ORDER NO. CPD0807206CE

# Service Manual

Simplified

# Notebook Computer

Model No.

# CF-52EKMxDxM



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

# Model No. CF-52EKM <u>1</u> D <u>2</u> M

- 1: Option Slot
  - B: No Option
  - H: Smart Card Reader, Finger Print Reader Configurated
- 2: Operation System
  - A: Microsoft® Windows® XP Professional SP2 Downgrade
  - J: Microsoft® Windows® VISTA Business SP1

### 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  $\widehat{\heartsuit}$  or the BSI mark  $\widehat{\heartsuit}$  on the body of the fuse.

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

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

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

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

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

If in any doubt please consult a qualified electrician. Warning: THIS APPLIANCE MUST BE EARTHED.

#### Important

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

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

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

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

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

#### Danger:

The serviceman should not remove the cover of drive unit and should not service because the drive unit is a 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:

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

SAVE THESE INSTRUCTIONS

# LITHIUM BATTERY

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

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

### LITHIUM BATTERY 🛆 –

#### CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Dispose of used batteries according to the manufacturer's instructions.

# LITHIUMBATTERIES 🛆 -

#### Vorsicht!

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

# – PILE AU LITHIUM 🛆 –

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

# **Precautions (Battery Pack)**

#### Do Not Use with Any Other Product

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

# Do Not Charge the Battery Using Methods Other Than Those Specified

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

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

Generation of heat, ignition or rupture may result.

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

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

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

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

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

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

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

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



A lithium ion battery that is recyclable powers the product you have purchased.

Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion.

Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.
- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% (when Economy Mode (ECO) is enabled: 75%) of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

#### NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 55 °C {32 °F to 131

°F}). ( $\rightarrow$  P Reference Manual "Battery Power") Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or below.)

- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run by using a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

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# 1. Specifications

This page provides the specifications for the basic model. The model number is different according to the unit configuration.

To check the model number:

Check the bottom of the computer or the box the computer came in at the time of purchase.

To check CPU speed, memory size and the hard disk drive (HDD) size:

Run the Setup Utility ( P Reference Manual "Setup Utility") and select [Information] menu.

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

#### **Main Specifications**

Model No.		CF-52EKMBDAM / CF-52FKMBZAM / CF-52EKMHDAM / CF-52EKMHDJM	CF-52GCMBXAM / CF-52GCMBEAM / CF-52HCMBZAM / CF-52GCMHEAM / CF-52GCMHEJM / CF-52GCMBVAM	
CPU/Secondary cache memory		Intel <sup>®</sup> Core <sup>™</sup> 2 Duo Processor Penryn P8600 (2.4 GHz, 3 MB <sup>*1</sup> L2 cache, 1066 MHz FSB)	Intel <sup>®</sup> Core™ 2 Duo Processor Penryn P8400 (2.26 GHz, 3 MB <sup>*1</sup> L2 cache, 1066 MHz FSB)	
Chip Set		Mobile Intel <sup>®</sup> PM45 Express Chip set	Mobile Intel <sup>®</sup> GM45 Express Chip set	
Main Memory <sup>*2</sup>		1 GB <sup>*1</sup> , DDR2 SDRAM (4 GB <sup>*1</sup> Max.)		
Video Memory		Windows Vista         512 MB <sup>*1</sup> dedicated           (1903 MB <sup>*1</sup> Max.) <sup>*3</sup> Windows XP         512 MB <sup>*1</sup> dedicated           (1024 MB <sup>*1</sup> Max.) <sup>*3</sup> *3	Windows Vista UMA (1423 MB <sup>*1</sup> Max. / 358 MB <sup>*1</sup> Max. with expanded memory) <sup>*3</sup> Windows XP UMA (1024 MB <sup>*1</sup> Max.) <sup>*3</sup>	
Hard Disk Drive		160 GB <sup>*4</sup> (Serial ATA)		
		Windows Vista : Approx. 2 GB <sup>*4</sup> is used as a partition with recovery tools. (Users cannot use this partition.)		
CD/DVD drive		DVD MULTI Drive built-in, Buffer underrun error	prevention function: Supported	
Continuous Data Transfer Speed <sup>*5*6</sup>	Reading <sup>*7</sup>	DVD-RAM <sup>*8</sup> : 24X (4.7 GB <sup>*4</sup> ) DVD-R <sup>*9</sup> : 8X (Max.) DVD-R DL: 4X (Max.) DVD-RW: 4X (Max.) DVD-ROM: 8X (Max.) CD-ROM: 24X (Max.) CD-R: 24X (Max.) CD-RW: 24X (Max.) +R: 8X (Max.) +R DL: 4X (Max.) +RW: 4X (Max.)		
	Writing <sup>*10</sup>	DVD-RAM <sup>*8</sup> : 2X/3X/3-5X (4.7 GB <sup>*4</sup> ) DVD-R: 1X/2X/2-4X/2-6X/2-8X DVD-R DL: 2X/2-4X DVD-RW: 1X/2X/2-4X/2-6X +R: 2.4X/2.4-4X/2.4-6X/2.4-8X +R DL: 2.4X/2.4-4X +RW: 2.4X/2.4-4X High-Speed +RW: 3.3X/3.3-6X/3.3-8X CD-R: 4X/10X/10-16X/10-20X/10-24X CD-RW: 4X High-Speed CD-RW: 4X/10X Ultra-Speed CD-RW: 10X/10-16X/10-20X/10-24X		
Supported Discs/ Format	Reading	$ \begin{array}{c} DVD\text{-}ROM \mbox{ (Single Layer, Dual Layer) } DVD\text{-}Video \mbox{ DVD}\text{-}R^{*9} \mbox{ (1.4 GB, 3.95 GB, 4.7 GB)}^{*4} \\ DVD\text{-}R \mbox{ DL} \mbox{ (8.5 GB)}^{*4} \mbox{ DVD}\text{-}RW \mbox{ (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)}^{*4} \mbox{ DVD}\text{-}RAM^{*} \\ \mbox{ (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)}^{*4} \mbox{ +}R \mbox{ (4.7 GB)}^{*4} \mbox{ +}R \mbox{ DL} \mbox{ (8.5 GB)}^{*4} \mbox{ +}RW \mbox{ (4.7 GB)}^{*4} \mbox{ CD}\text{-} \\ \mbox{ Audio} \mbox{ CD}\text{-}ROM \mbox{ (XA compatible) } \mbox{ CD}\text{-}R \mbox{ Photo CD} \mbox{ (multiple session compatible) } \mbox{ Video CI} \\ \mbox{ CD}\text{-}EXTRA \mbox{ CD}\text{-}RW \mbox{ CD}\text{-}TEXT \end{array} $		
Writing		$ \begin{array}{c} DVD\text{-}RAM^{*8} \left(1.4 \text{ GB}, 2.8 \text{ GB}, 4.7 \text{ GB}, 9.4 \text{ GB}\right)^{*4}  DVD\text{-}R \left(1.4 \text{ GB}, 4.7 \text{ GB} \text{ for General}\right)^{*4} \\ DVD\text{-}R \text{ DL} \left(8.5 \text{ GB}\right)^{*4}  DVD\text{-}RW \left(\text{Ver.1.1/1.2 } 1.4 \text{ GB}, 2.8 \text{ GB}, 4.7 \text{ GB}, 9.4 \text{ GB}\right)^{*4}  \text{+}R \left(4.7 \text{ GB}\right)^{*4}  \text{+}R \text{ DL} \left(8.5 \text{ GB}\right)^{*4}  \text{+}RW \left(4.7 \text{ GB}\right)^{*4}  CD\text{-}R  CD\text{-}RW \end{array} $		
Display Method         15.4 WUXGA type (TFT) (1920 × 1200 dots)         15.4 WXGA type (TFT) (1280 × 8		15.4 WXGA type (TFT) (1280 × 800 dots)		
Internal LCD		65,536/16,777,216 colors (800 × 600 dots / 1024 × 768 dots / 1280 × 768 dots / 1440 × 900 dots / 1600 × 1200 dots / 1680 × 1050 dots / 1920 × 1080 dots / 1920 × 1200 dots) <sup>*11</sup>	65,536/16,777,216 colors (800 × 600 dots / 1024 × 768 dots / 1280 × 768 dots / 1280 × 800 dots) <sup>*11</sup>	
External Display <sup>*12</sup>		65,536 / 16,777,216 colors (800 × 600 dots / 1024 × 768 dots / 1280 × 768 dots / 1600 × 1200 dots / 1920 × 1080 dots / 1920 × 1200 dots)		
Wireless LAN <sup>*13</sup>		Intel <sup>®</sup> WiFi Link 5100		
Bluetooth <sup>*14</sup>				
LAN		IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T		
Modem		Data: 56 kbps (V.92) FAX: 14.4 kbps		

#### Main Specifications

Model No.			CF-52EKMBDAM / CF-52FKMBZAM / CF-52EKMHDAM / CF-52EKMHDJM	2FKMBZAM / CF-52GCMBXAM / CF-52GCMBEAM / 2EKMHDJM CF-52HCMBZAM / CF-52GCMHEAM / CF-52GCMHEJM / CF-52GCMBVAM	
Sound			WAVE and MIDI playback, Intel <sup>®</sup> High Definition	n Audio subsystem support	
Security	Chip		TPM (TCG V1.2 compliant) <sup>*15</sup>		
Card Slots	PC Car	d Slot	x 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA	x 2, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA	
	Expres	sCard Slot	x 1, ExpressCard/34 or ExpressCard/54	—	
	SD Me Slot <sup>*16</sup>	mory Card	x 1		
	Smart (	Card Slot <sup>*17</sup>	x 1		
RAM Mo	dule Slo	t	x 2, DDR2 SDRAM, 200-pin, 1.8 V, SO-DIMM,	PC2-6400 Compliant	
Interface			USB Ports x 4 (4-pin, USB 2.0) <sup>*18</sup> / Serial Port (Dsub 9-pin male) / Modem Port (RJ-11) / LAN Port (RJ-45) / External Display Port (Mini Dsub 15-pin female) / IEEE1394a Interface Connector (4-pin) / Microphone Jack (Miniature jack, 3.5 DIA) / Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 $\Omega$ , Output Power 4 mW × 2, Stereo) / Expansion Bus Connector (Dedicated 100- pin female),		
Keyboard / Pointing Device 87		ing Device	87 keys / Touch Pad		
Fingerprint Reader <sup>*19</sup>		er <sup>*19</sup>	Array Size : 248 x 4 pixels, Image Size : 248 x 360 pixels, Image Resolution : 508 DPI		
Power S	wer Supply AC adaptor or Battery pack				
AC Adaptor <sup>*20</sup>			IInput: 100 V - 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 8 A		
Battery Pack Li-ion 11.1 V, 7.8 Ah					
Operati	ing Time	*21	Approx. 4 hours Approx. 7 hours		
Chargir	ng Time <sup>*</sup>	22	Approx. 4 hours		
Power Consumption*23Approx. 60 W*24/ Approx. 100 W (maximum when recharging in the ON state)Approx. 45 W*24/ Approx. 100 W (maximum when recharging in the ON state)		Approx. 45 W <sup>*24</sup> / Approx. 100 W (maximum when recharging in the ON state)			
Physical Dimensions (W $\times$ D $\times$ H) (including the carrying handle)		ons (W × D × rying handle)	355.7 mm × 286.3 mm × 50.7 - 51.9 mm {14.0" × 11.3" × 2.0 "}		
Weight (including the carrying handle)		rying handle)	Approx. 3.4 kg {Approx. 7.5 lb.}		
Envi-	Oper-	Temperature	5 °C to 35 °C {5 °F to 95 °F}		
ronment	ronment ating Humid		30% to 80% RH (No condensation)		
	Stor-	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}		
age Humi		Humidity	30% to 90% RH (No condensation)		

### Software

Model No.	CF-52EKMHDJM / CF-52GCMHEJM	CF-52EKMBDAM / CF-52FKMBZAM / CF-52EKMHDAM / CF-52GCMBXAM / CF-52GCMBEAM / CF-52HCMHZAM / CF-52GCMHEAM / CF-52GCMBVAM
OS*25	Windows Vista <sup>®</sup> Business Service Pack 1	Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File System)
Pre-installed Software	Adobe Reader, PC Information Viewer, Loupe Utility, B's Recorder GOLD9 BASIC <sup>*26</sup> , B's CLiP 7 <sup>*26</sup> , Intel <sup>®</sup> PROSet / Wireless Software <sup>*13</sup> , Bluetooth <sup>™</sup> Stack for Windows <sup>®</sup> by TOSHIBA <sup>*14</sup> , Wireless Switch Utility, Wireless Connection Disable Utility <sup>*26</sup> , Hotkey Settings, Battery Recali- bration Utility, Infineon TPM Professional Package <sup>*26</sup> , Protector Suite QL <sup>*19 *26</sup> , Setup Utility, Hard Disk Data Erase Utility <sup>*27</sup> , PC-Diagnostic Utility	
	WinDVD™ 8 (OEM Version)	MediaPlayer10, Icon Enlarger, WinDVD™ 5 (OEM Version)

#### Wireless LAN

Data Transfer Rates	IEEE802.11a : 54/48/36/24/18/12/9/6 Mbps (automatically switched) <sup>*28</sup> IEEE802.11b : 11/5.5/2/1 Mbps (automatically switched) <sup>*28</sup> IEEE802.11g : 54/48/36/24/18/12/9/6 Mbps (automatically switched) <sup>*28</sup> IEEE802.11n : (HT20) 144.4/130/117/115.6/104/86.7/78/65/58.5/57.8/52/43.3/39/28.926/19.5/ 14.4/13/6.5 Mbps (automatically switched) <sup>*28</sup> (HT40) 300/270/243/240/216/180/162/130/120/117/108/104/90/81/78/60/54/52/ 39/30/27/26/13 Mbps (automatically switched) <sup>*28</sup>
Standards Supported	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n(Draft 2.0)
Transmission Method	OFDM system, DS-SS system
Wireless Channels Used	IEEE802.11a : Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/ 157/161/165 IEEE802.11b/IEEE802.11g : Channels 1 to 11 IEEE802.11n : Channels 1-11/36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/ 153/157/161/165
RF Frequency Band	IEEE802.11a : 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.58 GHz, 5.66 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz IEEE802.11b/IEEE802.11g : 2.412 GHz - 2.462 GHz IEEE802.11n : 2.412 GHz - 2.462 GHz, 5.15 GHz - 5.35 GHz, 5.5 GHz - 5.58 GHz, 5.66 GHz - 5.7 GHz, 5.745 GHz - 5.85 GHz

#### Bluetooth<sup>™</sup> <Only for model with Bluetooth>

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

<sup>\*1</sup> 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes

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

- \*3 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user. The size of Video memory is allotted depending on the operating system.
- <sup>\*4</sup> 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- <sup>\*5</sup> 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.
- \*6 Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-R DL, 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 disc, settings, and environment being used. Does not support writing to DVD-R DL/+R DL (dual layer discs) and Ultra-Speed CD-RW.
- \*7 If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.
- \*8 Only non-cartridge type or removable cartridge type can be used.
- <sup>\*9</sup> DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with discs recorded using Disc-at-Once recording.
- <sup>\*10</sup> Depending on the disc, the writing speed may become slower.
- \*11 A 16,777,216 color display is achieved by using the dithering function.
- \*12 Display may be impossible using some connected external displays.
- <sup>\*13</sup> Only for model with wireless LAN.
- <sup>\*14</sup> Only for model with Bluetooth.

\*15 For information on TPM, refer to the Installation Manual of "TrustedPlatform Module (TPM)" by the following procedure.

#### Windows Vista

Click [[]] (Start) and input "c:\util\drivers\tpm\README.pdf" in [Start Search] and press Enter.

#### Windows XP

Click [start] - [Run] and input "c:\util\drivers\tpm\README.pdf" and press Enter.

- \*16 This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC Memory Cards with a capacity of up to 8 GB. Operation on other SD equipment is not guaranteed.
- \*17 Only for model with Smart Card slot.
- <sup>\*18</sup> Does not guarantee operation of all USB-compatible peripherals.
- <sup>\*19</sup> Only for model with Fingerprint reader.
- \*<sup>20</sup> <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
- \*21 Measured at (LCD brightness : 60 cd/m<sup>2</sup> Varies depending on the usage conditions, or when an optional device is attached.
- <sup>\*22</sup> Varies depending on the usage conditions, CPU speed, etc.
- \*23 Approx. 0.9 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 Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the Product Recovery DVD-ROM provided by Panasonic.
- \*26 Must be installed before use.
- \*27 The Product Recovery DVD-ROM is required.
- \*28 These are speeds specified in IEEE802.11a+b+g+n standards. Actual speeds may differ.

# 2. Names and Functions of Parts



#### A : Speaker

D Reference Manual "Key Combinations"

#### B : Multimedia pocket

D Reference Manual "Multimedia Pocket"

#### C: SD Memory Card slot

Deference Manual "SD Memory Card"

D: Battery pack<sup>\*1</sup>

Specified Battery pack: CF-VZSU29ASU

#### E : Headphone jack

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

#### F: 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:

#### Windows Vista

Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] -[Properties], and then add a check mark for [No Filtering] in [Microphone Enhancements].

#### Windows XP

Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [No Filtering] in [Microphone Enhancements].

When using a monaural microphone with a 2-terminal plug: Windows Vista

Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] -[Properties], and then add a check mark for [Voice Recording] in [Microphone Enhancements]. Otherwise, only audio on the left track will be recorded.

#### Windows XP

Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [Voice Recording] in [Microphone Enhancements]. Otherwise, only audio on the left track will be recorded.

#### G : Wireless LAN/Wireless WAN antenna

<Only for model with wireless LAN/wireless WAN>
Parameter Reference Manual "Wireless LAN"

#### H:LCD

- I: LED indicator
  - A Caps lock
  - 1 Numeric key (NumLk)
  - Scroll lock (ScrLk)
  - M Multimedia pocket device status
    - Example: Content of the second second
  - Hard disk drive status
  - Battery status
    - Reference Manual "Battery Power"
  - Power status (Off: Power off/Hibernation, Green: Power on, Blink-

ing green: **Windows Vista** Sleep/ **Windows XP** Standby, Blinking green rapidly: Cannot power on or resume due to low temperature.)

- SD Memory Card status
   (Blinking: During access or a password is requested)
   C Reference Manual "SD Memory Card"
- ✓ Wireless ready

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

Wireless Communication" "Wireless LAN" "Bluetooth"

- Wireless WAN status
- J: Power switch
- K : Function key

E Reference Manual "Key Combinations"

- L : Bluetooth antenna
- <Only for model with Bluetooth>

Deference Manual "Bluetooth"

- M : Keyboard
- N : Touch pad
- O : Carrying handle
- P : Wireless switch

C Reference Manual "Disabling/Enabling Wireless Communication" "Wireless LAN" "Bluetooth"

The battery pack is a consumable item. If you continue to use a battery pack after it has degraded, problems may occur. Be sure to replace the degraded battery pack with a new battery pack of the specified type.

#### **Right side**



#### A : Hard disk drive

- D Reference Manual "Hard Disk Drive"
- **B** : Smart Card slot

<Only for model with Smart Card slot>

D Reference Manual "Smart Card"

#### C : ExpressCard slot

D Reference Manual "PC Card / ExpressCard" D:PC Card slot

D Reference Manual "PC Card / ExpressCard"

#### E: IEEE 1394 interface connector

Reference Manual "IEEE 1394 Devices"

#### F: USB port

Devices" Reference Manual "USB Devices"

#### G : DC-IN jack

H : External display port

D Reference Manual "External Display"

#### I: Security lock

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

#### J: Ventilation hole

#### K: SIM Card slot

<For Wireless WAN model> When the SIM Card is necessary, remove the screw of the cover and then remove the cover to insert/remove the SIM Card.

#### L: Modem port

D Reference Manual "Modem"

#### M: LAN port

D Reference Manual "LAN"

#### N : Serial port

- O: Expansion bus connector
  - Distance Manual "Port Replicator"
- P: RAM module slot

D Reference Manual "RAM Module"

Q : Hard disk drive latch

C Reference Manual "Hard Disk Drive"

- R : Multimedia pocket release button
  - D Reference Manual "Multimedia Pocket"

#### S: Battery latch

#### NOTE

When you open the covers (Example: USB port cover)

of ExpressCard slot, PC card slot, IEEE 1394 interface connector, USB port, External display port, Modem port, LAN port and Serial port, push down and pull the covers.

This computer contains a magnet and magnetic products at the locations circled in the illustration at right. Avoid leaving metallic object or magnetic media in contact with these areas.





# **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.

• Start .....Test begins automatically when power switch is set to ON.

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

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

### Error Diagnosis by Checking Beep Signal Sound

The beep sound is as follows:



(Length of bar shows length of sound.)

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

#### • Table of errors classified by beep sounds

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

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

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

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

#### 0200 Failure Fixed Disk

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

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset : nnnn

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

#### 0231 Shadow RAM Failed at offset : nnnn

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

#### 0232 Extended RAM Failed at offset : nnnn

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

#### 0250 System battery is dead - Replace and run SETUP

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

#### \*0251 System CMOS checksum bad - Default configuration used

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

#### 0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

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

#### \*0280 Previous boot incomplete - Default configuration used

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

#### 0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

#### 02D0 System cache error - Cache disabled

Contact Panasonic Technical Support.

#### 02F0: CPU ID:

CPU socket number for Multi-Processor error.

#### 02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

#### 02F5: DMA Test Failed

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

#### 02F6: Software NMI Failed

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

#### 02F7: Fail - Safe Timer NMI Failed

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

#### device address Conflict

Address conflict for specified device.

#### Allocation Error for: device

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

#### Failing Bits : nnnn

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

#### **Invalid System Configuration Data**

Problem with NVRAM (CMOS) data.

#### I/O device IRQ conflict

I/O device IRQ conflict error.

#### **Operating System not found**

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

#### Parity Check 1 nnnn

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

#### Parity Check 2 nnnn

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

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

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

# 7 Self Diagnosis Test

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

Notes To skip BIOS password

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

### 1. Beginning of self-diagnosis test

#### 1-1. Setting of content of setup

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

Attention

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

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

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

#### 1-2. When you execute an automatic test

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

Attention

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

#### 1-3. When you execute the enhancing test

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



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

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

### 2. Operation of PC-Diagnostic Utility

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

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

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



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



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



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

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

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

#### 2-1. Selection of tested device

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

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



Start the standard test



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

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

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

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

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

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

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

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

# 3. Test Item and Division of trouble

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

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

#### Note:

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

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

### 9.1. Disassembly Instructions

### 9.1.1. Disassembly Flowchart

The chart below shows the various parts which should be removed in order to remove the parts that are to be replaced. Parts can be replaced efficiently be following the disassembly steps in the chart.



### 9.1.2. Preparation

Before disassembling, be sure to make the following preparations.

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

#### Attention:

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

# 9.1.3. Removing the Battery Pack, HDD Mounting Kit and DVD Multi Drive

#### 9.1.3.1. Battery Pack

1. Remove the Cover Battery.



2. Pull out the Battery Pack with sliding the Battery Latch Knob.



### 9.1.3.2. HDD Mounting Kit

1. Pull out the HDD Mounting Kit with sliding the Lock Knob (HDD).

### 9.1.3.3. DVD Multi Drive

1. Pull out the DVD Multi Drive with pushing the MP Latch.

### 9.1.4. Removing the HDD

- 1. Remove the six Hooks, and remove the HDD Case Upper , HDD case and HDD Insulation Sheet.
- 2. Remove the HDD from the HDD Dumper.
- 3. Disconnect the HDD FPC Ass'y from the HDD.



#### 9.1.5. Removing the Tilt Panl Ass'y

1. Turn the Cover down and pull the Tilt Panel in the direction of arrows.



2. Remove the five Screws <N202>, and remove the Tilt Panel Ass'y.



Screws <N202> : DRSB2+4FKLT

#### 9.1.6. Removing the DIMM Memory Card

1. Remove the Screw <N10>, and remove the DIMM Cover.



2. Open the right and left Hooks of the DIMM Memory Card outward, and remove the DIMM Memory Card.



Screws <N10>: DRSB2+3FKLT

- 9.1.7. Removing the ROBSON Cover, Wireless LAN Module and BIOS PCB
  - 1. Remove the Screw <N3>, and remove the ROBSON Cover.



#### 9.1.7.1. Wireless LAN Module

- 1. Remove the two Screws <N2> and two Cables(Gray and Blue).
- 2. Pull out the Wireless LAN Module in the direction of arrows.

#### 9.1.7.2. BIOS PCB

1. Remove the two Screws <N2>, and remove the BIOS PCB.

Screws <N2> : DFHE5122YA

Screws <N3> : DRHM0065ZA

#### 9.1.8. Removing the Display unit

1. Remove the six Screws <N2>, and turn over the SW LED MDC PCB.



SW LED MDC PCB

2. Disconnect the two Cables from the Connectors (CN5 and CN35).



3. Remove the Speaker Holder L and four Cables (black,

white, blue and grey).

Remove the two Screws <N2>, and BIOS HIGH PCB.



Cable (white) BIOS HIGH PCB

4. Remove the four Screws <N4>, and remove the Display unit.



Screws <N2> : DFHE5122YA Screws <N4> : DRHM0093ZA

# 9.1.9. Removing the LCD unit, Inverter Ass'y and ANTENNA PWB L,R

- 1. Remove the two LCD Rubbers and five LCD Sheets.
- 2. Remove the five Screws <N4> and two Screws <N15>.
- 3. Release the twenty-one Hooks fixing the LCD Front to the LCD unit, remove the LCD Front.

#### LCD LCD screw <N4> rubber sheet LCD screw sheet :N15 <N15> LCD - rubber <N4 <N4> <N4> LCD screw sheet <N4 LCD front Hooks Hooks Hooks Hooks Hooks Hooks

- 4. Remove the Screw <N12> and Tape, and remove the LCD unit.
- 5. Disconnect the two Cables, and remove the Inverter Ass'y.
- 6. Remove the eleven Tapes and two Screws <N2>, and remove the ANTENNA PWB L, R.



Screws <N2> : DFHE5122YA Screws <N4> : DRHM0093ZA Screws <N12> : DXSB2+4FNLT Screws <N15> : XQN17+BJ6FJ

### 9.1.10. Removing the Handle Ass'y

- 1. Remove the two Handle Sheets and two Screws <K172>, remove the Handle Ass'y.
- 2. Remove the two Screws <K92-5>, and disassemble the Handle Ass'y (Grip Upper, Grip Lower, Handle Base L, Handle Base R, Handle Ring and Handle Pom).



Screws <K92-5>: DRSB3+8FKLT Screws <K172>: DRYN4+J12KLT

#### 9.1.11. Removing the Modem

- 1. Disconnect the Cable from the Connecor(CN4200).
- 2. Remove the two Screws <N2>, and remove the Modem.



SW LED MDC PCB

3. Remove the Tape1, Conductive tape-modem and Tape2, disconnect the Cable from Modem



Screws <N2> : DFHE5122YA

# 9.1.12. Removing the SW LED MDC PCB and Speakers

### 9.1.12.1. SW LED MDC PCB

1. Disconnect the Cables from the Connectors(CN4202 and CN4203), and remove SW LED MDC PCB.



### 9.1.12.2. Speaker R

1. Remove the Speaker Holder R, and remove the Speaker R

# 9.1.12.3. Speaker L

1. Remove the Tape, and remove the Speaker L.

### 9.1.13. Removing the Keyboard

- 1. Remove the two Tapes.
- 2. Lift the upper part of the Keyboard and draw it backward, and then turn the Keyboard over forward.



#### Note:

Take extreme care when peeling off the tape as it is strongly sticked.

- 3. Remove the four Screws <N2>, and remove the Keyboard Lid Plate.
- 4. Disconnect the two FPC from the two Connectors (KBD FPC).



5. Remove the Keyboard.

Screws <N2> : DFHE5122YA

#### 9.1.14. Removing the Top Cover

- 1. Remove the Gasket.
- 2. Remove the Screws <N2>, <N4>, <N9> and ten Screws <N14>



- 3. Turn the unit to the face, remove the Screw <N12> and five Screws <N8>.
- 4. Remove the WP Sheet and Tape, and remove the Screw <N12>.
- 5. Remove the two Screw Sheets.

Remove the two Screws <N9>, and remove the Cover BT.

Remove the Screw <N2> and disconnect the Cable from the BT UNIT PCB, and remove it.

 Disconnect the FFC and KBD FPC from the Connectors(CN23 and CN22), and lift up the Top Cover Ass'y and remove it.



Screws <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screws <N8> : DRHM5054XAT Screws <N9> : DRHM5104ZAT Screws <N12> : DXSB2+4FNLT Screws <N14> : XTB26+10GJKT

# 9.1.15. Removing the Pad and TOUCH PAD PCB

- 1. Remove the six Screws <N12>.
- 2. Remove the Top Relay Plate and Pad Holder.
- 3. Remove the Pad and TOUCH PAD PCB.



Screws <N12> : DXSB2+4FNLT

### 9.1.16. Removing the SD PCB

- 1. Remove the two Screws <N12>.
- 2. Disconnect the FFC from the Connector(CN4300), and remove the SD PCB.



Screws <N12> : DXSB2+4FNLT

#### 9.1.17. Removing the WWAN PCB

- 1. Disconnect the Cables(Gray and Blue) from the WWAN PCB.
- 2. Remove the two Screws <N2> and the Screw <N9>.
- 3. Disconnect the FPC from the Connector(CN7002), and remove the SD PCB.



Screws <N2> : DFHE5122YA Screw <N9> : DRHM5104ZAT

### 9.1.18. Removing the AUDIO PCB

- 1. Remove the two Screws <N4>.
- 2. Disconnect the Cable from the Connector(CN3000), and remove the AUDIO PCB.



Screw <N4> : DRHM0093ZA

# 9.1.19. Removing the PWR BATTERY LED PCB

1. Remove the PWR BATTERY LED PCB, and disconnect the Cable from the Connector(CN4400).



#### 9.1.20. Removing the KBD Earth Plate

1. Remove the Tape in the direction of arrow.



2. Remove the four Screws <N4> and two Screws <N13>, and remove the KBD Earth Plate.



Screw <N4> : DRHM0093ZA Screw <N13> : DXYN2+F12FNL

### 9.1.21. Removing the Hinge Support R

- 1. Peel off the Tape and remove the Screw <N4>.
- 2. Disconnect the Cable from the Connector (CN7).
- 3. Turn the Cover PC Card down in the direction of arrow, and remove the Hinge Support R.



Screw <N4> : DRHM0093ZA

#### 9.1.22. Removing the Fan Ass'y

- 1. Disconnect the Cable from the Connector(CN18).
- 2. Remove the two Screws <N4>, and remove the Fan Ass'y.
- 3. Remove the three Screws <N12>, and remove the Fan.
- 4. Remove the three Screws <N2>, and remove the Fan Case Plate.



Screw <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screw <N12> : DXSB2+4FNLT

# 9.1.23. Removing the Hinge Support L and MP Hold Plate

- 1. Peel off the three Tapes and remove the two Cables(Gray and Blue).
- 2. Remove the six Screws <N4>, remove the Hinge Support L and MP Hold Plate.



Screw <N4> : DRHM0093ZA

# 9.1.24. Removing the Battery Connector Ass'y

- 1. Remove the two Screws <N2> and <N4>, and remove the Battery Connector Ass'y.
- 2. Remove the two Screws <N6>, and remove the Batt FPC Plate.
- 3. Remove the two Screws <N5>, and remove the Batt Con Holder from the FPC Batt.



Screw <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA

Screw <N5> : DRHM0112ZA Screw <N6> : DRHM0115ZA

# 9.1.25. Removing the SC RELAY PCB and HDD Hold Plate

- 1. Disconnect the FFC from the Connector(CN6503).
- 2. Remove the two Screws <N2>, and remove the SC RELAY PCB.
- 3. Remove the two Screws <N4>, and remove the HDD Hold Plate.



Screw <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA

### 9.1.26. Removing the Heat Sink Ass'y

- 1. Remove the Fan Duct.
- 2. Remove the four Screws <K138>, and remove the Heat Sink Ass'y.



Screw <K138> : DRHM0119ZAT

#### 9.1.27. Removing the SERIAL PCB

- 1. Remove the two Screws <N1> and Hex Spacer.
- 2. Remove the SERIAL PCB.



Screw <N1> : DFHE5035ZB

#### 9.1.28. Removing the MAIN HIGH PCB

- 1. Remove the two Screws <N1>, four Screws <N4> and two Screws <N13>.
- 2. Disconnect the Battery Cable from the Connector(CN4).
- 3. Remove the MAIN HIGH PCB.



Screw <N1> : DFHE5035ZB Screw <N4> : DRHM0093ZA Screw <N13> : DXYN2+F12FNL

## 9.2. Reassembly Instructions

### 9.2.1. Attention when CF-52 series is repaired

• Please execute writing BIOS ID when you exchange the Main Board.

• You cannot reuse the Conductive Clothes and the heat dissipating parts such as Sheet and Rubber. Use new parts.

### 9.2.2. Setting the MAIN HIGH PCB

#### Note:

After replacing the Main Board, rewrite the BIOS ID.

- 1. Set the MAIN HIGH PCB to the computer.
- 2. Fix the MAIN HIGH PCB using the two Screws <N1>. No.1, No.2
- 3. Fix the MAIN HIGH PCB using the two Screws <N4>. No.3 to No.6  $\,$
- 4. Fix the MAIN HIGH PCB using the two Screws <N13>.
- 5. Connect the Battery Cable to the Connector (CN42).



Screw <N1> : DFHE5035ZB Screw <N4> : DRHM0093ZA Screw <N13> : DXYN2+F12FNL Screws <N9>: DFHE5025XA



INSULATION SHEET MCH
THERMAL SHEET



#### 9.2.3. Setting the SERIAL PCB

- 1. Set the SERIAL PCB to the computer.
- 2. Fix the SERIAL PCB using the two Screws <N1>. No1, No.2
- 3. Tighten the Hex Spacer to the SERIAL PCB. No.3



Screw <N1> : DFHE5035ZB

#### 9.2.4. Setting the Heat Sink Ass'y

- 1. Set the Fan Duct to the Heat Sink Ass'y.
- 2. Fix the Heat Sink Ass'y to the MAIN PCB using the four Screws <K138>. No.1 to No.4



Screw <K138> : DRHM0119ZAT

#### 9.2.5. Setting the Fan Ass'y

- 1. Fix the Fan Case Plate to the Fan Case using the three Screws <N2>.
- 2. Fix the Fan to the Fan Case using the three Screws <N12>.
- 3. Set the Fan Ass'y to the computer, and fix it using two Screws <N4>. No.1, No.2



Screw <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screw <N12> : DXSB2+4FNLT

#### How to assemble the Heat Sink Ass'y and Fan Ass'y.



## 9.2.6. Setting the SC RELAY PCB and HDD Hold Plate

- 1. Set the SC REALY PCB to the HDD Hold Plate, and fix it using two Screws <N2>. No.1, No.2
- 2. Fix the HDD Hold Plate to the MAIN HIGH PCB using the two Screws <N4>. No.3, No.4
- 3. Connect the FFC to the Connector(CN6503) and paste the Tape.



Screws <N2> : DFHE5122YA Screws <N4> : DRHM0093ZA



Detailed of portion E

## 9.2.7. Setting the Battery Connector Ass'y

- 1. Fix the Batt Con Holder to the FPC Batt using the two Screws <N5>.
- 2. Fix the Batt Con Holder to the Batt FPC Plate using the two Screws <N6>.
- 3. Fix the Batt FPC Plate to the computer using the two Screws <N4>. No.1, No.2
- 4. Connect the FPC Batt's connector to the connector(CN1000), and fix the FPC Batt to the MAIN HIGH PCB using the two Screws <N2>. No.1, No.2



Screw <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screw <N5> : DRHM0112ZA Screw <N6> : DRHM0115ZA

#### 9.2.8. Setting the Hinge Support L and MP Hold Plate

- 1. Set the Hinge Support L and MP Hold Plate to the computer.
- 2. Fix the Hinge Support L and MP Hold Plate using the six Screws <N4>. No.1 to No.6
- 3. Paste the Tapes.



Screw <N4> : DRHM0093ZA

#### 9.2.9. Setting the Hinge Cover R

- 1. Place the Cable through the rectangled hole of Hinge Support R and connect the Cable to the Connector (CN7).
- 2. Fix the Hinge Support R to the computer using the Screw <N4>.



#### 9.2.10. Setting the KBD Earth Plate

- 1. Set the KBD Earth Plate to the computer.
- 2. Fix the KBD Earth Plate using the four Screws <N4>. No.1 to No.4
- 3. Fix the KBD Earth Plate using the two Screws<N13>.



4. Paste the tape, and connect the FPC to the Connector(CN34).



Screw <N4> : DRHM0093ZA Screw <N13> : DXYN2+F12FNL

## 9.2.11. Setting the PWR BATTERY LED PCB

1. Connect the Cabel to the Connector(CN4400), and insert it to the computer.



## 9.2.12. Setting the AUDIO PCB

- 1. Connect the Cable to the Connector(CN3000).
- 2. Set the AUDIO PCB to the computer, and fix it using the two Screws <N4>. No.1, No.2



Screw <N4> : DRHM0093ZA

#### **■**Arranging the Cable and setting the WL button.



Place the SW at the OFF position

#### 9.2.13. Setting the WWAN PCB

- 1. Connect the FPC to the Connector(CN7002).
- 2. Set the WWAN PCB, and fix it using two Screws <N2> and the Screw <N9>. No.1 to No.3
- 3. Connect the Cable(Gray) to JK7002 and Cable(Blue) to JK7004.



Screw <N2> : DFHE5122YA Screw <N9> : DRHM5104ZAT

#### Arranging the Cables and Tapes



#### 9.2.14. Setting the SD PCB

- 1. Connect the FFC to the Connector(CN4300).
- 2. Set the SD PCB to the Top Cover, and fix it to using the two Screws <N12>. No.1, No.2



Screw <N12> : DXSB2+4FNLT

## 9.2.15. Setting the Pad and TOUCH PAD PCB

- 1. Paste the Pad and set the TOUCH PAD PCB to the Top Cover.
- 2. Set the Pad Holder and Top Relay Plate, and fix them using the six Screws <N12>. No.1 to No.6



Screw <N12> : DXSB2+4FNLT

#### 9.2.16. Setting the Top Cover

- 1. Connect the KBD FPC and FFC to the Connectors(CN22 and CN23), and place the Top Cover on the computer.
- 2. Fix the Top Cover using the five Screws <N8>. No.1 to No.5
- 3. Fix the Top Cover using the Screw <N12>.
- 4. Fix the BT UNIT PCB to the Top Cover using the Screw <N2> and connect the Cable to the connector.



- 5. Fix the Top Cover using the Screw <N2>, and paste the Tape and WP Sheet on it.
- 6. Fix the Cover BT to the Top Cover using the two Screws <N9> No.1, No.2, and paste the Screw Sheet on the Screws.
- 7. Fix the Bottom Case to the Top Cover using the Screw <N2>, <N4> and ten Screws <N14>. No.1 to No.12
- 8. Fix the Bottom Case using the Screw <N9>.
- 9. Paste the Gasket on the Screw <N14>.



Screws <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screws <N8> : DRHM5054XAT Screws <N9> : DRHM5104ZAT Screws <N12> : DXSB2+4FNLT Screws <N14> : XTB26+10GJKT

#### 9.2.17. Setting the Keyboard

- 1. Connect the FPCs to the Connector on the KBD FPC.
- 2. Place the Keyboard Lid Plate on the Top Cover, and fix it using the four Screws <N2>. No.1 to No.4



3. Place the Keyboard on the Top Cover and paste the Tapes.



Screws <N2> : DFHE5122YA



## 9.2.18. Setting the Speakers

- 1. Place the Speakers on the computer.
- 2. Connect the Cables to the Connector(CN4202 and CN4203).
- 3. Paste the Tape on the Cable.
- 4. Attach the Speaker Holder R to the computer.



Note:

Do not attach the Speaker Holder L to the computer yet.

## 9.2.19. Setting the Modem

- 1. Connect the Cable to the Connector.
- 2. Paste the Tape2, Conductive Tape-Modem and Tape1.
- 3. Fix the Modem to the SW LED MDC PCB using the two Screws <N2>.



SW LED MDC PCB

Screws <N2> : DFHE5122YA





MDC MODULE



## 9.2.20. Setting the Handle Ass'y

- 1. Assemle the Handle Ass'y (Grip Upper, Grip Lower, Handle Base L, Handle Base R, Handle Ring and Handle Pom), and fix them using the two Screws <K92-5>.
- 2. Fix the Handle Base Ass'y to the computer using the two Screws <K172>.

Paste the Handle Sheet on the Screws <K172>.



Screws <K92-5>: DRSB3+8FKLT Screws <K172>: DRYN4+J12KLT

#### 9.2.21. Setting the LCD Unit, Inverter Ass'y and Antenna PWB L, R

- 1. Set the LCD Unit to the LCD Rear Cover
- 2. Fix the Inverter Ass'y using the Screw <N12>.
- 3. Fix the Anttena PWB L and R using the Screws <N2>.



4. Place the LCD Front on the LCD Rear Case.

Confirm that the twenty-one Hooks are fixed perfectly.

5. Fix the LCD Front using the five Screws <N4> and two Screws <N15>.

6. Paste the LCD Screw Sheet and LCD Rubber.



Screws <N2> : DFHE5122YA Screw <N4> : DRHM0093ZA Screws <N12> : DXSB2+4FNLT Screws <N15> : XQN17+BJ6FJ



The cloth conductor shall be stuck along the gasket.







#### 9.2.22. Setting the Display Unit, BIOS HIGH PCB and SW LED MDC PCB

1. Set the Display Unit to the computer, and fix it using the four Screws <N4>. No.1 to No.4



- 2. Connect the Cable(gray) to JK7001 and the Cable(blue) to JK7003 on WWAN PCB.
- 3. Set the BIOS HIGH PCB, and fix it using the two Screws<N2>. No.1, No.2
- 4. Connect the Cable(black) to JK6103 and the Cable(white) to JK6102 on BIOS HIGH PCB.



5. Connect the two Cables to the Connector(CN5 and CN35).



6. Fix the SW LED MDC PCB using the six Screws <N2>. No.1 to No.6



Screw<N2> : DFHE5122YA Screw <N4> : DRHM0093ZA

#### ■Arranging the Cables when assembling the LCD Unit.





Note: Use jig to insert and take out the cable



SP CABLE is under the plastics



SP CABLE is under of PWB.

## 9.2.23. Setting the Wireless LAN Module, BIOS PCB and ROBSON Cover

- 1. Put the Wireless LAN Module into the connector at an angle of fourty-five degrees.
- 2. Attach the BIOS PCB to the MAIN HIGH PCB, fix it using the two Screws <N2>.
- 3. Set the ROBSON Cover, and fix it using the Screw <N3>.



Screw <N2> : DFHE5122YA Screw <N3> : DRHM0065ZA

#### 9.2.24. Setting the DIMM Memory Card and DIMM Cover

- 1. Put the DIMM Memory Card into the connector.
- 2. Close the right and left Hooks, and paste the Tape.



3. Set the DIMM Memory Card, and fix it using the Screw <N10>.



Screw <N10> : DRSB2+3FKLT

#### 9.2.25. Setting the Tilt Panel Ass'y

1. Set the Tilt Panel Ass'y to the computer, and fix it using the five Screws <N202>.



2. Open the Cover, push the Tilt Panel Ass'y into the computer until it clicks.



#### Screw <N202> : DRSB2+4FKLT Caution for when assembling the Tilt Panel Ass'y



## 9.2.26. Setting the HDD

- 1. Connect the HDD FPC Ass'y to the HDD.
- 2. Insert the HDD Ass'y into the HDD Damper.
- 3. Set the HDD Ass'y into the HDD Case Upper.
- 4. Attach the HDD Case into the HDD Case Upper Ass'y



## **10 Exploded View**







CF-52EKMHDxM (with Smart Card Reader and Finger Print Reader) only

#### Screw tightening torque





# **Replacement Parts List**

Note : Important Safety Notice

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

#### CF-52EKMxDxM

NRP: Non Reusable Parts

Main Block Unit         CB         MAIN HIGH         RTL         1           E1         DL3U11692ABA         PCB, MAIN HIGH         RTL         1           E2         DL3U31692ABA         PCB, SERIAL         RTL         1           E3         DL3U31692ABA         PCB, SERIAL         RTL         1           E4         DL3U31692ABA         PCB, SW LED         RTL         1           E6         DL3U51692ABA         PCB, SW LED         RTL         1           E7         DL3U71692ABA         PCB, SC RELAY         RTL         1           E9         DL3U81692ABA         PCB, BC RELAY         RTL         1           E10         DL3U91692ABA         PCB, BC RELAY         RTL         1           E11         DL3U91692ABA         PCB, BC RELAY         RTL         1           E16         DL3U91692ABA         PCB, BC RELAY         RTL         1           E16         DL3U91692ABA         PCB, BC RELAY         RTL         1           E16         DL3U91692AAA         PCB, BC RELAY         RTL         1           E16         DL3U9170ABA         PCB, ANTENNA PWB R         RTL         1           E16-1         DFJS10992A         WWAN ANTEN	REF. NO and ARE	A PART NO.	DESCRIPTION		Q'TY
E1         DL3U11992ABA         PCB, MAIN HIGH         RTL         1           E2         DL3U21992ABA         PCB, AUDIO         RTL         1           E3         DL3U31992ABA         PCB, SERIAL         RTL         1           E4         DL3U41992ABA         PCB, SW LED         RTL         1           E5         DL3U51992ABA         PCB, SW LED         RTL         1           E6         DL3U41992ABA         PCB, SC RELAY         RTL         1           E7         DL3U91992ABA         PCB, BVR BATTERY LED         RTL         1           E8         DL3U91992ABA         PCB, BVR BATTERY LED         RTL         1           E10         DL3U91992ABA         PCB, BVR BATTERY LED         RTL         1           E10         DL3U91992ABA         PCB, BUNT         RTL         1           E11         DL3U91992ABA         PCB, ANTENNA NPB R         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA CABLE R         1         1           E15-1         DFJS1097ZB         WLAN ANTENNA CABLE R         1         1           E16-1         DFJS1097ZM         WWAN ANTENNA CABLE R         1         1           E16-2         DFJS	Main Block Unit				
E2         DL3U21692ABA         PCB, SERIAL         RTL         1           E3         DL3U31692ABA         PCB, SERIAL         RTL         1           E4         DL3U31692ABA         PCB, SW LED         RTL         1           E5         DL3U51692ABA         PCB, SW LED         RTL         1           E6         DL3U51692ABA         PCB, SW LED         RTL         1           E7         DL3U71692ABA         PCB, SC RELAY         RTL         1           E9         DL3U91692ABA         PCB, SC RELAY         RTL         1           E10         DL3U91692ABA         PCB, BC BT UNIT         RTL         1           E11         DL3U9162AAA         PCB, BC BT UNIT         RTL         1           E15-1         DL3U9162AAA         PCB, BOS H         RTL         1           E16-1         DFJS10982B         WLAN ANTENNA CABLE R         1         1           E16-1         DFJS10972B         WLAN ANTENNA CABLE R         1         1           E16-2         DFJS10972B         WLAN ANTENNA CABLE L         1         1           E16-1         DFJS10972A         WWAN ANTENNA CABLE L         1         1           E16-2         DFJS10972B	E1	DL3U11692ABA	PCB, MAIN HIGH	RTL	1
E3         DL3U31692ABA         PCB. SERIAL         RTL         1           E4         DL3U41692ABA         PCB. TOUCH PAD         RTL         1           E5         DL3U51692ABA         PCB. SVLED         RTL         1           E6         DL3U51692ABA         PCB. SVLED         RTL         1           E7         DL3U51692ABA         PCB. SC RELAY         RTL         1           E9         DL3U51692ABA         PCB. SC RELAY         RTL         1           E10         DL3U41692ABA         PCB. SC RELAY         RTL         1           E10         DL3U41692ABA         PCB. BUNN         RTL         1           E11         DL3U91692ABA         PCB. BUNN         RTL         1           E15         DL3U11710ABA         PCB. ANTENNA PWB R         RTL         1           E15         DL3U21710ABA         PCB. ANTENNA CABLE R         1         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE R         1         1           E16-2         DFJS1097XA         WCAN ANTENNA CABLE L         1         1           E16-1         DFJS1097XA         WLAN ANTENNA CABLE L         1         1           E16-2         DFJS1097XA	E2	DL3U21692ABA	PCB, AUDIO	RTL	1
E4         DL3U41692ABA         PCB, TOUCH PAD         RTL         1           E5         DL3U51692ABA         PCB, SW LED         RTL         1           E6         DL3U51692ABA         PCB, SW LED         RTL         1           E7         DL3U71692ABA         PCB, SC RELAY         RTL         1           E8         DL3U81692ABA         PCB, SC RELAY         RTL         1           E10         DL3UA1692ABA         PCB, BIOS H         RTL         1           E11         DL3UP1622ABA         PCB, BIOS H         RTL         1           E16         DL3UA1692ABA         PCB, BIOS H         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA PWB R         RTL         1           E15-1         DFJS1092ZB         WLAN ANTENNA CABLE R         1         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16-2         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16         DL3U21710ABA         FCC, SC S         1         1           E17         NSZ00000162	E3	DL3U31692ABA	PCB, SERIAL	RTL	1
E5         DL3U61692ABA         PCB, SW LED         RTL         1           E6         DL3U61692ABA         PCB, SD         RTL         1           E7         DL3U71692ABA         PCB, PWR BATTERY LED         RTL         1           E8         DL3U91692ABA         PCB, SC RELAY         RTL         1           E9         DL3U91692ABA         PCB, SC RELAY         RTL         1           E10         DL3UA1692ABA         PCB, BIOS H         RTL         1           E11         DL3U11710ABA         PCB, BT UNIT         RTL         1           E15-2         DFJS1097A         WWAN ANTENNA CABLE R         1           E16         DL3U21710ABA         PCB, ANTENNA PWB L         RTL         1           E16-1         DFJS10972B         WLAN ANTENNA CABLE L         1         1           E16-2         DFJS10972B         WLAN ANTENNA CABLE L         1         1           E16         DL3U21710ABA         FCC, PAD         1         1           E16         DL3U21710ABA         FCC, C FAD         1         1           E16         DL3U21710ABA         FCC, SC FS         1         1           E17         NKZ200000162         1GB DR2-667 SO-DIMM <td>E4</td> <td>DL3U41692ABA</td> <td>PCB, TOUCH PAD</td> <td>RTL</td> <td>1</td>	E4	DL3U41692ABA	PCB, TOUCH PAD	RTL	1
E6         DL3U71692ABA         PCB, SD         RTL         1           E7         DL3U71692ABA         PCB, EWR BATTERY LED         RTL         1           E8         DL3U81692ABA         PCB, EC RELAY         RTL         1           E9         DL3U91692ABA         PCB, EC RELAY         RTL         1           E10         DL3UA1692ABA         PCB, BUOS H         RTL         1           E11         DL3UP1621AAA         PCB, BUNT         RTL         1           E15         DL3U11710ABA         PCB, CR         RTL         1           E15-1         DFJS1098ZB         WLAN ANTENNA CABLE R         1           E16         DL3U21710ABA         PCB, ANTENNA CABLE R         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E17         NSZ20000162         1GB DDR2-66 SO-DIMM         1           E18         DFJK9014YA         FFC, SC FS         1           E20         DFJS1097ZA         AUDIO LED SW CABLE         1           E21         DFJS1097ZA         AUDIO LED SW CABLE         1           E22         DFJS1097ZA         AUDIO LE	E5	DL3U51692ABA	PCB, SW LED	RTL	1
E7         DL3U71692ABA         PCB. PWR BATTERY LED         RTL         1           E8         DL3U81692ABA         PCB, SC RELAY         RTL         1           E9         DL3U91692ABA         PCB, BIOS H         RTL         1           E10         DL3U91692ABA         PCB, BIOS H         RTL         1           E11         DL3U91692ABA         PCB, BIOS H         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA PWB R         RTL         1           E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E16-1         DFJS1097B         WLAN ANTENNA CABLE R         1           E16-2         DFJS1097A         WWAN ANTENNA CABLE L         1           E16-2         DFJS1097YB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1097YA         FFC, PAD         1           E17         N5Z20000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, CLICK         1           E20         DFJS10372A         AUDIO LED SW CABLE         1           E21         DFJS10362A         FFC SD         1           E22         DFJS103147ZA         MODEM CABLE <t< td=""><td>E6</td><td>DL3U61692ABA</td><td>PCB, SD</td><td>RTL</td><td>1</td></t<>	E6	DL3U61692ABA	PCB, SD	RTL	1
E8         DL3U81692ABA         PCB. SC RELAY         RTL         1           E9         DL3U91692ABA         PCB. WWAN         RTL         1           E10         DL3UA1692ABA         PCB. BIOS H         RTL         1           E11         DL3UA1692ABA         PCB. BIOS H         RTL         1           E15         DL3U170ABA         PCB. BT UNIT         RTL         1           E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E15-2         DFJS1097A         WWAN ANTENNA CABLE R         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16         DL3U2170ABA         PCC, PCB, ANTENNA PWB L         RTL         1           E16         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E17         NSZZ00000162         1GB DDR2-667 SO-DIMM         1         1           E18         DFJK9012YA         FFC, SD         1         1           E20         DFJS1145ZA         SW LED I/O CABLE         1         1 <t< td=""><td>E7</td><td>DL3U71692ABA</td><td>PCB, PWR BATTERY LED</td><td>RTL</td><td>1</td></t<>	E7	DL3U71692ABA	PCB, PWR BATTERY LED	RTL	1
E9         DL3U91692ABA         PCB, WWAN         RTL         1           E10         DL3UA1692ABA         PCB, BIOS H         RTL         1           E11         DL3UP1621AAA         PCB, ANTENNA PWB R         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA CABLE R         1           E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E16-2         DFJS1097A         WWAN ANTENNA CABLE R         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1099YA         WWAN ANTENNA CABLE L         1           E17         NSZ00000162         10B DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, PAD         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJK9026ZA         FFC SD         1           E22         DFJS10978A         AUDIO LED SW CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1080ZA         BLUETOOTH CABLE         1           E26	E8	DL3U81692ABA	PCB, SC RELAY	RTL	1
E10         DL3UA1692ABA         PCB, BIOS H         RTL         1           E11         DL3UP1621AAA         PCB, BT UNIT         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA CABLE R         RTL         1           E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E15-2         DFJS100YA         WWAN ANTENNA CABLE R         1           E16         DL3U21710ABA         PCB, ANTENNA CABLE R         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS109YA         WWAN ANTENNA CABLE L         1           E17         NSZ00000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, SC FS         1           E21         DFJK9024ZB         FFC, SLCK         1           E23         DFJS1092A         AUDIO LED SW CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1080ZA         BLUETOOTH CABLE         1           E27	E9	DL3U91692ABA	PCB, WWAN	RTL	1
E11         DL3UP1621AAA         PCB, BT UNIT         RTL         1           E15         DL3U11710ABA         PCB, ANTENNA CABLE R         RTL         1           E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E16-2         DFJS1100YA         WWAN ANTENNA CABLE R         1           E16-1         DJ3U21710ABA         PCB, ANTENNA PWB L         RTL         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16-2         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E17         N5Z20000162         1GB DDR2-667 SO-DIMM         1         1           E18         DFJK9014YA         FFC, SC FS         1         1           E20         DFJK9024ZB         FFC, CLICK         1         1           E21         DFJS1097ZA         AUDIO LED SW CABLE         1         1           E22         DFJS1080ZA         BLUETOOTH CABLE         1         1           E23         DFJS1080ZA         RELAT RELAY WLAN L         1         1           E26         DFJS114ZZ         SPEAKER CAB	E10	DL3UA1692ABA	PCB, BIOS H	RTL	1
E15         DL3U11710ABA         PCB, ANTENNA PWB R         RTL         1           E15-1         DFJS1098ZB         WLAN ANTENNA CABLE R         1           E15-2         DFJS100YA         WWAN ANTENNA CABLE R         1           E16         DL3U21710ABA         PCB, ANTENNA CABLE R         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1099YA         WWAN ANTENNA CABLE L         1           E16-2         DFJS109YA         WWAN ANTENNA CABLE L         1           E16-2         DFJS109YA         WWAN ANTENNA CABLE L         1           E17         N5ZZ00000162         16B DDR2-667 SO-DIMM         1           E18         DFJK9014YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJS109ZA         AUDIO LED SW CABLE         1           E22         DFJS108ZA         BLUETOOTH CABLE         1           E23         DFJS108ZA         BLUETOOTH CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1145ZA         MODEM CABLE         1           E26         DFJS1145ZA	E11	DL3UP1621AAA	PCB, BT UNIT	RTL	1
E15-1         DFJS10982B         WLAN ANTENNA CABLE R         1           E15-2         DFJS1100YA         WWAN ANTENNA CABLE R         1           E16         DL3J21710ABA         PCB, ANTENNA PWB L         RTL         1           E16         DL3J21710ABA         PCB, ANTENNA CABLE L         1         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1         1           E16-2         DFJS1097ZB         WWAN ANTENNA CABLE L         1         1           E17         NSZZ00000162         10B DDR2-667 S0-DIMM         1         1           E18         DFJK9014YA         FFC, SC FS         1         1           E20         DFJK9024ZB         FFC, CLICK         1         1           E21         DFJS1092ZA         FFC, CLICK         1         1           E22         DFJS1092ZA         BLUETOOTH CABLE         1         1           E23         DFJS1097ZA         AUDIO LED SW CABLE         1         1           E24         DFJS1095ZB         CABLE ANT RELAY WLAN L         1         1           E25         DFJS1095ZB         CABLE ANT RELAY WLAN L         1         1           E26         DFJS1112ZC         SPEAKER CABLE-	E15	DL3U11710ABA	PCB, ANTENNA PWB R	RTL	1
E15-2         DFJS1100YA         WWAN ANTENNA CABLE R         1           E16         DL3U21710ABA         PCB, ANTENNA CABLE L         RTL         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1099YA         WWAN ANTENNA CABLE L         1           E17         N5ZZ0000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9014YA         FFC, PAD         1           E20         DFJK9014YA         FFC, CLICK         1           E21         DFJK9024ZB         FFC, CLICK         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1082A         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS10962C         RELAY WLAN ANTENNA CABLE R         1           E30         DFJS1111ZC         SPEAKER CABLE-L         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER <td>E15-1</td> <td>DFJS1098ZB</td> <td>WLAN ANTENNA CABLE R</td> <td></td> <td>1</td>	E15-1	DFJS1098ZB	WLAN ANTENNA CABLE R		1
E16         DL3U21710ABA         PCB, ANTENNA PWB L         RTL         1           E16-1         DFJS1097ZB         WLAN ANTENNA CABLE L         1           E16-2         DFJS1099YA         WWAN ANTENNA CABLE L         1           E17         N5Z200000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, PAD         1           E19         DFJK9012YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJK9025ZA         FFC SD         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS109179ZA         AUDIO LED SW CABLE         1           E24         DFJS1081ZB         LAN CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS10962C         RELAY WLAN ANTENNA CABLE R         1           E30         DFJS1112ZC         SPEAKER CABLE L         1           E31         DFUP1641YA         FPC         1           E32         LOAAO2A000080         SPEAKER         2 <td>E15-2</td> <td>DFJS1100YA</td> <td>WWAN ANTENNA CABLE R</td> <td></td> <td>1</td>	E15-2	DFJS1100YA	WWAN ANTENNA CABLE R		1
E16-1       DFJS1097ZB       WLAN ANTENNA CABLE L       1         E16-2       DFJS1099YA       WWAN ANTENNA CABLE L       1         E17       NSZZ00000162       10B DDR2-667 SO-DIMM       1         E18       DFJK9012YA       FFC, PAD       1         E19       DFJK9014YA       FFC, SC FS       1         E20       DFJK904ZB       FFC, CLICK       1         E21       DFJS109ZA       FFC SD       1         E22       DFJS1145ZA       SW LED I/O CABLE       1         E23       DFJS109ZA       AUDIO LED SW CABLE       1         E24       DFJS1080ZA       BLUETOOTH CABLE       1         E25       DFJS1081ZB       LAN CABLE       1         E26       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E27       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E28       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E30       DFJS1111ZC       SPEAKER CABLE-L       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER CABLE-R       2         E33       N2EAYTYY00033       PAD       1         E3	E16	DL3U21710ABA	PCB, ANTENNA PWB L	RTL	1
E16-2         DFJS1099YA         WWAN ANTENNA CABLE L         1           E17         N5ZZ0000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, PAD         1           E19         DFJK9012YA         FFC, SC FS         1           E20         DFJK9025ZA         FFC SD         1           E21         DFJS1145ZA         SW LED I/O CABLE         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1080ZA         BLUETOOTH CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1080ZA         BLUETOOTH CABLE         1           E26         DFJS1147ZA         MODEM CABLE         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E30         DFJS1112B         SPEAKER CABLE-L         1           E30         DFJS1112C         SPEAKER CABLE-R         2           E33         N2EAYY00003         PAD         1           E34         M OFJ300011         INVERTER         1           E36         K1NB94B00002         EX/PC CASY         1           E33 <td>E16-1</td> <td>DFJS1097ZB</td> <td>WLAN ANTENNA CABLE L</td> <td></td> <td>1</td>	E16-1	DFJS1097ZB	WLAN ANTENNA CABLE L		1
E17         NSZZ0000162         1GB DDR2-667 SO-DIMM         1           E18         DFJK9012YA         FFC, PAD         1           E19         DFJK9014YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJK9025ZA         FFC SD         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1081ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS1096ZC         RELAY WLAN ANTENNA CABLE R         1           E30         DFJS1111ZB         SPEAKER CABLE-L         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER CABLE-R         2           E33         N2EAYPY00003         PAD         1           E34         Δ         NSHAZ0000016         MODEM         1	E16-2	DFJS1099YA	WWAN ANTENNA CABLE L		1
E18         DFJK9012YA         FFC, PAD         1           E19         DFJK9014YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJK9025ZA         FFC SD         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E27         DFJS1095ZC         RELAY WLAN ANTENNA CABLE R         1           E28         DFJS1112Z         SPEAKER CABLE-L         1           E30         DFJS11112B         SPEAKER CABLE-L         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER CABLE-R         1           E33         N2EAYYY00003         PAD         1           E34         MSHAZ000016         MODEM         1           E35         M NOCF1J000011         INVERTER         1           E36         K1NB	E17	N5ZZ00000162	1GB DDR2-667 SO-DIMM		1
E19         DFJK9014YA         FFC, SC FS         1           E20         DFJK9024ZB         FFC, CLICK         1           E21         DFJK9025ZA         FFC SD         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS1096ZC         RELAY WLAN ANTENNA CABLE R         1           E30         DFJS1117ZC         SPEAKER CABLE - L         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER         2           E33         N2EAYTY00003         PAD         1           E36         K1NB94B00002         EX/PC CARD EJECTOR         1           E36         K1NB94B00002         EX/PC CARD EJECTOR         1           E36         K1NB94B00002         EX/PC CARD EJECTOR         1	E18	DFJK9012YA	FFC, PAD		1
E20         DFJK90242B         FFC, CLICK         1           E21         DFJK9025ZA         FFC SD         1           E22         DFJS1145ZA         SW LED I/O CABLE         1           E23         DFJS1079ZA         AUDIO LED SW CABLE         1           E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS1096ZC         RELAY WLAN ANTENNA CABLE R         1           E29         DFJS11112B         SPEAKER CABLE-L         1           E30         DFJS11147A         FPC         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER         2           E33         N2EAYYY0003         PAD         1           E34         M N5HAZ000016         MODEM         1           E35         M NGF1J000011         INVERTER         NRP           E38         DFWP0147ZB         KBD SD RELAY FPC ASS'Y         1           E39	E19	DFJK9014YA	FFC, SC FS		1
E21       DFJK9025ZA       FFC SD       1         E22       DFJS1145ZA       SW LED I/O CABLE       1         E23       DFJS1079ZA       AUDIO LED SW CABLE       1         E24       DFJS1080ZA       BLUETOOTH CABLE       1         E25       DFJS1081ZB       LAN CABLE       1         E26       DFJS1147ZA       MODEM CABLE       1         E27       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E28       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E29       DFJS1111ZB       SPEAKER CABLE-L       1         E30       DFJS1112C       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYY00003       PAD       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E37       NSHZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E	E20	DFJK9024ZB	FFC, CLICK		1
E22       DFJS1145ZA       SW LED I/O CABLE       1         E23       DFJS1079ZA       AUDIO LED SW CABLE       1         E24       DFJS1080ZA       BLUETOOTH CABLE       1         E25       DFJS1081ZB       LAN CABLE       1         E26       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E27       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E28       DFJS1112ZB       SPEAKER CABLE-L       1         E29       DFJS1111ZB       SPEAKER CABLE-R       1         E30       DFJS1112ZC       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYY00003       PAD       1         E35       MOGF1J000011       INVERTER       NRP         E36       K1NB94B0002       EX/PC CARD EJECTOR       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY00060       LCD HIGH       1         E41 </td <td>E21</td> <td>DFJK9025ZA</td> <td>FFC SD</td> <td></td> <td>1</td>	E21	DFJK9025ZA	FFC SD		1
E23       DFJS1079ZA       AUDIO LED SW CABLE       1         E24       DFJS1080ZA       BLUETOOTH CABLE       1         E25       DFJS1081ZB       LAN CABLE       1         E26       DFJS1147ZA       MODEM CABLE       1         E27       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E28       DFJS1095ZC       RELAY WLAN ANTENNA CABLE R       1         E29       DFJS1111ZE       SPEAKER CABLE-L       1         E30       DFJS1112C       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYY00003       PAD       1         E34       MSHAZ000016       MODEM       1         E35       M N06F1J000011       INVERTER       NRP         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0146ZA       BATTERY FPC ASS'Y       1         E40       L5EDDYY0060       LCD HIGH       1         E41       DFJS1128ZA       LCD CABLE       1         E42       DFJS1128ZA </td <td>E22</td> <td>DFJS1145ZA</td> <td>SW LED I/O CABLE</td> <td></td> <td>1</td>	E22	DFJS1145ZA	SW LED I/O CABLE		1
E24         DFJS1080ZA         BLUETOOTH CABLE         1           E25         DFJS1081ZB         LAN CABLE         1           E26         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS1096ZC         RELAY WLAN ANTENNA CABLE R         1           E29         DFJS1111ZB         SPEAKER CABLE-L         1           E30         DFJS1114ZC         SPEAKER CABLE-R         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER         2           E33         N2EAYYY00003         PAD         1           E34         ▲         N5HAZ000016         MODEM         1           E35         ▲         N0GF1J000011         INVERTER         NRP         1           E36         K1N894B00002         EX/PC CARD EJECTOR         1         1           E38         DFWP0146ZA         BATTERY FPC ASS'Y         1         1           E39         DFWP0147ZB         KBD SD RELAY FPC ASS'Y         1         1           E40         L5EDDYY00060         LCD HIGH         1         1	E23	DFJS1079ZA	AUDIO LED SW CABLE		1
E25       DFJS1081ZB       LAN CABLE       1         E26       DFJS1147ZA       MODEM CABLE       1         E27       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E28       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E29       DFJS1111ZB       SPEAKER CABLE-L       1         E30       DFJS1111ZC       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       MoHAZ000016       MODEM       1         E35       MOGF1J000011       INVERTER       NRP         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0146ZA       BATTERY FPC ASS'Y       1         E40       L5EDDYY0060       LCD HIGH       1         E41       DFJS1112ZA       INVERTER CABLE       1         E42       DFJS114ZA       INVERTER CABLE       1         E42       DFJS114ZA       INVERTER CABLE       1         E43       M CR2032/S5Z<	E24	DFJS1080ZA	BLUETOOTH CABLE		1
E26         DFJS1147ZA         MODEM CABLE         1           E27         DFJS1095ZB         CABLE ANT RELAY WLAN L         1           E28         DFJS1096ZC         RELAY WLAN ANTENNA CABLE R         1           E29         DFJS1111ZB         SPEAKER CABLE-L         1           E30         DFJS1112ZC         SPEAKER CABLE-R         1           E31         DFUP1641YA         FPC         1           E32         L0AA02A00080         SPEAKER CABLE-R         2           E33         N2EAYYY00003         PAD         1           E34         Δ         N5HAZ000016         MODEM         1           E35         Δ         N0GF1J000011         INVERTER         NRP         1           E36         K1NB94B00002         EX/PC CARD EJECTOR         1         1           E38         DFWP0146ZA         BATTERY FPC ASS'Y         1         1           E39         DFWP0146ZA         BATTERY FPC ASS'Y         1         1           E40         L5EDDYY00060         LCD HIGH         1         1           E41         DFJS114ZA         INVERTER CABLE         1         1           E42         DFJS1128ZA         LCD CABLE         1	E25	DFJS1081ZB	LAN CABLE		1
E27       DFJS1095ZB       CABLE ANT RELAY WLAN L       1         E28       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E29       DFJS1111ZB       SPEAKER CABLE-L       1         E30       DFJS1112C       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       Δ       N5HAZ000016       MODEM       1         E35       Δ       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B0002       EX/PC CARD EJECTOR       1       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1       1         E39       DFWP0146ZA       BATTERY FPC ASS'Y       1       1         E40       L5EDDYY00060       LCD HIGH       1       1         E41       DFJS114ZA       INVERTER CABLE       1       1         E42       DFJS1128ZA       LCD CABLE       1       1         E43       Δ       CR2032/S5Z       BATTERY       1       1         E43       Δ       CR2032/S5Z       BATTERY </td <td>E26</td> <td>DFJS1147ZA</td> <td>MODEM CABLE</td> <td></td> <td>1</td>	E26	DFJS1147ZA	MODEM CABLE		1
E28       DFJS1096ZC       RELAY WLAN ANTENNA CABLE R       1         E29       DFJS1111ZB       SPEAKER CABLE-L       1         E30       DFJS1112ZC       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       22         E33       N2EAYYY00003       PAD       1         E34       ▲       N5HAZ000016       MODEM       1         E35       ▲       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B0002       EX/PC CARD EJECTOR       1       1         E36       K1NB94B0002       EX/PC ASS'Y       1       1         E37       ▲       NSHZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1       1         E40       L5EDDYY00060       LCD HIGH       1       1         E41       DFJS1144ZA       INVERTER CABLE       1       1         E42       DFJS1128ZA       LCD CABLE       1       1         E43       △       CR2032/S5Z <t< td=""><td>E27</td><td>DFJS1095ZB</td><td>CABLE ANT RELAY WLAN L</td><td></td><td>1</td></t<>	E27	DFJS1095ZB	CABLE ANT RELAY WLAN L		1
E29       DFJS1111ZB       SPEAKER CABLE-L       1         E30       DFJS1112ZC       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       M N5HAZ000016       MODEM       1         E35       M NOGF1J000011       INVERTER       NRP         E36       K1NB94B0002       EX/PC CARD EJECTOR       1         E36       K1NB94B0002       EX/PC CARD EJECTOR       1         E37       M N5HZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY00060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       M CR2032/S5Z       BATTERY       1         E201       N2ABZY00035       KEYBOARD VISTA, U.S.       1         E202       M N3CAYYY0040       HDD SATA, 160GB       1	E28	DFJS1096ZC	RELAY WLAN ANTENNA CABLE R		1
E30       DFJS1112ZC       SPEAKER CABLE-R       1         E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       ▲       N5HAZ000016       MODEM       1         E35       ▲       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E37       ▲       N5HZC0000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDY00060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       ▲       CR2032/S5Z       BATTERY       1         E201       N2ABZY000035       KEYBOARD VISTA, U.S.       1         E202       ▲       N3CAYYY00040       HDD SATA, 160GB       1 <td>E29</td> <td>DFJS1111ZB</td> <td>SPEAKER CABLE-L</td> <td></td> <td>1</td>	E29	DFJS1111ZB	SPEAKER CABLE-L		1
E31       DFUP1641YA       FPC       1         E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       ▲       N5HAZ000016       MODEM       1         E35       ▲       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B0002       EX/PC CARD EJECTOR       1       1         E37       ▲       N5HZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY0060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       ▲       CR2032/S5Z       BATTERY       1         E201       N2ABZY00035       KEYBOARD VISTA, U.S.       1         E202       ▲       N3CAYYY0040       HDD SATA, 160GB       1	E30	DFJS1112ZC	SPEAKER CABLE-R		1
E32       L0AA02A00080       SPEAKER       2         E33       N2EAYYY00003       PAD       1         E34       ▲ N5HAZ000016       MODEM       1         E35       ▲ N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B0002       EX/PC CARD EJECTOR       1         E37       ▲ N5HZC0000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY0060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       ▲ CR2032/S5Z       BATTERY       1         E201       N2ABZY000035       KEYBOARD VISTA, U.S.       1         E202       ▲ N3CAYYY00040       HDD SATA. 160GB       1	E31	DFUP1641YA	FPC		1
E33       N2EAYYY00003       PAD       1         E34       ▲       N5HAZ000016       MODEM       1         E35       ▲       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E37       ▲       N5HZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY00060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       ▲       CR2032/S5Z       BATTERY       1         E201       N2ABZY00035       KEYBOARD VISTA, U.S.       1         E202       ▲       N3CAYYY00040       HDD SATA. 160GB       1	E32	L0AA02A00080	SPEAKER		2
E34       △ N5HAZ0000016       MODEM       1         E35       △ N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E37       △ N5HZC0000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY00060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       △ CR2032/S5Z       BATTERY       1         E201       N2ABZY000035       KEYBOARD VISTA, U.S.       1         E202       △ N3CAYYY00040       HDD SATA. 160GB       1	E33	N2EAYYY00003	PAD		1
E35       ▲       N0GF1J000011       INVERTER       NRP       1         E36       K1NB94B00002       EX/PC CARD EJECTOR       1         E37       ▲       N5HZC000038       WIRELESS LAN MODULE       1         E38       DFWP0146ZA       BATTERY FPC ASS'Y       1         E39       DFWP0147ZB       KBD SD RELAY FPC ASS'Y       1         E40       L5EDDYY0060       LCD HIGH       1         E41       DFJS1144ZA       INVERTER CABLE       1         E42       DFJS1128ZA       LCD CABLE       1         E43       ▲       CR2032/S5Z       BATTERY       1         E201       N2ABZY000035       KEYBOARD VISTA, U.S.       1         E202       ▲       N3CAYYY00040       HDD SATA. 160GB       1	E34	/ <u>\</u> N5HAZ0000016	MODEM		1
E36K1NB94B00002EX/PC CARD EJECTOR1E37▲N5HZC0000038WIRELESS LAN MODULE1E38DFWP0146ZABATTERY FPC ASS'Y1E39DFWP0147ZBKBD SD RELAY FPC ASS'Y1E40L5EDDYY00060LCD HIGH1E41DFJS1144ZAINVERTER CABLE1E42DFJS1128ZALCD CABLE1E43▲CR2032/S5ZBATTERY1E201N2ABZY000035KEYBOARD VISTA, U.S.1E202▲N3CAYYY00040HDD SATA. 160GB1	E35	/ <u>NOGF1J000011</u>	INVERTER	NRP	1
E37         Z∆         NSH2C0000038         WIRELESS LAN MODULE         1           E38         DFWP0146ZA         BATTERY FPC ASS'Y         1           E39         DFWP0147ZB         KBD SD RELAY FPC ASS'Y         1           E40         L5EDDYY00060         LCD HIGH         1           E41         DFJS1144ZA         INVERTER CABLE         1           E42         DFJS1128ZA         LCD CABLE         1           E43         ⚠         CR2032/S5Z         BATTERY         1           E201         N2ABZY00035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY0040         HDD SATA. 160GB         1	E36	K1NB94B00002	EX/PC CARD EJECTOR		1
E38         DFWP0146ZA         BATTERY FPC ASS'Y         1           E39         DFWP0147ZB         KBD SD RELAY FPC ASS'Y         1           E40         L5EDDYY00060         LCD HIGH         1           E41         DFJS1144ZA         INVERTER CABLE         1           E42         DFJS1128ZA         LCD CABLE         1           E43         ▲         CR2032/S5Z         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY00040         HDD SATA. 160GB         1	E3/	/ <u>\</u> N5HZC0000038	WIRELESS LAN MODULE		1
E39         DFWP01472B         KBD SD RELAY FPC ASS'Y         1           E40         L5EDDYY00060         LCD HIGH         1           E41         DFJS1144ZA         INVERTER CABLE         1           E42         DFJS1128ZA         LCD CABLE         1           E43         ▲         CR2032/S5Z         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY00040         HDD SATA. 160GB         1	E38		BATTERY FPC ASS'Y		1
E40         LSEDDYY00060         LCD HIGH         1           E41         DFJS1144ZA         INVERTER CABLE         1           E42         DFJS1128ZA         LCD CABLE         1           E43         ▲         CR2032/S5Z         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY00040         HDD SATA. 160GB         1	E39		KBD SD RELAY FPC ASS'Y		1
E41         DFJS1144ZA         INVERTER CABLE         1           E42         DFJS1128ZA         LCD CABLE         1           E43         ▲         CR2032/S5Z         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY00040         HDD SATA. 160GB         1	E40				1
E42         DFJS1128ZA         LCD CABLE         1           E43         ▲         CR2032/S5Z         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         ▲         N3CAYYY00040         HDD SATA. 160GB         1	E41	DFJS1144ZA			1
E43         CR20327S52         BATTERY         1           E201         N2ABZY000035         KEYBOARD VISTA, U.S.         1           E202         M3CAYYY00040         HDD SATA. 160GB         1	E42	DFJS1128ZA			1
E201 N2AB21000035 REYBOARD VISTA, U.S. 1 E202 A N3CAYYY00040 HDD SATA. 160GB 1	E43	VIL UR2032/552			1
	E201 E202				1
		113CATTY00040	םטטט אוא, וטטטם		1
	ACCESSUIRS				4
					1
	Δ2	$\bigwedge  (E_A \Delta 5803 MM1)$			1
					1
	Δ5	DE 1995474			1
A6 DEQUALITY INCOLUTION DEL 1	A6	DFQM8419MAU	RECOVERY DVD VISTA		1
Packing Material					
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P1	DFPN0851YAT	CUSHION T	2		
P2	DFPN0852ZAT	CUSHION B	2		
P4	DFPE0901ZAT	MANUAL HOLDER	1		
P5	DFPE0875ZCT	ACCESSORY HOLDER	1		
P6	DFPK1252ZAT		1		
P7	DFPH00777AT		1		
P8			1		
Fo Mochanical Parts	DIFFUIJUZAI				
			1		
KI KO					
K2			1		
K3	DFHR3G86ZC		1		
K4	DFHR3G87ZA	LCD DAMPER D NRP	1		
K5	DFMC0770ZA	CONDUCTIVE TAPE NRP	1		
K6	DFHE1071ZB	CONDUCTIVE TAPE NRP	1		
K7	DFMC0889ZA	SHIELD SHEET A NRP	1		
K8	DFMC0890ZA	SHIELD SHEET B NRP	1		
K11 🔬	DFKF0281WA-0	LCD REAR COVER	1		
K12	DFBH1184ZB	HINGE L	1		
K13	DFBH1185ZB	HINGE R	1		
K14	DFHR3J72ZA	LCD DAMPER E NRP	2		
K15 🔨	DFKE0900ZA-0	LCD LATCH	1		
K16	DFUN0086ZA	LCD LATCH SPRING	1		
K17	DFDF5026ZA		1		
K18	DFMD7B37ZA		1		
K19	DFHE1068ZB		2		
K21			1		
K22			1		
			1		
K24 <u>Z1</u>			1		
K25			1		
K20		PANASONIC BADGE NRP	1		
K27			1		
K28	DFHG2009ZA-0	LCD RUBBER NRP	2		
K29	DFGX0283ZA-1	LCD SCREW SHEET NRP	5		
K30 <u>Z1</u>	DFKA0062YC-0	TOP CASE	1		
K31	DFHR3G01ZA	KB WATER PROOF B NRP	1		
K32	DFHR3G79ZB	WATER PROOF SC NRP	1		
K33	DFHR3G80ZB	WATER PROOF BT NRP	1		
K34	DFHR3H76ZA	PAD WP SHEET NRP	1		
K35	DFBC0324ZA-0	CLICK BUTTON L	1		
K36	DFBC0325ZA-0	CLICK BUTTON R	1		
K37	DFHR3H74ZA	PAD BUTTON WP SHEET	2		
K38	DFMC0797ZA	EARTH PLATE	1		
K39	DFHR6327ZA	PAD HLDER	1		
K40	DFMD7B36ZA	TOP RELAY PLATE	1		
K41	DFHR3H38ZA	KBD WATER PROOF SHEET A NRP	3		
K43	DFHR3H50ZA	FIN DUCT B NRP	1		
K44	DFHR6324ZA	SD LED LENZ	1		
K45	DFMC0852ZA	SD EARTH PLATE	1		
K48 M	DFKM0534YC-0	BOTOTM CASE	1		
K49	DFHG20357A-0		2		
K50	DFHG19767B-0		2		
K51			2		
K52			1		
K52			1		
K54					
			1		
K00			1		
K00			1		
<u>K5/</u>			1		
K58			1		
K59	DFUD0043ZC	BATTERY LATCH SPRING	1		
K60	DFHG2033ZA	SPACER CUSHION	1		
K61	DFHE1064ZA	GASKET-3X3X10 NRP	1		

K62		DFHR3G78ZA	FIN DUCT	NRP	1
K63		DFMC0895ZA	EARTH PLATE PORTRE		1
K64		DFHE1061ZA	GASKET-6-6-20	NRP	1
K65		DFHR3G83ZA	BOTTOM WP CUSHION	NRP	1
K66		DELIN0056ZA			2
K67		DEKE0555YA-0			2
K68	<u> </u>				1
KCO		DEMY42047C			1
K09				INRP	1
K/U		DFMC0903ZA			1
K/1		DFMD9098ZC	KENGSINTONG PLATE ASS'Y		1
K/2		DFHR3J14ZA	PORTRE SHEET	NRP	1
K79		DFHR9122ZA	HDD GUIDE ASS'Y		1
K80		DFHR3K04ZA	SPACER	NRP	1
K82		DFHD04H006ZA	HEX SPACER 46		2
K83		DFMY0468ZA	LAN THERMAL RUBBER		2
K84		DFMY3248ZA	VRAM THERMAL SHEET	NRP	1
K85		DFMX1316ZA	INSULATION SHEET HDD HOLDER	NRP	1
K86		DFHR3F46ZA	PROTECTION SHEET	NRP	1
K88		DFHR3H85ZA		NRP	4
K80				INIXI	
K00					1
K90					1
K91		DFMX1308ZC	INSULATION SHEET FPC	NRP	1
K92		DFKE9094ZA-0	HANDLE ASS'Y		1
K92-1	$\triangle$	DFKE0829ZA-0	GRIP LOWER		1
K92-2		DFHR6223ZA	HANDLE RING		4
K92-3	$\triangle$	DFKE0899ZA-0	HANDLE JOINT		2
K92-4	$\mathbb{A}$	DFKE0828ZA-0	GRIP UPPER		1
K92-5		DRSB3+8FKLT	SCREW		2
K92-6	$\wedge$	DFKE0904ZA-0	HANDLE BASE L		1
K92-7		DFKE0905ZA-0	HANDLE BASE R		1
K92-8		DFHR6330ZA			2
K02-0				NRP	2
K02-5				INIXI	1
K02 4					1
K93-1					1
K93-2		DFMY3245ZA			1
K93-3		DXSB2+4FNL1	SCREW		3
K93-4		UDQF2ZH38	FAN		1
K93-5		DFHE5122YA	SCREW		3
K94		DFHE1067ZA	CONDUCTIVE TAPE-10X30	NRP	1
K96		DFME0157XB	HINGE SUPPORT R		1
K97		DFHE1054ZB	GASKET-65TSV6-6-12	NRP	1
K98		DFHG1978ZA	SPEAKER RUBBER		2
K99		DFHR6319ZB	SPEAKER HOLDER		1
K100		DFKW00017B	DC JACK COVER		1
K103		DEME0156YA			1
K105		DFHR3.1667C	MP SPACER	NRD	י ר
L/107				ΙΝΙΛΓ	<u>ک</u>
K107					1
N 108				NKP	1
K110					1
K111		DFMX1288ZB	INSULATION SHEET DIMM	NRP	1
K112		DFMD7B32ZC-0	ROBSON COVER		1
K113		DFHE1053ZA	GASKET-65TSV3-3-20	NRP	1
K114		DFHG2034ZB-0	FOOT RUBBER	NRP	1
K115		DFHE1089ZA	GASKET-3-3-65	NRP	1
K116		DFHE1088ZA	GASKET-65TSV2.5-1.5-20	NRP	1
K117		DFHR6342ZB	MODELAN HOLDER-1		1
K118		DFMX13117A		NRP	1
K110		DFHR63437R			1
K100					1
K120				חסוא	1
<u>Γ</u> ,  ∠				INKP	1
K122					1
K123					1
K124		DXHM0040ZA	SCREW		2

K125	DFGX0487ZD-0	COVER DUMMY	1
K126	DFMC0884ZA	EARTH PLATE MP	1
K127	DFHD14H001ZA	HEX SPACER (13.6)	1
K128	DFHG6034ZB	MP GUIDE	1
K129	DFMD7B57ZA	MODEM PLATE	1
K130	DFMX1297ZA	INSULATION SHEET SIM NRP	1
K131	DFMD7B31ZC	MP HOLD PLATE	1
K133	DFHR3H87ZB	HDD SHEET A NRP	1
K134	DFHR6318ZA		1
K135	DFMY5043YA	HEAT SINK ASS'Y	1
K138		SCREW	5
K130			5
K140			3
K140			2
K141			1
K142	DFHE1062ZA	GASKET-10X1X10 NRP	2
K143	DFHE1063ZA	GASKET-10X5X15 NRP	1
K144	DFMX1309ZC	INSULATION SHEET FPC2 NRP	1
K145	DFHE1076ZA	CONDUCTIVE TAPE-30X80 NRP	1
K146	DFHE1078ZA	CONDUCTIVE TAPE HDD NRP	1
K147	DFHR6328ZA-0	WL BUTTON	1
K148	DFMX1139ZA	PROTECTION SHEET NRP	1
K149	DFGM0011ZA	BOTTOM MESH PLATE	1
K150	DFHE1057ZB	CONDUCTIVE TAPE-7X35 NRP	1
K151	DFHR3H62ZB	TOP WATERPROOF SHEET NRP	1
K152	DFHR6357ZB	SPEAKER HOLDER L	1
K153	DFMX1298ZA	INSULATION SHEET SPEAKER NRP	2
K157	DFMC0766YBT	GASKET-6-8-8 NRP	1
K159	DFGX0484ZD-0	COVER BT	1
K160	DFGX0283ZA-1	I CD SCREW SHEET NRP	3
K161	DFMD7B60ZA		1
K162	DFGX04837F-0		1
K163			1
K164			1
K165			1
K105			1
K100			1
K107			1
K168			1
K169			1
K170	DFHM0424ZB-0		2
K171	DFHM0427ZC-0	PC COVER PLATE	1
K172	DRYN4+J12KLT	SCREW	2
K173	DFHR3H45ZA	HANDLE SHEET	2
K174	DFQT0075ZA	CENTRINO 2 DUO LABEL	1
K175	DFQT0066ZA	VISTA BASIC LABEL	1
K176	DFQT0045ZA	ENERGY STAR LABEL NRP	1
K201	DFGT1291ZA	NAMEPLATES(US)	1
K202	DFQT0055XA	COA SERIAL LAMINATE	1
K211	DFBC0323ZA-0	POWER SW BUTTON	1
K212	DFGE0132ZB-0	CENTER COVER NET	2
K213	DFGX0493YA-0	TILT PANEL	1
K214	DFGK0138ZA-0	TILT PANEL SHEET	1
K215	DFHR3H77ZC	TILT PANEL WP SHEET	1
K216	DFHR3H78ZB	TILT PANEL WP SHEET B	1
K217	DFHR3H79ZB	TILT PANEL WP SHEET C	1
K218	DFHR3K26ZA	KBD TAPE	6
K219	DFHR3L01ZA	KBD SPACER	1
K221	DFWV99A0128		1
K221-1	DFGX04927D-0	HDD CASE	1
K221-3		HDD CASE LIPPER	1
K221-0			1
K221-4			4
K221-5			4
K221-0			4
r\221-0		UUU FRO 400 I	1

K221-9		DFHR3K17ZB	HDD SHEET NRP	1
K224		DFHE1098ZA	CONDUCTIVE TAPE-15X90	1
K231		DFMX1340ZC	INVERTER CASE UPPER	1
K232		DFMX1341ZA	INV CASE LOWER	1
K241		DFHE0326XAT	GASKET 10-4-15 NRP	1
K242		DFMC0703ZAT	CONDUCTIVE TAPE 15X40 NRP	1
K243		DFHE1116ZA	GASKET(65TSV6-6-50)	1
K244		DFHR3M08ZA	KENSINGTON SHEET NRP	1
K245		DFMY0496ZA	THERMAL SHEET 13X15X1.3	1
K246		DFMY0499ZA	THERMAL SHEET 13X16X1 NRP	4
K247		DFMX1348ZA	INSULATION SHEET VGA NRP	1
K248		DFMX1349ZA	INSULATION SHEET MCH	1
K249		DFHD05H007ZA	HEX NUT SPACER	2
K250		DFMX1363ZA	PROTECTION SHEET NRP	1
K251		DFMC0729ZAT	SHIELD CLOTH NRP	1
K252		DFHR3L07ZB	CABLE SHEET NRP	1
K253		DFHR6399ZA	CABLE HOLDER	1
K254		DFHR3L11ZA	SPACER	1
N1		DFHE5035ZB	SCREW	4
N2		DFHE5122YA	SCREW	38
N3		DRHM0144ZA	SCREW	1
N4		DRHM0093ZA	SCREW	38
N5		XTB2+6GFN	SCREW	2
N6		DRHM0115ZA	SCREW	2
N7		DRHM5025YAT	SCREW	10
N8		DRHM5054XAT	SCREW	4
N9		DRHM5104ZAT	SCREW	5
N10		DRSB2+3FKLT	SCREW	1
N11		DXQT2+F3FNLT	SCREW	3
N12		DXSB2+4FNLT	SCREW	10
N13		DXYN2+F12FNL	SCREW	4
N14		XTB26+10GJKT	SCREW	10
N15		XQN17+BJ6FJ	SCREW	2
N16		DRQT2+E8FKLT	SCREW	2
N202		DRSB2+5FKLT	SCREW	5
DVD MULTI DRIVE				•
DM1	$\square$	DFWV78A0267	DVD MULTI DRIVE ASS'Y	1
DM1-1		DFHR9131ZA	BEZEL ASS'Y	1
DM2	$\square$	DFKE0709YA-0	MP BOTTOM	1
DM3	$\wedge$	DFKE0710ZA-0	MP CABINET TOP	1
DM4		DFHR6085ZA-0	MP LATCH	1
DM5		DFWP0142YA	MP FPC	1
DM6		DRHM5067YA	SCREW	2
DM7		DRQT2+E8FKLT	SCREW	2
CF-52EKMHDxM	Smart C	ard Reader, Finger P	rint Reader	-
SF1		DL3UP1698ABA	SC FPR PWB UNIT (W SC FPR)	1
SF2		DFGX0283ZA-1	LCD SCREW SHEET NRP	1
SF3		DFGX0489ZD-0	COVER SC FS	1
SF4		DFHE1057ZB	CONDUCTIVE TAPE-7X35 NRP	1
SF5		DFHR3F98ZA	FP WATERPROOF NRP	1
SF6		DFMD7B33YA	SMART CARD HOLDER	1
SF7		DFHE5122YA	SCREW	1
SF8		DXQT2+D25FNL	SCREW	4
SF9		DFHR3C92ZB	FP POOL SHEET	1

## **Replacement Parts List**

Note: Important Safety Notice

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

CF-52EKMxDxM			
REF. NO and AREA	PART NO.	DESCRIPTION	Q'TY
MAIN PCB HIGH	-	•	•
C 1, 2, 3, 5, 6, 7, 10, 11,	F1J0J106A016	CAPACITOR, 6.3V, 10µF	106
12, 14, 15, 16, 18, 19,			
20, 22, 23, 24, 27, 28,			
29, 30, 31, 32, 33, 34,			
35, 36, 37, 38, 39, 40,			
42, 109, 110, 111, 112,			
118, 119, 123, 128, 132,			
173, 176, 189, 192, 243,			
244, 245, 254, 275, 276,			
287, 289, 290, 352, 358,			
360, 364, 365, 367, 372,			
376, 377, 378, 379, 381,			
387, 435, 464, 465, 475,			
476, 478, 482, 487, 489,			
500, 501, 511, 536, 543,			
544, 553, 692, 693, 694,			
695, 713, 714, 728, 729,			
/33, /3/, /4/, /51, /61,			
765, 775, 779, 1027,			
1028, 1046, 1087, 1096,			
C 4, 113, 125, 137, 164,	EEFCX0D221R	CAPACITOR, 2V, 220µF	11
240, 241, 1035, 1052,			
1055, 1196			
C 8, 9, 13, 17, 21, 25, 44,	F1G1C104A042	CAPACITOR, 16V, 0.1µF	204
45, 46, 47, 98, 106, 117,			
124, 130, 133, 135, 136,			
142, 155, 156, 159, 167,			
168, 169, 170, 183, 184,			
100, 100, 200, 204, 200, 000			
230, 237, 230, 239, 240,			
249, 250, 251, 252, 253,			
261 263 266 267 269			
270 271 272 273 274			
277 300 303 336 337			
338, 339, 345, 351, 396			
408, 409, 428, 429, 434.			
436, 437, 438, 448, 449.			
472, 473, 474, 477, 480			
481, 483, 485, 488, 491.			
492,			
			I I

502, 503, 506, 508, 510, 512, 513, 514, 515, 516, 522, 523, 524, 525, 528, 529, 530, 531, 532, 533, 534, 535, 538, 542, 546, 549, 550, 554, 555, 556, 557, 558, 563, 564, 565, 566, 567, 574, 575, 576, 608, 618, 623, 630, 631, 654, 657, 658, 663, 668, 669, 670, 677, 686, 696, 697, 698, 700, 701, 702, 705, 716, 717, 718, 720, 723, 730, 731, 732, 734, 735, 736, 740, 741, 744, 745, 746, 748, 749, 750, 762, 763, 764, 768, 769, 772, 773, 774, 776, 777, 778, 782, 783, 791, 794, 795, 796, 816, 817, 819, 820, 825, 826, 829, 831, 1098, 1156, 1157, 1158, 1172			
C 41, 278, 283	F1G1H100A544	CAPACITOR, 50V, 10pF	3
C 43, 537, 539, 540, 624, 667, 673, 675, 676, 678, 679, 680, 681, 682, 823, 1041, 1043, 1048, 1068, 1069, 1070, 1071, 1073, 1080, 1082, 1089, 1104, 1112, 1134, 1137, 1141	F1G1H102A496	CAPACITOR, 50V, 1000pF	31
C 48, 49, 50, 51, 52, 53, 54, 55, 64, 65, 66, 67, 68, 69, 70, 71, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 179, 181, 195, 197, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 441, 442, 445, 446, 447, 498, 499, 568, 626, 627, 628, 703, 704, 719	F1G1A104A014	CAPACITOR, 10V, 0.1µF	92
C 96, 97, 114, 122, 127, 158, 172, 175, 178, 180, 188, 191, 194, 196, 206, 207, 208, 209, 248, 294, 295, 526, 707	F1J0J226A051	CAPACITOR, 6.3V, 22µF	23
C 99, 107, 138, 140, 141, 150	F1G0J474A001	CAPACITOR, 6.3V, 0.47µF	6

C 100, 102, 120, 121, 126,	F1G0J105A001	CAPACITOR, 6.3V, 1µF	57
146, 148, 165, 242, 258,			
262, 268, 284, 285, 298,			
359 361 362 363 366			
368 369 370 371 373			
374, 375, 380, 382, 383			
384, 385, 386, 388, 389,			
390, 392, 393, 394, 397,			
398, 399, 400, 401, 402,			
403, 486, 490, 545,			
1007, 1093, 1161			
C 104, 105, 152, 153, 157,	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	6
163	E4114A4050045		04
	F1H1A1050015	CAPACITOR, 10V, 1µF	24
712 721 742 756 770			
784, 790, 822, 834			
1015, 1016, 1060, 1062.			
1177	<b>E101E1001000</b>		
C 174, 177, 190, 193, 200,	F1G1E103A062	CAPACITOR, 25V, 0.01µF	52
202, 203, 204, 205, 210, 211, 212, 213, 247, 270			
211, 212, 213, 247, 279, 280, 281, 282, 201, 712			
443 454 468 471 494			
497, 609, 610, 672, 738,			
739, 752, 753, 766, 767,			
780, 781, 818, 836,			
1025, 1026, 1090, 1102,			
1111, 1150, 1151, 1154,			
1155, 1165, 1167, 1206,			
1209 C 201 1125 1126 1127			1
$C_{201, 1123, 1120, 1127}$			4
C 264 265	F1G1C222A004		3
$C_{204}, 203$	F1G1C223A004		
290, 297, 299, 301, 302, 340 341 342 343 344	F1H031030022	CAFACITOR, 0.3V, THE	11
346			
C 348, 349, 356, 357, 430,	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	13
569, 570, 615, 659, 685,			
726, 727, 838			
C 427, 495, 496, 504, 505,	F1G1H471A496	CAPACITOR, 50V, 470pF	9
$\begin{array}{c} 1008, 1084, 1085, 1136 \\ \hline 0.431, 466, 467, 469, 470 \\ \hline \end{array}$	F1G1H221A496	CAPACITOR 501/ 220pF	18
611 612 613 614 617	1 10112217490	CAPACITOR, 30V, 220pi	10
620, 621, 622, 646, 648			
1066. 1072. 1138			
C 451	F1J1E334A081	CAPACITOR, 25V, 0.33µF	1
C 455, 1005	F1G1H271A495	CAPACITOR, 50V, 270pF	2
C 507, 509, 709, 1132	F1G1H330A542	CAPACITOR, 50V, 33pF	4
C 517, 518, 519, 521	F1H2A103A020	CAPACITOR, 100V, 0.01µF	4
C 520	F1L3D102A003	CAPACITOR, 2000V, 1000pF	1
C 527, 1002, 1042, 1045,	F1G1H1010005	CAPACITOR, 50V, 100pF	8
1086, 1135, 1143, 1195			
0 547, 548, 640, 643			4
C 559, 560, 561, 562	F1J1E105A080		4
C 572, 573, 625, 1064, 1083	F1G1H470A542	CAPACITOR, 50V, 47pF	5
C 674	F1G1A683A014	CAPACITOR, 10V. 0.068uF	1
C 725. 1147	F1G1C473A004	CAPACITOR, 16V, 0.047µF	2
C 789, 797, 798	F1J0.I475A009	CAPACITOR, 6 3V, 4 7uF	- 3
C 792 793 827 828	F1G1H220A542	CAPACITOR 50V 22pF	4
C 824	F1.I0.I106A013	CAPACITOR 6.3V 100F	
C 1000 1006 1009 1011	F1H1H1830001		6
1012, 1067			
C 1003	F1H1H562A748	CAPACITOR, 50V, 5600pF	1
C 1004	F1G1H121A495	CAPACITOR, 50V, 120pF	1

C 1010		F1G1H181A495	CAPACITOR, 50V, 180pF	1
C 1013		F1G1H390A542	CAPACITOR, 50V, 39pF	1
C 1014, 1063, 1208		F1G1H222A496	CAPACITOR, 50V, 2200pF	3
C 1017, 1018, 1059	1	F1J1E224A081	CAPACITOR, 25V, 0.22µF	3
C 1019, 1020, 1022, 1023,		F1K1E1060001	CAPACITOR, 25V, 10µF	28
1036, 1051, 1057, 1076,				
1101, 1105, 1107, 1108,				
1129, 1144, 1180, 1184,				
1185, 1187, 1188, 1189,				
1190, 1191, 1192, 1193,				
1194, 1210, 1211, 1212				
C 1029, 1031, 1032, 1034,		EEFSX0D331ER	CAPACITOR, 2V, 330µF	8
1075, 1099, 1100, 1103				
C 1038, 1079, 1088, 1130,		F1H1C224A074	CAPACITOR, 16V, 0.22µF	5
		E1U1U182A748		2
C 1039, 1091		F1H1H102A740		2 15
C = 1040, 1047, 1049, 1001, 1081, 1131, 1133, 1142		FININI04A/40	CAPACITOR, 50V, 0. THE	15
1159 1162 1163 1174				
1176, 1178, 1179				
C 1044		F1G1H561A496	CAPACITOR, 50V, 560pF	1
C 1074		F1G1H391A496	CAPACITOR, 50V, 390pF	1
C 1097	1	EEFCD0D101ER	CAPACITOR, 2V, 100µF	1
C 1145		EEFCX0G151R	CAPACITOR, 2V, 150µF	1
C 1166		F1L1E106A017	CAPACITOR, 25V, 10µF	1
C 1168		F1J1E105A009	CAPACITOR, 25V, 1µF	1
C 1175		F1G1H152A496	CAPACITOR, 50V, 1500pF	1
C 1181, 1182, 1183		F1I 1C106A008	CAPACITOR 16V 100F	3
CF 1 2 3		D4CC11030026	THERMAL SENSOR	3
CN 2		K1MML0B00005	CONNECTOR	1
CN 3		K1MML0B00006	CONNECTOR	1
CN 4		K1KA02AA0329	CONNECTOR	1
CN 5 19		K1KA30AA018/	CONNECTOR	2
CN 7		K1KA10AA0033	CONNECTOR	1
		K2H710/R001/	CONNECTOR	1
			CONNECTOR	1
CN 13		K1MXF0D00003	CONNECTOR	1
		K1KP20P00021	CONNECTOR	1
CN 14				1
CN 15, 16, 29, 30		K IF 1 104BA024		4
		K1KAU3AAU329	CONNECTOR	1
		K1K142B00001	CONNECTOR	1
CN 22		K1MY45AA0040	CONNECTOR	1
CN 23, 25		K1MY10AA0040	CONNECTOR	2
CN 27		K1KA40AA0330	CONNECTOR	1
CN 28		K1FB115BA014	CONNECTOR	1
CN 31		K1KAA0AA0244	CONNECTOR	1
CN 33		K1KA62B00003	CONNECTOR	1
CN 34		K1MY14AA0040	CONNECTOR	1
CN 35, 36		K1KA08AA0266	CONNECTOR	2
CN 38		K1KB12A00099	CONNECTOR	1
CN 1000		K1KB40AA0217	CONNECTOR	1
D 1, 3, 4, 13, 14, 15		MA2J72900L	DIODE	6
D 5, 1039		MA3J741E0L	DIODE	2
D 10, 11, 17, 18, 19, 20, 31, 32		B0KB00000044	DIODE	8
D 16, 22, 23, 24, 25, 26, 27, 28, 29, 30		B0BD5R6A0005	DIODE	10
D 21, 1027, 1029		MA2S11100L	DIODE	3
D 1002, 1003		B0JCPD000023	DIODE	2
D 1004, 1006, 1007, 1008.		B0JCMD000014	DIODE	8
1010, 1014, 1016, 1038				
D 1005, 1009, 1015		B0JDAE000004	DIODE	3

D 1019, 1021, 1022, 1023,		MAZ80620ML	DIODE	8
1024, 1025, 1026, 1043				-
D 1028		B2ABAM000002	DIODE	1
D 1030, 1031, 1032		B0ADDH000004	DIODE	3
D 1034, 1037		B0JDSD000025	DIODE	2
D 1035		MA781200MI	DIODE	1
D 1036		MAZ81800MI	DIODE	1
F 2 4 5 7 8		K5H202Z00005		5
F 2 6 0		K5H402Z00003		3
F 3, 0, 9		K5H402Z00003		3
F 1000	<u> </u>	K5H153A00001	FUSE, 15A, 65V	1
F 1001, 1002	<u> </u>	K5H123Y00001	FUSE, 12A, 65V	2
FL 1, 19, 21, 27		F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	4
FL 2, 3, 8, 9, 10, 11, 14, 15,		F1H0J1050022	CAPACITOR, 6.3V, 1µF	22
16, 17, 18, 22, 23, 24,				
25, 26, 28, 29, 30, 41,				
42, 43				40
FL 31, 32, 33, 34, 35, 36,		JOHAAC000061	EMIFILIER	10
37, 38, 39, 40			CPU	1
		C2GBD0000047		1
		C1CB00003032		1
		C1CB00003034		1
IC 3, 6		C0DBZYY00271		2
IC 4		C0CBCBC00137	IC, REGULATOR	1
IC 5		C1CB00002980	LSI	1
IC 11		C1CB00003002	THERMAL SENSOR	1
IC 15		C1CB00003007	LSI	1
IC 18		C3EBDC000073	IC, EEPROM	1
IC 19		C0DBZYY00265	POWER MANAGEMENT SWTICH	1
IC 20, 37, 115, 116		C0JBAZ002422	IC. FET SWITCH	4
IC 21		CODBAJE00005		1
10.22		C1CB00003035		1
				1
10 25				
10 25, 29				2 1
10.20		CUZBZ0000978		1
10.27		C1CB00002790		1
IC 30		C0JBAR000500	IC, SWITCH	1
IC 31, 32, 33		C0EBE0000459	IC	3
IC 34, 1024		C0EBY0000420	VOLTAGE DETECTOR	2
IC 35		C0EBY0000419	VOLTAGE DETECTOR	1
IC 39		C1CB00003000	PCI EXPRESS TO PATA HOST BUS ADAPTER	1
IC 42		C0DBEFE00003	IC	1
IC 45		C1CB00002723	CARDBUS CONTOLLER	1
IC 47		C0JBAB000624	IC	1
IC 49, 84, 119, 1025		C0JBAA000362	IC, LOGIC	4
IC 51		C0JBAA000511	IC	1
IC 52		C0JBAA000254	IC. GATE LOGIC	1
IC 85 1026		C0.IBAE000321		2
		C1CB00002081		1
		C1CD00002901		1
				4
		CUJBAZ002195		4
		C1CB00002210		1
IC 106		C2CBYY000639		1
IC 107, 109, 117		C0JBAZ002192		3
IC 108, 114, 118, 120		C0JBAA000381	IC, LOGIC	4
IC 112		C0DBFYY00042	VOLTAGE REGULATOR	1
IC 1000, 1001, 1003		C0DBALH00003	IC	3
IC 1004		C0DBAYY00281	DC/DC CONTROLLER FOR CPU	1
IC 1005		C0DBAYY00282	DC/DC CONTROLLER FOR GMCH	1
IC 1006		C0DBEFH00002	IC, REGULATOR	1
IC 1008		C0EBE0000333	IC	1
IC 1009		C0ABZA000047	IC. AMP	1
	1		- ,	

IC 1010		C0DBDJH00009	IC, LINER	1
IC 1014		C0ABBA000093	IC, OP AMP	1
IC 1018		C0JBAD000195	IC	1
JK 1000	$\mathbb{A}$	K2EEYB000001	JACK	1
L 3, 5, 7, 11		J0JHC0000078	DC POWER LINE BEADS	4
L 6, 26		G1C1R0MA0289	DC POWER LINE INDUCTOR	2
L 13		D0GBR00J0004	RESISTOR, 1/10W, 0O	1
L 14, 15, 16, 17, 48		G1C470MA0330	DC POWER LINE INDUCTOR	5
L 18, 19, 20, 21, 22		J0JYC0000098	DC POWER LINE BEADS	5
L 23		G1C1R0MA0380	DC POWER LINE INDUCTOR	1
L 24		J0JJC0000022	DC POWER LINE BEADS	1
L 25		G1C100MA0380	DC POWER LINE INDUCTOR	1
L 28		G1C4R7MA0077	INDUCTOR	1
L 29, 30, 31, 33		J0JGC0000038	CHIP BEADS	4
L 32, 47, 64, 65		J0JJC0000021	INDUCTOR	4
L 34, 35, 37, 39		J0ZZB0000080	IDUCTOR, COMMON MODE FILTER	4
L 40, 55, 56		J0JDC0000105	CHIP BEADS	3
L 41. 51. 52. 57. 58		J0JHC0000074	INDUCTOR	5
L 45		G1BYYYY00009	INDUCTOR	1
L 46, 49, 50, 53, 54, 59.		J0MAB0000200	INDUCTOR	13
60, 61, 62, 100, 101,				-
L 63		J0MAB0000116	INDUCTOR	1
L 66		G1C100Z00013	INDUCTOR	1
L 67, 68, 69, 70, 71, 72,		J0JCC0000396	RESISTOR, 1/16W, 1200	8
73,74				
L 85, 87, 89, 91, 93		J0MAB0000220	COMMON MODE FILTER	5
L 95, 96		J0JCC0000078		2
L 99		D0GA470JA023	RESISTOR, 1/16W, 470	1
L 1000, 1001		G1CR56ZA0140	INDUCTOR	2
L 1002, 1006		G1C2R8MA0240	COIL	2
L 1003, 1010		G1C4R7MA0240	CHOK COIL	2
L 1004		G1CR82M00006	COIL	1
L 1005		G1CR88ZA0140	INDUCTOR, COIL	1
L 1009		G1A4R7PA0001	CHOKE COIL	1
L 1011, 1012		J0JKC0000007	INDUCTOR	2
L 1013		G1A160HA0032	COIL	1
PA 1	Δ	D4FB1R100015	OVER CURRENT PROTECTOR	1
Q 1, 2, 3, 43, 45, 48, 50, 52, 1010, 1014, 1019, 1022, 1037, 1040, 1092, 1111, 1112, 1119, 1128, 1129		B1CFGD000023	TRANSISTOR	20
Q 5, 13, 28, 34, 53, 1009, 1025, 1046, 1047, 1076, 1077, 1078, 1079, 1082, 1091, 1099, 1100, 1101, 1107, 1114, 1118, 1120, 1130 1131		B1GBCFJN0037	TRANSISTOR	24
Q 6, 14, 17, 31, 47, 1043, 1044, 1075, 1113, 1117		B1GDCFNN0031	TRANSISTOR	10
Q 7, 9, 11, 29, 40, 54		B1MBDCA00004	TRANSISTOR	6
Q 8		XP0421300L	TRANSISTOR	1
Q 12, 33, 35, 1036, 1060, 1062, 1065, 1067, 1068, 1069, 1070, 1072, 1080, 1081, 1083, 1102, 1122, 1123, 1124, 1125, 1126, 1127, 1132, 1132		B1GBCFNN0042	TRANSISTOR	24
Q 15		2SB0766ARL	TRANSISTOR	1
Q 16, 32, 1015, 1051,		B1MBFDG00001	FET	6
1058, 1121				
Q 18		XP0450100L	TRANSISTOR	1
Q 20, 30	ļ	BIGECENN0019	TRANSISTOR	2
Q 22, 23, 24, 25, 26		XP0411500L	TRANSISTUR	5

Q 27	E	B1DHDC000028	TRANSISTOR	1
Q 1001, 1003	E	B1CFRD000009	TRANSISTOR	2
Q 1004, 1005, 1006, 1007, 1024, 1038, 1057, 1108, 1110, 1115, 1116	E	B1CFRD000020	FET	11
Q 1012, 1013, 1017, 1018, 1021, 1023, 1039, 1041, 1097	E	B1CFRD000014	FET	9
Q 1052, 1084, 1085, 1089, 1093	E	B1CHRD000001	TRANSISTOR	5
Q 1094	E	B1MBEDA00008	TRANSISTOR	1
R 1, 201, 202, 220, 427, 428, 553, 702	[	D1H81034A024	RESISTOR ARRAY	8
R 2, 3, 7, 29, 30, 42, 43, 44, 207, 289, 364, 489, 511, 512, 650, 766	ſ	D0GA102JA023	RESISTOR, 1/16W, 1KO	16
R 4	[	D0GA510JA023	RESISTOR, 1/16W, 510	1
R 5	[	D1H85104A024	RESISTOR ARRAY	1
R 8, 22, 23, 27, 28, 36, 46, 63, 64, 65, 66, 72, 73, 91, 92, 93, 94, 95, 96, 98, 99, 100, 101, 102, 133, 134, 135, 138, 142, 144, 145, 146, 152, 162, 190, 191, 196, 197, 229, 247, 266, 268, 294, 313, 314, 426, 461, 462, 471, 472, 474, 476, 502, 518, 519, 522, 608, 610, 614, 615, 616, 630, 642, 648, 651, 661, 683, 684, 690, 691, 706, 762, 797, 1001, 1003, 1018, 1054, 1113, 1138, 1140, 1142, 1143, 1204, 1293		D0GAR00J0005	RESISTOR, 1/16W, 0O	84
R 10, 11, 33, 360, 362, 369, 371	[	D1BA1000A023	RESISTOR, 1/16W, 1000	7
R 13, 34, 76, 78, 80, 1026, 1085, 1091	[	D1BA1001A023	RESISTOR, 1/16W, 1KO	8
R 14, 35, 339	[	D1BA2001A023	RESISTOR, 1/16W, 2KO	3
R 17, 18	[	D1BA27R4A023	RESISTOR, 1/16W, 27.40	2
R 19, 20, 299, 509	[	D1BA54R9A023	RESISTOR, 1/16W, 54.90	4
R 24	[	D1BA68R0A023	RESISTOR, 1/16W, 68O	1
R 25, 166, 171, 298, 304	[	D0GA560JA023	RESISTOR, 1/16W, 56O	5
R 26, 488, 790, 1049, 1050, 1061, 1062, 1097, 1098, 1111, 1112, 1157, 1158, 1170, 1171	[	D0GA100JA023	RESISTOR, 1/16W, 10O	15
R 31, 1213, 1216, 1219, 1234	[	D0GA562JA023	RESISTOR, 1/16W, 5.6KO	5
R 32	[	D1BA2210A023	RESISTOR, 1/16W, 2210	1
R 37, 231, 295, 301	[	D1BA24R9A023	RESISTOR, 1/16W, 24.90	4
R 49, 50, 496	[	D1BA1002A023	RESISTOR, 1/16W, 10KO	3
R 51, 264, 317, 581, 594, 597, 639, 640, 647, 670, 692, 777, 1069, 1139, 1192, 1194, 1195, 1196, 1197, 1198, 1200, 1206, 1207	[	D0GA101JA023	RESISTOR, 1/16W, 1000	23
R 62, 77, 402, 404, 493	[	D1BA4990A023	RESISTOR, 1/16W, 4990	5
R 74, 75	[	D1BA80R6A023	RESISTOR, 1/16W, 80.60	2
R 79, 1024, 1246, 1247	[	D1BA3001A022	RESISTOR, 1/16W, 3KO	4
R 85, 86	[	D0GA222JA023	RESISTOR, 1/16W, 2.2KO	2
R 89, 446, 452, 455, 459, 463, 465, 467	[	D1H8R0040009	JUMPER	8
R 97	[	D1BA2401A023	RESISTOR, 1/16W, 2.4KO	1

R 103, 107, 363, 365, 366,	D0GA472JA023	RESISTOR, 1/16W, 4.7KO	18
424, 425, 445, 499, 500,			
503, 505, 506, 604, 606,			
R 105, 161, 177, 178, 182,	D0GA103JA023	RESISTOR, 1/16W, 10KO	78
184, 186, 193, 239, 243,			-
271, 275, 276, 282, 297,			
302, 310, 318, 373, 375,			
379, 387, 388, 397, 419,			
423, 485, 486, 498, 521,			
530, 531, 532, 546, 554,			
559, 561, 562, 563, 566,			
568, 570, 571, 582, 589,			
590, 595, 632, 635, 638,			
643, 645, 660, 669, 672,			
673, 707, 759, 775, 788, 780, 702, 703, 1008			
1052 1057 1087 1100 1052 1057 1087 1100			
1108 1121 1122 1133			
1160, 1203, 1222, 1133,			
1255, 1291			
R 109 128 130 165 320	D1BA1210A023	RESISTOR 1/16W 1210	25
721 722 723 724 725	12/12/10/1020		20
726, 727, 728, 729, 730.			
745, 746, 747, 748, 749,			
750, 751, 752, 753, 754			
R 116, 129, 131, 134, 145,	D0GAR00J0005	RESISTOR, 1/16W, 00	6
147			
R 127	D1BA49R9A023	RESISTOR, 1/16W, 49.90	1
R 137, 141, 147, 148, 587,	D0GBR00J0004	RESISTOR, 1/10W, 0O	16
588, 1014, 1032, 1033,			
1034, 1035, 1070, 1072,			
R 139, 140, 143	D0GA1R0JA023	RESISTOR, 1/16W, 1.00	3
R 160	D0GA753JA023	RESISTOR, 1/16W, 75KO	1
R 163	D0GA2R2JA023	RESISTOR, 1/16W, 2.20	1
R 164	D0GA4R7.IA023	RESISTOR 1/16W 4530	1
R 167 168 170 172 173	D1HA5608A010	RESISTOR 1/16W 560	6
175	2 11 / 10 000 / 10 10		Ũ
R 169, 174, 439	D1H85604A024	RESISTOR ARRAY	3
R 187, 293, 442, 478, 480,	D0GA105JA023	RESISTOR, 1/16W, 1MO	22
481, 490, 584, 585, 586,			
666, 1134, 1141, 1176,			
1181, 1189, 1224, 1285,			
1286. 1288. 1289. 1290	D411000044004		10
R 188, 189, 283, 284, 675, 676, 677, 679, 670, 690	D1H83304A024	RESISTOR ARRAY	10
B 195 215 483 555 564	D0GA330.IA023	RESISTOR 1/16W 330	16
576, 577, 592, 619, 620.			Ĭ
621, 622, 626, 627, 681,			
682			
R 200	D1BA4750A023	RESISTOR, 1/16W, 4750	1
R 216, 227, 272, 273, 274,	D1HA1038A010	RESISTOR, 1/16W, 10KO	10
533, 534, 535, 541, 593			
R 217, 218, 219	DUGA150JA023	RESISTOR, 1/16W, 150	3
R 226	D1BA22R6A023	RESISTOR, 1/16W, 22.60	1
R 228, 251	D1H84724A024	RESISTOR ARRAY	2
R 238, 244, 245, 252, 259,	D0GA104JA023	RESISTOR, 1/16W, 100KO	41
261, 263, 315, 357, 374,			
416, 417, 421, 422, 466,			
408, 514, 515, 538, 539,			
545, 547, 572, 596, 601, 605, 640, 653, 700, 763			
000, 049, 000, 700, 703, 767, 783, 705, 1005			
1047 1114 1124 1175			
1223 1225 1226			
R 250	D0GA511JA023	RESISTOR, 1/16W, 5100	1
R 253, 255	D1BA3241A023	RESISTOR, 1/16W, 3.24KO	2

R 254, 256	D1BA4530A023	RESISTOR, 1/16W, 4530	2
R 257	D0GA121JA023	RESISTOR, 1/16W, 1200	1
R 258	D0GA470JA023	RESISTOR, 1/16W, 47O	1
R 260, 277	D0GD1R0JA052	RESISTOR, 1/8W, 10	2
R 262, 646	D0GA334JA023	RESISTOR, 1/16W, 330KO	2
R 265	D1BA2431A023	RESISTOR, 1/16W, 2.43KO	1
R 285, 287	D1BA3323A023	RESISTOR, 1/16W, 332KO	2
R 290	D0GA106JA023	RESISTOR, 1/16W, 10MO	1
R 291, 292, 358, 1058,	D0GA203JA023	RESISTOR, 1/16W, 20KO	6
1105, 1166	D4D450D04000		
R 303	D1BA56R0A023	RESISTOR, 1/16W, 560	1
R 316, 768, 1010, 1106, 1155, 1165, 1221, 1263	DUGA473JA023	RESISTOR, 1/16W, 47KO	8
R 319, 401, 403, 406, 407, 623, 624, 625	D1BA1500A023	RESISTOR, 1/16W, 1500	8
R 338	D1BA7150A023	RESISTOR, 1/16W, 715O	1
R 340	D1BA1271A023	RESISTOR, 1/16W, 1.27KO	1
R 359, 361, 368, 370	D1BA40R2A023	RESISTOR, 1/16W, 40.20	4
R 367, 715, 720, 739, 744	D1BA2400A023	RESISTOR, 1/16W, 2400	5
R 405	D1BA2490A023	RESISTOR, 1/16W, 2490	1
R 441, 1086	D1BA5101A023	RESISTOR, 1/16W, 5.1KO	2
R 479	D0GA512JA023	RESISTOR, 1/16W, 5.1KO	1
R 492	D1BA4991A023	RESISTOR, 1/16W, 4.99KO	1
R 494	D1H87504A024	RESISTOR ARRAY	1
R 495, 497, 504, 507, 508,	D1BA3901A023	RESISTOR, 1/16W, 3.9KO	6
R 510	D0GA331JA023	RESISTOR 1/16W 3300	1
R 520 703 704 791	D1BA1002A022	RESISTOR 1/16W 10KO	9
1038, 1039, 1056, 1169,			Ū.
R 536, 556, 644, 652	D1H81044A024	RESISTOR, 1/16W, 100KO	4
R 548	D0GA471JA023	RESISTOR, 1/16W, 4700	1
R 550, 551	D1H82214A024	RESISTOR, 1/16W, 2200	2
R 552	D0GA181JA023	RESISTOR, 1/16W, 1800	1
R 573, 701, 1156, 1180, 1183, 1188, 1228, 1232	D0GA474JA023	RESISTOR, 1/16W, 470KO	8
R 598, 709	D1H84734A024	RESISTOR ARRAY	2
R 600, 603	D0GA682JA023	RESISTOR, 1/16W, 6.8KO	2
R 664.665	D1BA6041A023	RESISTOR. 1/16W. 6.04KO	2
R 705, 1125, 1168	D1BA3002A022	RESISTOR, 1/16W, 30KO	3
R 711, 713, 716, 718, 735,	D1BA2371A023	RESISTOR, 1/16W, 2.37KO	8
R 712, 714, 717, 719, 736,	D1BA5491A023	RESISTOR, 1/16W, 5.49KO	8
R 731, 732, 733, 734, 755,	D1BA60R4A023	RESISTOR, 1/16W, 60.40	8
756, 757, 758 R 769	D0GA154JA023	RESISTOR, 1/16W, 150KO	1
R 1006	D1BA6801A023	RESISTOR, 1/16W, 6.8KO	1
R 1007, 1082	D1BA4022A022	RESISTOR, 1/16W, 40.2KO	2
R 1011	D1BA3093A023	RESISTOR, 1/16W, 309KO	1
R 1012	D1BA9311A023	RESISTOR, 1/16W, 9.31KO	1
R 1013	D1BA2151A023	RESISTOR, 1/16W, 2.15KO	1
R 1015	D1BA2000A023	RESISTOR, 1/16W, 2000	1
R 1016	D1BA2550A023	RESISTOR, 1/16W, 2550	1
R 1021	D1BA1821A023	RESISTOR, 1/16W, 1.82KO	1
R 1027, 1029, 1053, 1071,	D0GB100JA065	RESISTOR, 1/10W, 100	7
R 1028, 1079	D0GB101JA065	RESISTOR, 1/10W 1000	2
R 1030, 1031, 1220	D0GB3R3JA065	RESISTOR, 1/10W, 3.30	3
R 1036, 1037, 1092	D1BA1501A023	RESISTOR, 1/16W 1.5KO	3
R 1040 1041	D1JB1M00A001	RESISTOR 1W 1mO	2
B 1042 1043	D1BA10R0A023	BESISTOR 1/16W 100	2
R 1045 1119 1120 1123	D1BDR0220001	RESISTOR 1/8W 0.0220	9
1149, 1153, 1154, 1172, 1283			Ŭ

R 1051, 1099, 1136, 1159	D0GA153JA023	RESISTOR, 1/16W, 15KO	4
R 1055	D1BA3161A023	RESISTOR, 1/16W, 3.16KO	1
R 1059	D1BA1602A022	RESISTOR, 1/16W, 16KO	1
R 1060, 1126	D1BA1802A023	RESISTOR, 1/16W, 18KO	2
R 1065	D1BDR0470002	RESISTOR. 1/8W. 0.0470	1
R 1066, 1067, 1116, 1117,	D1BDR0330001	RESISTOR. 1/8W. 0.0330	8
1174, 1252, 1253, 1284			-
R 1068	D1ZZ00000093	RESISTOR, 1W, 1mO	1
R 1088, 1163	D1BA6201A022	RESISTOR, 1/16W, 6.2KO	2
R 1089, 1235	D1BA1503A023	RESISTOR, 1/16W, 150KO	2
R 1090	D1BA6981A023	RESISTOR, 1/16W, 6.98KO	1
R 1093, 1231	D1BA1103A022	RESISTOR, 1/16W, 110KO	2
R 1094, 1095, 1118, 1182	D1BDR018A099	RESISTOR, 1/3W, 0.0180	4
R 1104	D1BA4702A023	RESISTOR, 1/16W, 47KO	1
R 1109, 1209	D1BA1502A022	RESISTOR, 1/16W, 15KO	2
R 1110	D1BA1202A023	RESISTOR, 1/16W, 12KO	1
R 1115	D0GA221JA023	RESISTOR, 1/16W, 2200	1
R 1128, 1130, 1131, 1132,	D0GA223JA023	RESISTOR, 1/16W, 22KO	6
1199, 1262	D1D456014022	DECISTOR 1/16/W 5 6KO	2
R 1150, 1151	D1BA3001A023		2 1
R 1152	D1BA1302A023	RESISTOR, 1/16W, 13KU	1
R 1102, 1214, 1218	D1BA1003A022		3
R 1104	D1BA2002A022	RESISTOR, 1/16W, 20KO	1
R 1107	D1BA1301A022		7
1239 1240 1241	DIBDRI00002	RESISTOR, 1/8W, 0.10	1
R 1201, 1202	D0GD222JA052	RESISTOR, 1/8W, 2.2KO	2
R 1205	D1ZZ00000046	RESISTOR, 1W, 5mO	1
R 1212	D1BDR4700001	RESISTOR, 1/8W, 0.47O	1
R 1215, 1217	D1BB1503A074	RESISTOR, 1/10W, 150KO	2
R 1233	D1BA3652A022	RESISTOR, 1/16W, 36.5KO	1
R 1243	D1BB1623A075	RESISTOR, 1/10W, 162KO	1
R 1244	D1BB1692A075	RESISTOR, 1/10W, 16.9KO	1
R 1248, 1249	D1BDR0680001	RESISTOR, 1/8W, 0.0680	2
R 1265, 1266	D0GD122JA052	RESISTOR, 1/16W, 1.2KO	2
T 1, 2	G5BYC0000015	TRANCE	2
X 1	H0J143500042	OSCILLATOR, 14.375MHz	1
X 2	H0J327200206	CRYSTAL OSCILLATOR	1
X 3	H0J245500046	OSCILLATOR, 24.576MHz	1
X 4, 6	H0J250500027	OSCILLATOR, 25MHz	2
X 5	H2D200500011	CRYSTAL OSCILLATOR	1
X 7	H0J300500021	CRYSTAL OSCILLATOR	1
ZA 1, 2, 3, 4, 1001, 1002	K1YGZZ000068	STUD	6
C 3003, 3014, 3015, 3028, 3034, 3035, 3050, 3051, 3053	F1G1A104A014	CAPACITOR, 10V, 0.1µF	9
C 3004, 3042, 3044	F1G0J105A001	CAPACITOR, 6.3V, 1µF	3
C 3005, 3006, 3043	F1G1H102A496	CAPACITOR, 50V, 1000pF	3
C 3007, 3008, 3019, 3020	F1L0J107A016	CAPACITOR, 6.3V, 100µF	4
C 3009, 3017, 3041	F1H1A1050015	CAPACITOR, 10V, 1µF	3
C 3010, 3033, 3052	F1J0J106A016	CAPACITOR, 6.3V, 10µF	3
C 3016, 3027	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	2
C 3023, 3024, 3025, 3054	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	4
C 3031, 3032	F1G0J334A001	CAPACITOR, 6.3V, 0.33µF	2
C 3036	F1G1C104A042		1
C 3037, 3038	F1G1H1010005		2
C 3039, 3040	F1H1A225A039		2
CN 3000	K1KA30AA0184		1
D 3001, 3002	B3ACB0000207		2
			1
10 3052	C1CB00002983	LOI	1

IC 3053	C1AB00002507	IC, AUDIO POWER AMPLIFIER	1
IC 3054	C0CBCBC00181	IC	1
JK 3003, 3004	K2HC1YYB0040	AUDIO JACK	2
L 3043, 3044, 3045, 3046,	J0JBC0000015	CHIP BEADS	7
3047, 3048, 3049			
Q 3016	B1GBCFNN0042	TRANSISTOR	1
Q 3017	B1GBCFJN0037	TRANSISTOR	1
R 3001, 3003, 3046, 3047	D0GA203JA023	RESISTOR, 1/16W, 20KO	4
R 3005, 3027, 3036, 3037,	D0GAR00J0005	RESISTOR, 1/16W, 0O	5
3049			
R 3006	D0GDR00J0004	RESISTOR, 1/8W, 00	1
R 3009, 3011	D0GA562JA023	RESISTOR, 1/16W, 5.6KO	2
R 3010, 3012, 3026	D0GA103JA023	RESISTOR, 1/16W, 10KO	3
R 3014	D0GA333JA023	RESISTOR, 1/16W, 33KO	1
R 3015, 3017	D0GA153JA023	RESISTOR, 1/16W, 15KO	2
R 3016, 3018	D0GA243JA023	RESISTOR, 1/16W, 24KO	2
R 3021, 3022	D1BA27R4A023	RESISTOR, 1/16W, 27.40	2
R 3023	D0GA1R0JA023	RESISTOR, 1/16W, 1.00	1
R 3024, 3043	D1BA2671A023	RESISTOR, 1/16W, 2.67KO	2
R 3025	D0GA330JA023	RESISTOR, 1/16W, 330	1
R 3028	D1BA2002A023	RESISTOR, 1/16W, 20KO	1
R 3030, 3031	D0GA392JA023	RESISTOR, 1/16W, 3.9KO	2
R 3032, 3033	D0GA4R7JA023	RESISTOR, 1/16W, 4530	2
R 3034	D0GA471JA023	RESISTOR, 1/16W, 4700	1
R 3035	D0GA273JA023	RESISTOR, 1/16W, 2730	1
R 3042	D0GA100JA023	RESISTOR 1/16W 100	1
R 3045	D1BA3922A023	RESISTOR 1/16W 39.2KO	1
B 3052 3055	D0GBR00.10004	RESISTOR 1/10W 00	2
R 3061 3062		RESISTOR 1/16W 1000	2
SW 3001	K0D112B00071	SW	1
SERIAL RCR	ROD 112000071	517	I
	K1KA10AA0033	CONNECTOR	1
CN 4000	K1EA200BA004		1
	RTI AZU9DAUU4	CONNECTOR	1
	E1110 110 E0022		4
C 4101	F1H0J1050022	CAPACITOR, 0.3V, THE	1
CN 4100	K INT TUBAUTUT	CONNECTOR	1
ON 4404			
CN 4101	K1MY12BA0101	CONNECTOR	1
CN 4101 SW 4102, 4103	K1MY12BA0101 EVQPLDA15	SWITCH	2
CN 4101 SW 4102, 4103 SW LED PCB	K1MY12BA0101 EVQPLDA15	SWITCH	2
CN 4101     SW 4102, 4103       SW LED PCB     C 4202, 4203, 4204, 4205	K1MY12BA0101 EVQPLDA15 F1G1H222A496	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF	4
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR	4
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR	4 1 2 4 1 2
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE	4 1 2 4 1 2 6
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4204, 4205	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVORLDA15	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE	4 1 2 4 1 2 6
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE SWITCH	4 1 2 4 1 2 6 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SW 4200     SD PCB	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE SWITCH	1 2 4 1 2 6 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4302	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 E401U220A540	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF	1 2 4 1 2 6 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 E4045402000	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF	1 2 4 1 2 6 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4304	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 F1G1E103A062 KAM/(55A0101)	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 33pF CAPACITOR, 25V, 0.01µF	1 2 4 1 2 6 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     C 4304	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 F1G1E103A062 K1MY15BA0101	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR	1 2 4 1 2 6 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4304     CN 4300     CN 4301	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 F1G1E103A062 K1MY15BA0101 K1NA09E00073	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR	1 2 4 1 2 6 1 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     CN 4301     D 4301	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 F1G1E103A062 K1MY15BA0101 K1NA09E00073 B3ACB0000020	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR	1 2 4 1 2 6 1 1 1 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4304     CN 4300     CN 4301     D 4300	K1MY12BA0101 EVQPLDA15 F1G1H222A496 K1KA20BA0060 K1KA02BA0014 B3ABB0000210 EVQPLDA15 F1H1A1050015 F1G1H330A542 F1G1E103A062 K1MY15BA0101 K1NA09E00073 B3ACB0000020 UNR9113J0L	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR DIODE TRANSISTOR	1 2 4 1 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4304     CN 4300     CN 4301     D 4300     R 4300	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000	1 2 4 1 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4304     CN 4300     CN 4301     D 4300     R 4300     R 4301	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000	1 2 4 1 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4303     C 4304     CN 4300     CN 4301     D 4301     Q 4300     R 4300     R 4301     SW 4301	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023     K0ZZ0000619	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000 SW	1   2   4   1   2   6   1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     CN 4300     CN 4301     D 4301     Q 4300     R 4300     R 4301     SW 4301     PWR BATTERY PCB	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023     K0ZZ00000619	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000 SW	1   2   4   1   2   6   1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     CN 4301     D 4301     Q 4300     R 4300     R 4301     SW 4301	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023     K0ZZ00000619	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000 SW	1   2   4   1   2   6   1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     CN 4300     CN 4301     D 4301     Q 4300     R 4301     SW 4301     PWR BATTERY PCB     CN 4400     D 4401	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1MY15BA0101     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023     K0ZZ0000619     K1KA05BA0014     B3ABB0000210	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000 SW CONNECTOR DIODE	1   2   4   1   2   6   1
CN 4101     SW 4102, 4103     SW LED PCB     C 4202, 4203, 4204, 4205     CN 4200     CN 4202, 4203     D 4200, 4201, 4202, 4203, 4204, 4205     SW 4200     SD PCB     C 4302     C 4303     C 4304     CN 4300     CN 4301     D 4301     Q 4300     R 4301     SW 4301     PWR BATTERY PCB     CN 4400     D 4401     D 4402	K1MY12BA0101     EVQPLDA15     F1G1H222A496     K1KA20BA0060     K1KA02BA0014     B3ABB0000210     EVQPLDA15     F1H1A1050015     F1G1H330A542     F1G1E103A062     K1MY15BA0101     K1NA09E00073     B3ACB000020     UNR9113J0L     D0GD101JA052     D0GA101JA023     K0ZZ0000619     K1KA05BA0014     B3AGB0000210	CONNECTOR SWITCH CAPACITOR, 50V, 2200pF CONNECTOR CONNECTOR DIODE SWITCH CAPACITOR, 10V, 1µF CAPACITOR, 50V, 33pF CAPACITOR, 50V, 33pF CAPACITOR, 25V, 0.01µF CONNECTOR CONNECTOR DIODE TRANSISTOR RESISTOR, 1/8W, 1000 RESISTOR, 1/16W, 1000 SW CONNECTOR CONNECTOR DIODE DIODE	1   2   4   1   2   6   1

CN 6502	K1KA10BA0162	CONNECTOR	1
CN 6503	K1MY10BA0101	CONNECTOR	1
WWAN PCB			
	E1G1C104A042	CAPACITOR 16V 0 1UE	5
7013	1 1010101/012		Ŭ
C 7002	F1G1H221A495	CAPACITOR, 50V, 220pF	1
C 7006, 7007, 7009	F1J0J106A016	CAPACITOR, 6.3V, 10µF	3
C 7010.7011	EEFCX0G151R	CAPACITOR, 2V, 150uF	2
C 7014	F1G1H1010005	CAPACITOR 50V 100pF	1
CN 7000	K1MY52BA0190	CONNECTOR	1
CN 7001	K1NA08E00007		1
CN 7002	K1MV1/BA0101		1
D 7002			1
D 7003			1
			1
JK 7001, 7002, 7003, 7004	KTQZATAE0001		4
L 7000	G1C2R/MA02/3		1
Q 7000	B1GBCFNN0042	TRANSISTOR	1
Q 7001	B1CFGD000023	TRANSISTOR	1
Q 7002	B1GDCFNN0031	TRANSISTOR	1
Q 7003	B1CHRD000001	TRANSISTOR	1
R 7000, 7002	D0GA103JA023	RESISTOR, 1/16W, 10KO	2
R 7001	D1BA1002A023	RESISTOR, 1/16W, 10KO	1
R 7003	D1BB3002A074	RESISTOR, 1/10W, 30KO	1
R 7004	D1BA1001A023	RESISTOR, 1/16W, 1KO	1
R 7005	D1BDR0470002	RESISTOR, 1/8W, 0.0470	1
R 7006	D1BDR0330001	RESISTOR, 1/8W, 0.0330	1
R 7008, 7013	D0GAR00J0005	RESISTOR, 1/16W, 00	2
R 7011.7012	D0GA101JA023	RESISTOR, 1/16W, 1000	2
SW 7000	K0D211A00015	DIP SWITCH	1
ZA 7001 7002	K1YG77000060	SPACER	2
			-
IK 8001 8002	K107A1AE0001	CONNECTOR	2
	RIQZAIAL0001	CONNECTOR	2
WLAN ANTENNAL FCB	K107414E0001	CONNECTOR	2
	KTQZATAE0001	CONNECTOR	2
BIOS PCB HIGH	F1010104040		4
0 0005	F1G1C104A042		1
C 9025	F1J0J106A016		1
CN 9000	K1KA30A00119	CONNECTOR	1
IC 9001	C3FBNY000173	FLASH ROM	1
R 9004	D0GA103JA023	RESISTOR, 1/16W, 10KO	1
R 9022	D1H83304A024	RESISTOR ARRAY	1
BLUETOOTH PCB			
C 5000	F1J0J1060004	CAPACITOR, 6.3V, 10µF	1
C 5001, 5006, 5009	F1G1C104A042	CAPACITOR, 16V, 0.1µF	3
C 5002, 5004	F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 5005, 5008	F1G1E103A062	CAPACITOR, 25V, 0.01µF	2
C 5007	F1G1H220A542	CAPACITOR, 50V, 22pF	1
C 5010	F1G1HR50A543	CAPACITOR, 50V, 0.5pF	1
CN 5000	K1KA10BA0014	CONNECTOR	1
IC 5000, 5003	C0JBAZ002422	IC, FET SWITCH	2
IC 5001	N5HZZ0000056	BLUETOOTH MODULE	1
IC 5002	C0EBE0000460	IC	1
L 5000	J0JHC0000074	INDUCTOR	1
1 5001	.10.1.10.000001	INDUCTOR	1
1 5003	G1C6N8 IA0024		1
0.5000			1
0.5001			1
	DUGA104JA023	RESISTOR, 1/10W, 10UKU	2
R 5002	DUGAR00J0005	RESISTOR, 1/16W, 00	1