISTOR	2
R 1, 57, 58, 62, 190, 218, 235, 272, 273, 275, 392, 393, 478, 479, 480, 492, 656	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	11
R 2, 5, 6, 9	ERJ2GEJ510X	RESISTOR, 1/16W, 51Ω	4
R 13, 14, 65, 203, 237, 332, 350, 362, 413, 464, 465, 466, 467, 473, 474, 502, 504, 508, 608, 609, 667, 668, 673, 676, 677, 678, 679, 697, 811	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	29
R 15, 695, 696	ERJ2RKF1001X	RESISTOR, 1/16W, 1KQ	3
R 16	ERJ2RKF2001X	RESISTOR, 1/16W, 2KQ	1
R 18	ERJ2RKF51R0X	RESISTOR, 1/16W, 510	1
R 19, 21	ERJ2RKF27R4X	RESISTOR, 1/16W, 27.4Ω	2
R 20, 22, 32, 33	ERJ2RKF54R9X	RESISTOR, 1/16W, 54.9Ω	4
R 24	ERJ2GEJ680X	RESISTOR, 1/16W, 68Ω	1
R 25, 27, 28	ERJ2GEJ560X	RESISTOR, 1/16W, 56Q	3
R 26	ERJ3GEYJ201V	RESISTOR, 1/16W, 200Ω	1
R 30, 34, 35, 86, 228	ERJ2RKF24R9X	RESISTOR, 1/16W, 24.9Ω	5
R 31, 354, 610, 614, 616, 747	ERJ2GEJ562X	RESISTOR, 1/16W, 5.6KΩ	6
R 37, 39	ERJ2RKF2210X	RESISTOR, 1/16W, 2210	2
R 38, 40, 42	ERJ2RKF1000X	RESISTOR, 1/16W, 100Ω	3
R 41	ERJ2RKF2000X	RESISTOR, 1/16W, 200Ω	
R 63	ERJ2RKF1002X	RESISTOR, 1/16W, 10KQ	1
R 66, 319, 320, 325, 326, 394, 395	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KQ	7
R 74, 75	ERJ2RKF80R6X	RESISTOR, 1/16W, 80.6Ω	2
R 78, 170, 196, 197, 220. 268	D1H81034A024	RESISTOR ARRAY	6
R 79, 80	ERJ2GEJ390X	RESISTOR, 1/16W, 39Ω	2
R 81, 285	ERJ2RKF1501X	RESISTOR, 1/16W, 1.5KD	2
R 82	ERJ2RKF2550X	RESISTOR, 1/16W, 255Ω	1 - 1
R 83, 84, 85, 327, 328, 329, 488, 489, 490	ERJ2RKF1500X	RESISTOR, 1/16W, 150Ω	9
R 91	ERJ3GEYJ220V	RESISTOR 1/16W 220	1.

R 93, 176, 177, 234, 243,	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	.59
263, 264, 277, 282, 283,	and the second se		
284, 289, 290, 291, 298,			
300, 303, 315, 335, 336,			
338, 348, 349, 358, 372,			
402 415 421 422 426			
428 437 444 447 448			
452, 453, 471, 472, 483,			
484, 619, 639, 644, 688,			
704, 708, 712, 713, 728,			
R 95, 96, 97, 98	ERJ2GEJ201X	RESISTOR, 1/16W, 2000	4
R 99, 100, 101, 102, 127,	D1HG1008A001	RESISTOR ARRAY	8
128, 129, 130			13.0.*
R 103, 104, 105, 106, 107,	ERJ2GEJ100X	RESISTOR, 1/16W, 10Q	37
108, 109, 110, 111, 112,	the second se	the second	1.1
113, 114, 115, 116, 117,			
123 124 125 126 341			
636 637 649 650 705			
706, 716, 717, 725, 726.			
737 738	50 100505000	DEDIDTOD ANOLY AD	
R 131, 132, 133, 134, 135,	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	71
130, 137, 138, 139, 140,			
146, 147, 148, 149, 150			
151, 152, 153, 154, 155,			
156, 172, 189, 192, 194,			
224, 226, 233, 238, 239,			
240, 247, 252, 257, 299,			
317, 333, 346, 385, 407,			
430, 435, 439, 440, 449,			
400, 400, 401, 400, 407, 401 501 511 512 600			
692 703 719 760 761			
763, 768, 773, 774, 785,			
R 157, 158, 159, 160, 161,	D1HA56080001	RESISTOR ARRAY	7
162, 163			
R 165, 171, 215, 248, 249,	ERJ2GEJ104X	RESISTOR, 1/16W, 100KΩ	37
250, 308, 309, 310, 311,		a star a bar	
331, 334, 337, 342, 343,			
461 475 476 503 506			
611, 621, 623, 624, 625,			
662, 664, 666, 672, 781,			(11.5.2
782 797 R 166 167 168 169 245	ERJ3GEV HROV	RESISTOR 1/16W 10	2
699, 762, 769		ALOIOTON, MIDW, 142	0
R 174	D1H81004A024	RESISTOR ARRAY	1
R 179, 180, 181, 182, 183,	ERJ2GEJ330X	RESISTOR, 1/16W, 33Ω	22
184, 185, 186, 191, 217,			
211, 218, 219, 368, 404,			
424, 493, 494, 496, 497, 498, 497,			
R 216	D1H84724A024	RESISTOR ARRAY	1
R 219, 265, 266, 267, 455,	DEARA8AJ103M	RESISTOR ARRAY	8
456, 457, 486	ED IDOE MOON	DEPIRTOR 44044 470	
R 221, 222, 295, 443, 463, 469	ERJ2GEJ4/UX	RESISTOR, 1/16W, 4/11	6
R 229	ERJ2RKF22R6X	RESISTOR, 1/16W, 22.6Ω	1
R 242, 254, 270, 292, 347,	ERJ2GEJ473X	RESISTOR, 1/16W, 47KQ	16
370, 371, 378, 400, 505,	A STATISTICS A PERC	Carabitration of the second strength	
515, 517, 620, 634, 684,			
780 P 246	ED IDOEV HOAV	DESISTOR 1/15/0(1200	
D 255 290 265 652	ED 100E 1004V	DESISTOR, 1/16W, 12012	
R 259, 200, 000, 000	ER IDGE IDDOV	RESISTOR 1/16W 20KO	4
D 250	ED DOE HOOV	DESISTOR 1/16W 10MO	

R 260, 361, 397, 398, 622,	ERJ2GEJ105X	RESISTOR, 1/16W, 1MQ	
R 261	ERJ2RKE3922X	RESISTOR 1/16W 39 2KO	
R 262	ER I2RKE2002X	RESISTOR 1/16W 20KO	
R 274 302 754	ER 12GE 1472X	RESISTOR 1/16W 4 7KO	
P 286 287	ER I2RKE30R0X	RESISTOR 1/16W 390	
D 289	ER IODVEDADAY	RESISTOR, 1/16W, 3432	
D 204 206 767 775 776	ERJ2NKI 245 IX	RESISTOR 1/16W 00	
R 294, 290, 767, 775, 770	ERJ3GEYURUUV	RESISTOR, 1/16W, 00	
R 314, 316, 330, 380	ERJOGE TURUUV	RESISTOR, 1/10W, 002	
R 339, 495	1010000396	RESISTOR, 1/16VV, 1200	
R 353	ERJ2RHU562X	RESISTOR, 1/16W, 5.6KD	
R 356, 357, 359, 360	ERJ2RKF49R9X	RESISTOR, 1/16W, 49.902	
R 367	EXBV8V750JV	RESISTOR ARRAY	
R 369, 759	ERJ2RKF5101X	RESISTOR, 1/16W, 5.1KΩ	
R 376, 377	ERJ3GEYJ330V	RESISTOR, 1/16W, 33Ω	1.1
R 384	D1H84734A024	RESISTOR ARRAY	
R 386	ERJ2GEJ1R0X	RESISTOR, 1/16W, 10	1
R 387, 390, 680	ERJ2GEJ223X	RESISTOR, 1/16W, 22KQ	
R 401, 470, 757	ERJ2GEJ471X	RESISTOR, 1/16W, 470Ω	
R 446	ERJ2RKF3901X	RESISTOR, 1/16W, 3.9KD	4
R 451, 603, 607	ERJ2RHD103X	RESISTOR, 1/16W, 10KQ	
R 462	ERJ6GEYJ221V	RESISTOR, 1/10W, 2200	
R 468	ERJ2GEJ391X	RESISTOR, 1/16W, 390Ω	
R 507	ERJ2GEJ273X	RESISTOR, 1/16W, 27KQ	1.1
R 513	ERJ2GEJ181X	RESISTOR, 1/16W, 1800	
R 601	ERJ3GEYJ562V	RESISTOR, 1/16W, 5.6KΩ	100
R 602	D1ZZ00000046	RESISTOR, 1W. 5mQ	
R 604	D1BDR4700001	RESISTOR, 1/8W, 0.47Q	
R 605 613	ERJ2RKD244X	RESISTOR 1/16W 240KO	100
R 606 612	ER I2RKD364X	RESISTOR 1/16W 360KO	
R 615 617	ER (1TY (3311)	RESISTOR 1W 3300	
P 618	ER ISCEV ISRSV	RESISTOR 1/16W 330	
D 696 697	D10000000	REGISTOR, 1/10W, 5.50	
D 620, 027	D180R1000002	RESISTOR, 1/8W, 0.112	
R 020, 753, 750	D100000001	RESISTOR, 1/6W, 0.00602	
742 777	DIBDR0220001	RESISTOR, 1/8VV, 0.02202	
R 630, 631	D1BDR018A099	RESISTOR, 1/3W, 0.018Ω	
R 632	ERJ2RKF1102X	RESISTOR, 1/16W, 11KQ	
R 633	ERJ2RKE1302X	RESISTOR 1/16W, 13KO	
R 635, 654, 718, 720, 739, 745, 772, 778	ERJ2GEJ474X	RESISTOR, 1/16W, 470KΩ	
R 638, 707, 727	ERJ2GEJ153X	RESISTOR, 1/16W, 15KQ	
R 640, 709, 729	ERJ3GEYJ100V	RESISTOR, 1/16W, 10Ω	
R 641, 648	ERA3YEB622V	RESISTOR, 1/16W, 6.2KQ	
R 642, 751	ERA3YKB104V	RESISTOR, 1/16W, 100KΩ	
R 643, 731	ERA3YEB203V	RESISTOR, 1/16W, 20KQ	
R 645	ERJ2GEJ333X	RESISTOR, 1/16W, 33KQ	
R 646	ERA3YEB333V	RESISTOR, 1/16W, 33KQ	
R 647.753	ERA3YEB123V	RESISTOR, 1/16W, 12KQ	1
R 651, 652, 723	D1BDR0330001	RESISTOR, 1/8W, 0.0330	
R 663	ERJ2GE-1684X	RESISTOR 1/16W 680KO	110
R 665	EBJ2GEJ225X	RESISTOR 1/16W 2 2MO	
R 681 814	ER.I6GEV 11221/	RESISTOR 1/10W 12KO	
R 682 683	ER (6GEV 1999)/	RESISTOR 1/10W 22KD	
D 687	ED IODVERIOOV	RESISTOR 1/16W STOKO	
D 690	ED IDDEE 1000V	DESISTOR 1/18/1/ 100KO	
N 009		DEDISTOR ALLOW ADD	
R 090	ERJ2RKF1800X	RESISTOR, 1/10W, 1800	
K 093	ERJ2RHD222X	RESISTOR, 1/16W, 2.2KD	
R 694, 710	ERJ2RKF4701X	RESISTOR, 1/16W, 4.7KQ	
R 700	D1ZZ00000093	RESISTOR, 1W, 1mQ	
R 711, 735	ERJ2RKF1502X	RESISTOR, 1/16W, 15KΩ	
R 714	ER 12RKE5102X	RESISTOR 1/16W 51KO	

R 715	(TT)	ERJ2RKF2402X	RESISTOR, 1/16W, 24KQ	1
R 721, 779, 824	1.1	D1BDR0470002	RESISTOR, 1/8W, 0.047Ω	3
R 730	1	ERA3YEB621V	RESISTOR, 1/16W, 620Ω	1
R 732	0.00	ERA3YEB243V	RESISTOR, 1/16W, 24KQ	1
R 736	110.0	ERJ2RHD123X	RESISTOR, 1/16W, 12KQ	10 1 H (1)
R 740		ERJ2GEJ221X	RESISTOR, 1/16W, 2200	
R 744		ERJ2RKD114X	RESISTOR, 1/16W, 110KΩ	1
R 746	1	ERJ2RHD3652X	RESISTOR, 1/16W, 36.5KΩ	1
R 748	1.	ERJ2GEJ154X	RESISTOR, 1/16W, 150KΩ	1
R 749, 750	111	ERJ2RHD302X	RESISTOR, 1/16W, 3KQ	2
R 752	100	ERA3YEB153V	RESISTOR, 1/16W, 15KQ	101
R 758		ERJ2RKF4702X	RESISTOR, 1/16W, 47KΩ	- 1-
R 766.		ERJ3GEYJ101V	RESISTOR, 1/16W, 1000	1
R 771	1.1	ERJ2RKF6801X	RESISTOR, 1/16W, 6.80KΩ	1
R 783	1	ERJ2RKD1403X	RESISTOR, 1/16W, 140KΩ	1
R 784	-	ERJ2RHD2002X	RESISTOR, 1/16W, 20KQ	1 1
R 790, 791	-	ERA3YKB154V	RESISTOR 1/16W 150KO	2
SW 1	-	K0D112B00071	SW	1
SW 2	-	ESD165225	SLIDE SWITCH	1
SW 3.4		EVOPLDA15	SWITCH	2
SW 5	-	K07700000617	SW	4
T1	-	G5BYC0000015	TRANCE	1
X 1	-	H0 1143500059	OSCILLATOR 14 318MHz	
x 2	-	H0 1327200115	OSCILLATOR 22 769KH+	
X2	-	H0 1300500018	CRYSTAL OSCILLATOR	
× 5	-	103300300018	OSCILLATOR 25MH-	1
X4 X5	-	H0J250500067	OSCILLATOR, 25MHZ	
X 5	-	H2D800400015	OSCILLATOR, 8MHZ	1
ZA 1, 2	-	DRHMUTTSZA	SCREW	2
ZA 3,4		K1YGZ2000060	SPACER	2
SUB PCB	_	LOED LOU IT I'M	Transferration and the second second	
C 903	1	F1G1C104A042	CAPACITOR, 16V, 0.1µF	1
CN 900		K1MN20BA0070	CONNECTOR	1
D 901		B3ABB0000196	DIODE	1
IC 901	123	C0JBAA000345	IC, LOGIC	1
Q 901		B1GBCFJN0037	TRANSISTOR	1
R 903	1	ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	
SW 900, 901		K0L1BA000115	SW	2
SW 902		K0D113B00081	SW	112 111
BLUETOOTH PCB				
C 1201, 1202		EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	2
C 1203, 1206, 1213	1	F1G1C104A042	CAPACITOR, 16V, 0.1µF	3
C 1204, 1210		F1G1E103A062	CAPACITOR, 25V, 0.01µF	2
C 1205		F1J0J106A016	CAPACITOR, 6.3V, 10µF	1
C 1207, 1209		F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 1212	1	F1G1H6R0A544	CAPACITOR, 50V, 6pF	1
C 1214	1	ECJ0EC1H0R5C	CAPACITOR, 50V, 0.5pF	1
CN 1201	P L H	K1MN24BA0070	CONNECTOR	1
CN 1202, 1203	1	K1FY104BA024	CONNECTOR, USB	2
D 1201, 1202	1	B0KB00000044	DIODE	2
IC 1201	3 - 1	C0JBAZ002422	IC, FET SWITCH	1
IC 1202	0	N5HZZ0000040	BLUETOOTH MODULE	1
IC 1203		C0EBE0000460	IC	1
KJ 1201	1000	K1QZA1AE0001	CONNECTOR	1
L 1201, 1202	1	J0MAB0000116	INDUCTOR	2
L 1203, 1204, 1205, 1206	1.5	J0JHC0000074	INDUCTOR	4
L 1207	1.1.1	J0JJC0000015	INDUCTOR	1
L 1209	-	J0MAB0000200	INDUCTOR	1
L 1210		G1C10NJA0024	INDUCTOR	1
Q 1201	-	B1GBCENN0042	TRANSISTOR	1
Q 1202		B1DHDC000028	TRANSISTOR	1
R 1201 1202	-	ER IZGE HOAY	RESISTOR 1/16W 100KO	2
11 1601, 1692	pro terrete	- WE GEOTOTA		

R 1203	ERJ2GE0R00X	RESISTOR, 1/16W, 00	1
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