PCG-Z505LE/Z505LEK/Z505LS/Z505LSK

SERVICE MANUAL

US Model
Canadian Model

MG ™

i ™ S400
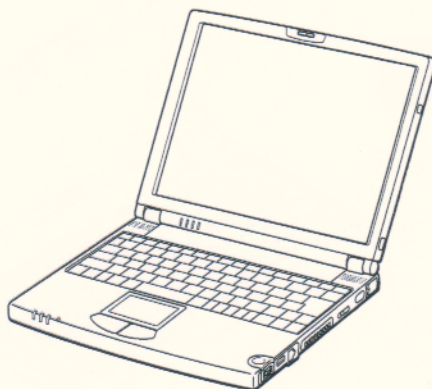
VAIO

Illust : PCG-Z505LSK

NOTEBOOK COMPUTER

SONY ®

9-872-139-11

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

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

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.
Dispose of used battery promptly.
Keep away from children.

CAUTION: Changing the back up battery.
• Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
• If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

✛✛
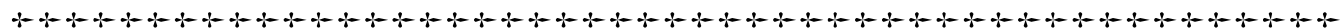
Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

• The temperature of the soldering-iron tip should be about 270C.
• Do not apply the tip more than three times to the same pattern.
• Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

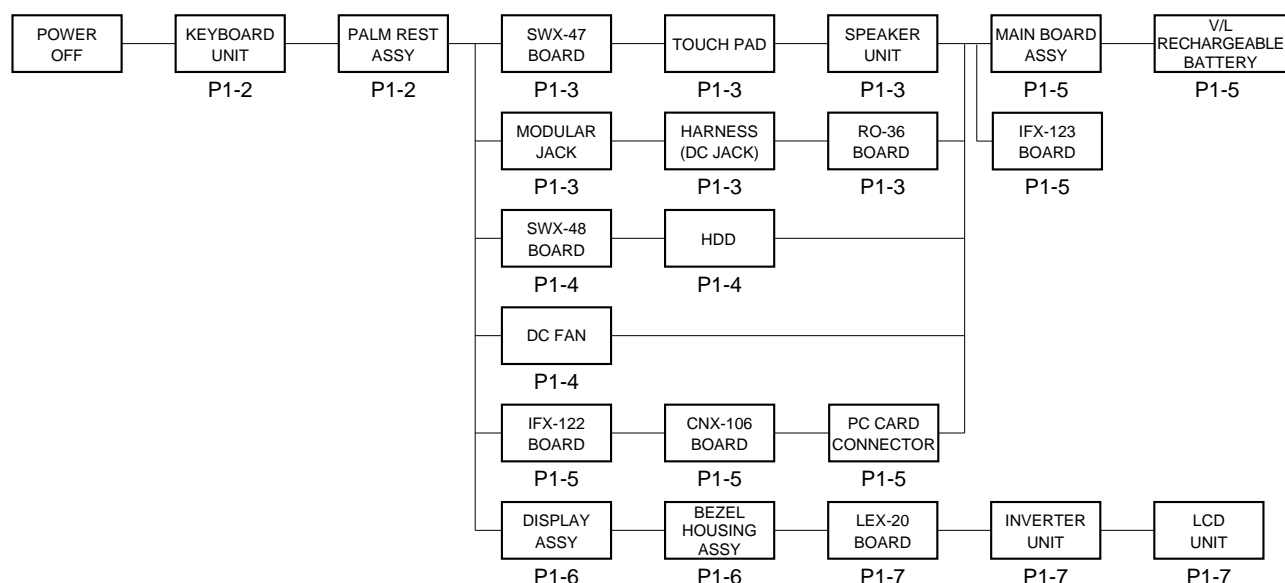**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

• Abbreviations
  UC : US model / Canadian model

1-1. Flowchart

```
POWER        KEYBOARD      PALM REST      SWX-47        TOUCH PAD     SPEAKER       MAIN BOARD    V/L
OFF          UNIT          ASSY           BOARD                       UNIT          ASSY          RECHARGEABLE
                                                                                                 BATTERY
             P1-2          P1-2           P1-3          P1-3          P1-3          P1-5          P1-5

                                          MODULAR       HARNESS       RO-36                       IFX-123
                                          JACK          (DC JACK)     BOARD                       BOARD
                                          P1-3          P1-3          P1-3                        P1-5

                                          SWX-48        HDD
                                          BOARD
                                          P1-4          P1-4

                                          DC FAN
                                          P1-4

                                          IFX-122       CNX-106       PC CARD
                                          BOARD         BOARD         CONNECTOR
                                          P1-5          P1-5          P1-5

                                          DISPLAY       BEZEL         LEX-20        INVERTER      LCD
                                          ASSY          HOUSING       BOARD         UNIT          UNIT
                                                        ASSY
                                          P1-6          P1-6          P1-7          P1-7          P1-7
```

• P XX means pages that appears in this manual.

• Remember that hard disk drives are easily damaged by vibration. Always handle with care.

• When the thermal sheet (Part No. 4-645-921-01) of the computer reaches a certain temperature, it becomes soft, which increases the contact. Therefore, it may be difficult to disassemble the fan at room temperature. In this case, use a dryer or soldering iron to heat up the plate metal contacting the fan.

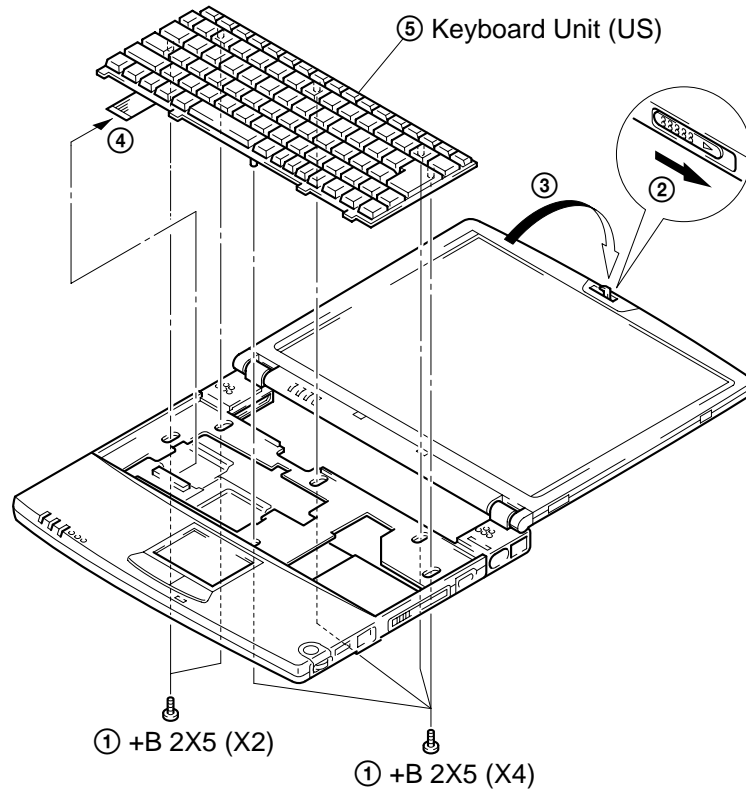In addition, replace the old thermal sheet with a new one in order to keep the heating performance.

1-2. Main Electrical Parts Location Diagram
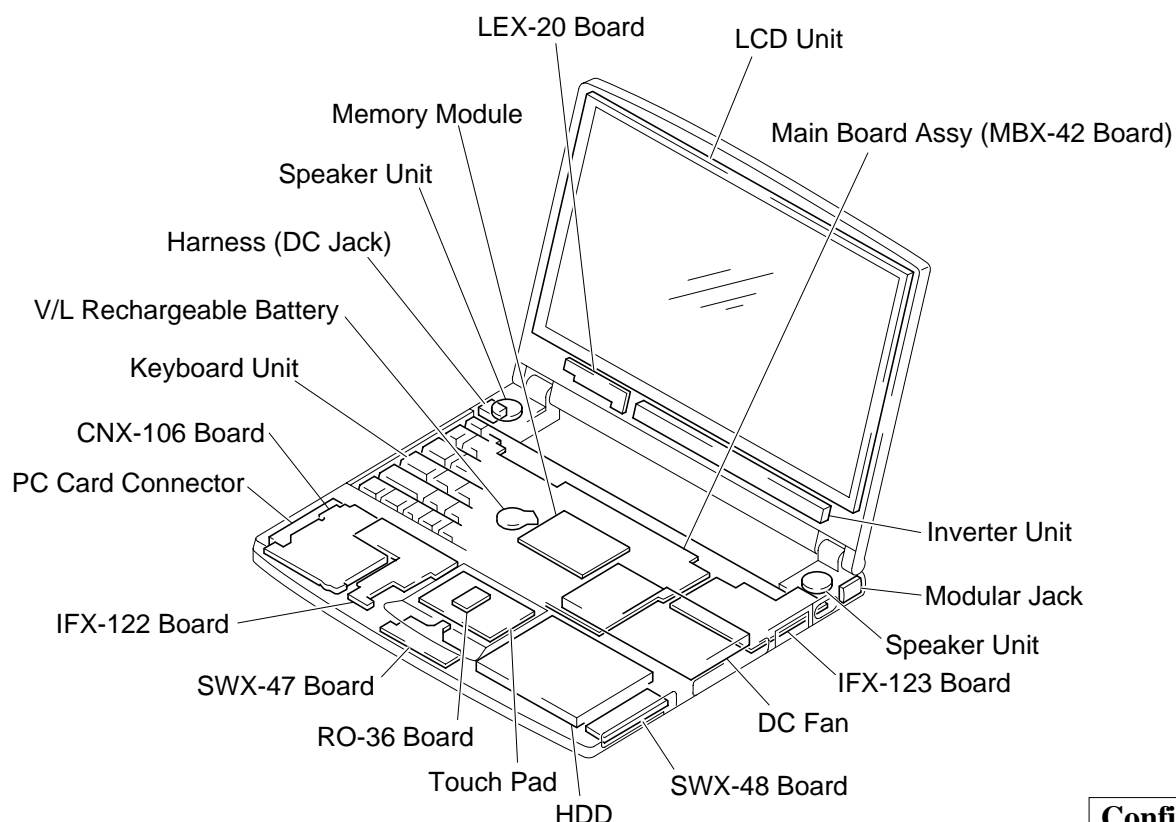
1-3.Removal

1. Keyboard Unit

⑤ Keyboard Unit (US)

③

②

④

① +B 2X5 (X2)

① +B 2X5 (X4)

2. Palm Rest Assembly

Radiation (NN)

⑤ +B 2X5

⑩ Palm Rest ASSY

⑥ +B 2X5

⑤ +B 2X5

⑨

⑨

① Cover (DL)

⑧

② Cover (BPL)

③ Cover (BBL)

③ Escutcheon (AU)

② Cover (BPR)

③ Escutcheon (MU)

① Cover (DR)

③ Cover (BBR)

④ +B 2X5 (X3)

⑦ Escutcheon (F)

④ +B 2X5 (X2)
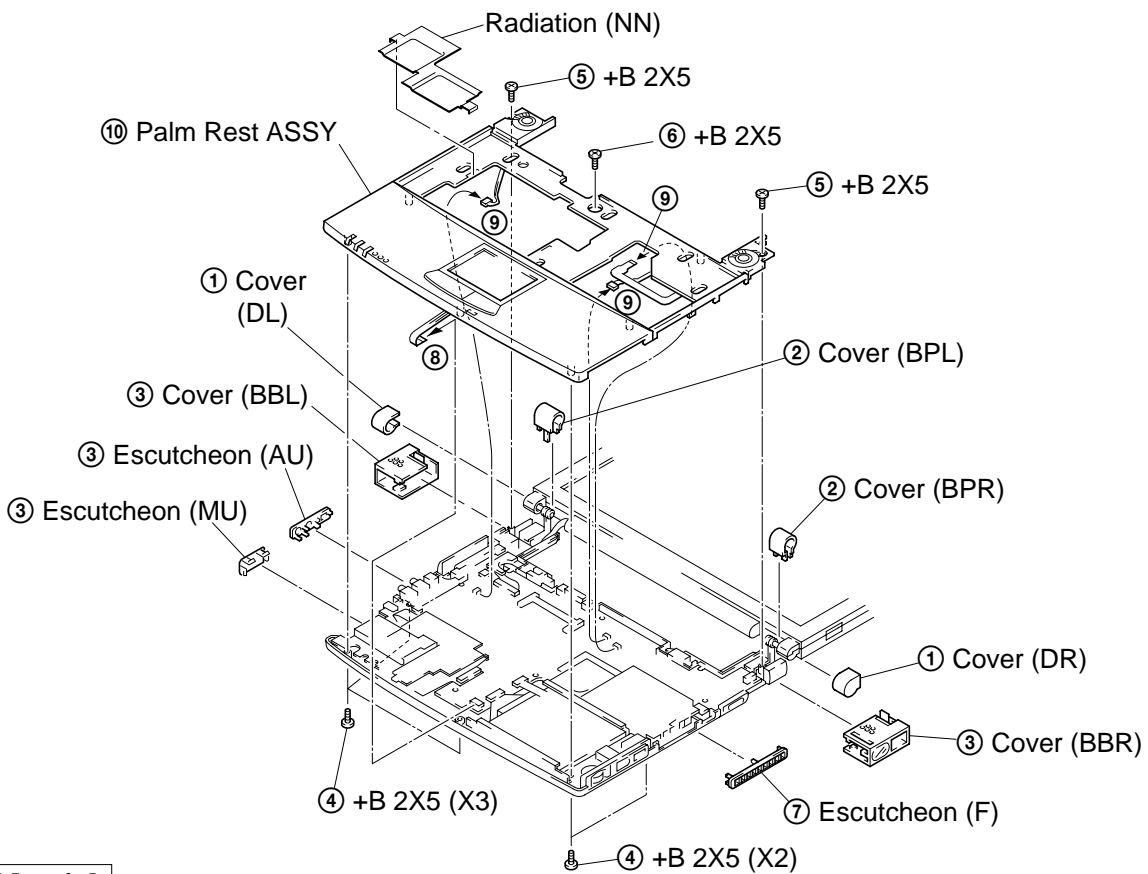
3. SWX-47 Board, Touch Pad, and Speaker Unit

⑦ Escutcheon (PAD)
⑩ Touch Pad
⑨ Insulating Sheet (PAD)
⑧
⑫ Speaker Unit
Double Stick Tape
Bracket (SPK)
⑫ Speaker Unit
Double Stick Tape
Bracket (SPK (R))
Flexible PWB
⑥ Button (PAD)
Cushion (T4)
Flexible Flat Cable (12 Core)
⑤ +B 2X3.5 (X2)
③
Flexible Flat Cable (8 Core)
④ SWX-47 Board
②
① +B 2X3.5 (X2)
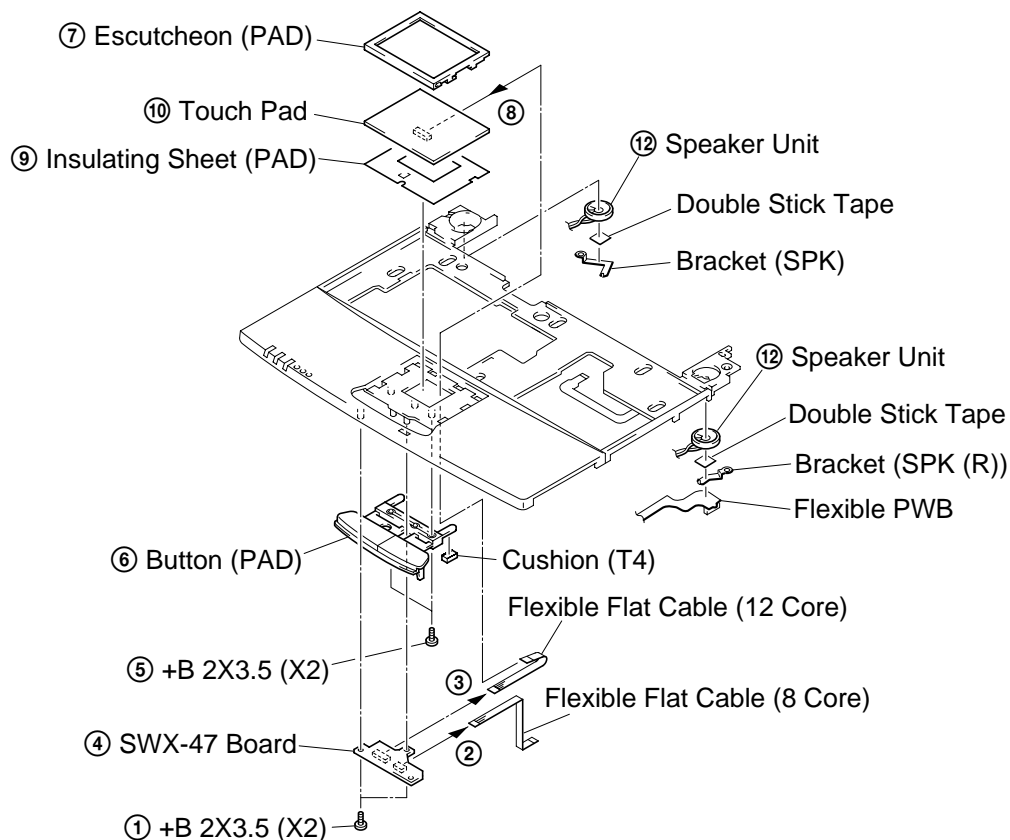
4. Modular Jack, Harness (DC Jack), and RO-36 Board

⑦ Harness (DC Jack)
④ +B 2X3.5
FPC (CNX-73)
⑤ Holder (Wire)
① +B 2X4
⑥
②
③ Modular Jack
Insuluting Sheet (WJ)
⑧ RO-36 Board

5. HDD, and SWX-48 Board

FPC (HDD)

⑥ B 2X3.5 (X2)

⑧

Bracket (HDDF)

⑦

⑨ +P 3X4 (X2)

⑨ +P 3X4 (X2)

Bracket (HDDR)

④

⑩ HDD

⑤

① +B 2X4

② SWX-48 Board

③ Escutcheon (D)

FPC (14P)

6. DC Fan

① +B 2X3.5 (X5)

②
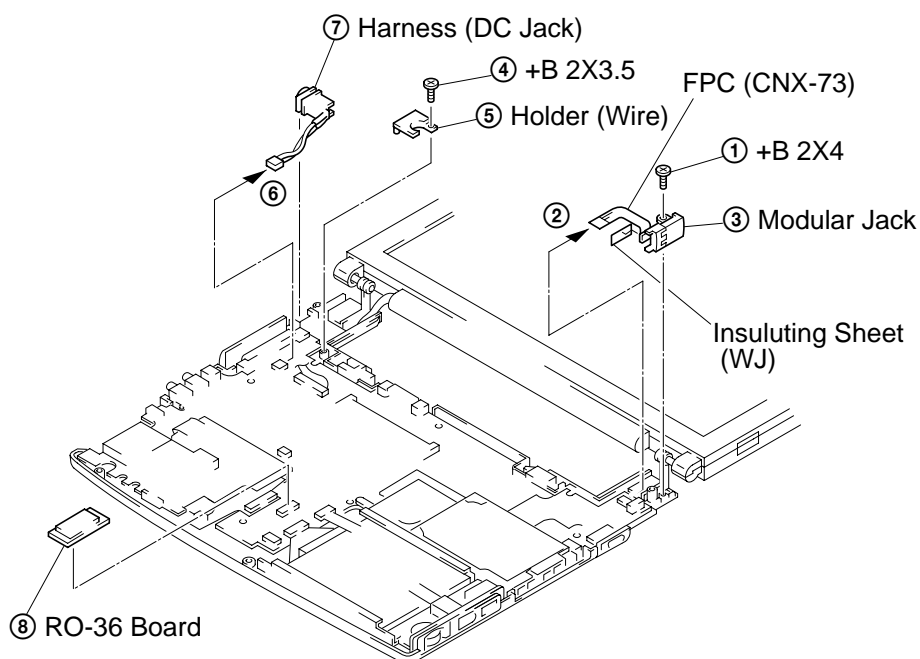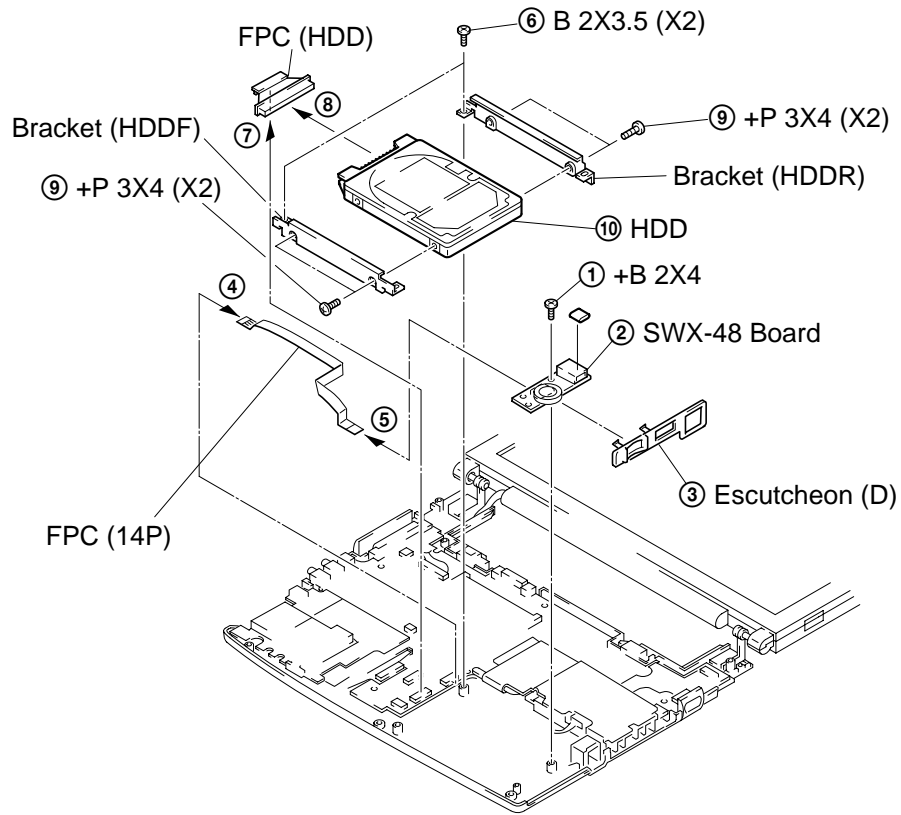
③ DC Fan
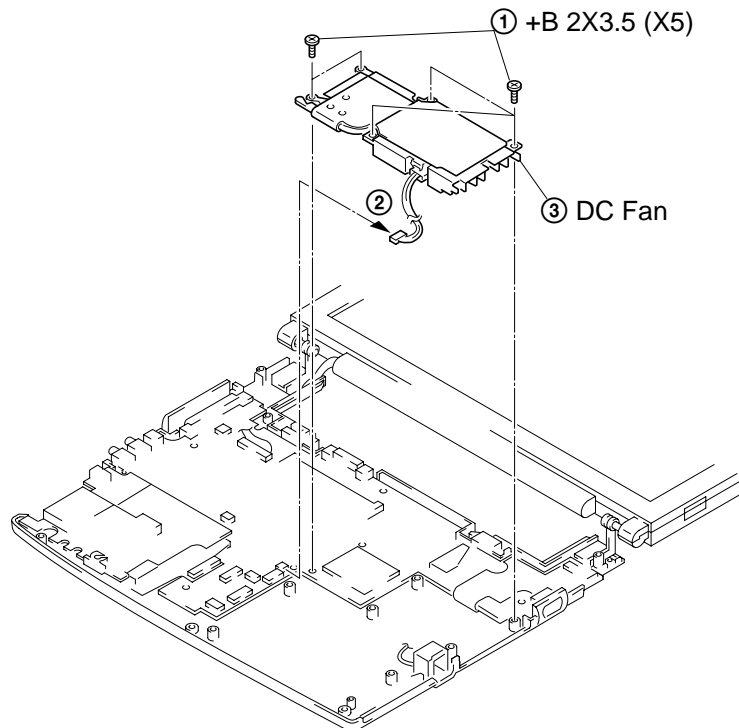
7. IFX-122 Board, CNX-106 Board, and PC Card Connector

FPC (24P)

④

③ IFX-122 Board

① +B 2X3.5 (X3)

①

②

⑤ CNX-106 Board

Cushion (T3)

⑦ +B 2X3.5 (X4)

⑥

Dummy Card

PC Card Connector

⑧
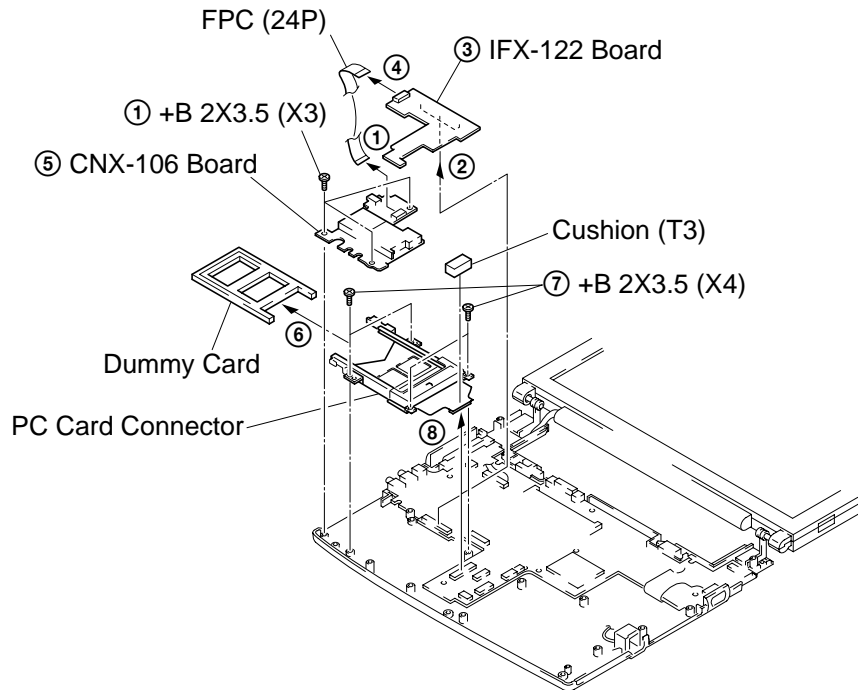
8. Main Board Assembly (MBX-42 Board), IFX-123 Board, V/L Rechargeable Battery, and Memory Module
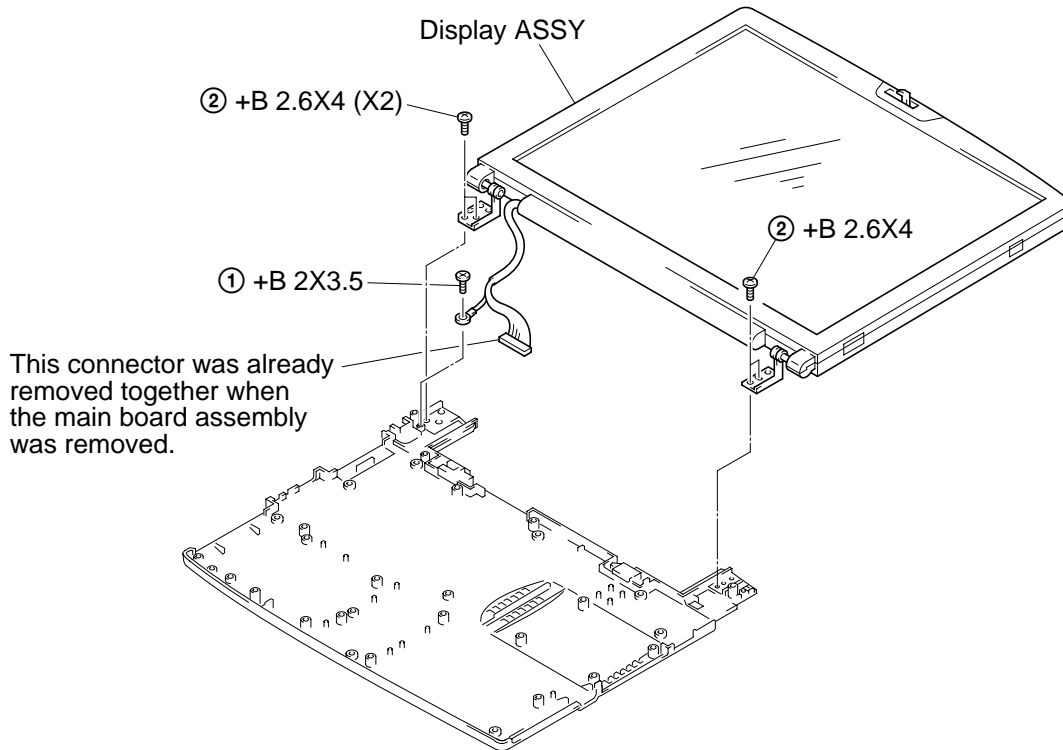
① +B 2X3.5

Main Board ASSY
(MBX-42 Board)

②

⑥ +B 2X3.5 (X2)

Flexible Print PWB

① +B 2X4

④

④

IFX-123 Board

⑪ Escutcheon (POW)

③

⑤

⑨ V/L Rechargeable
Battery

⑦ Bracket (CPU)

⑧

⑩ Lid (PR) ASSY

Memory Module

⑫ INNER RJ-45 Harness

9. Display Assembly

Display ASSY

② +B 2.6X4 (X2)

② +B 2.6X4

① +B 2X3.5

This connector was already
removed together when
the main board assembly
was removed.
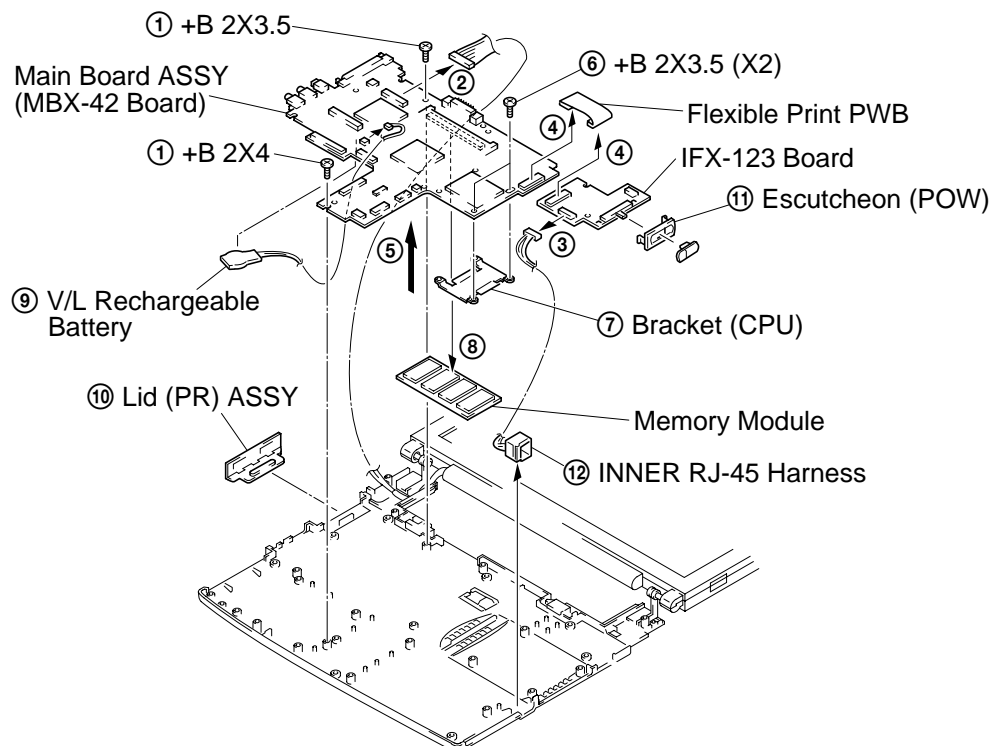
10. Bezel Housing Assembly

Bezel Housing ASSY

⑤ +B 2X5 (X2)

② Hole Blind (C)

③ +B 2X3 (X2)

④ Hole Blind (A)

⑦

⑥ +B 2X4   (X3)

④ Hole Blind (A)

① Cover (DC) ASSY

⑤ +B 2X4 (X2)

④ Hole Blind (B)
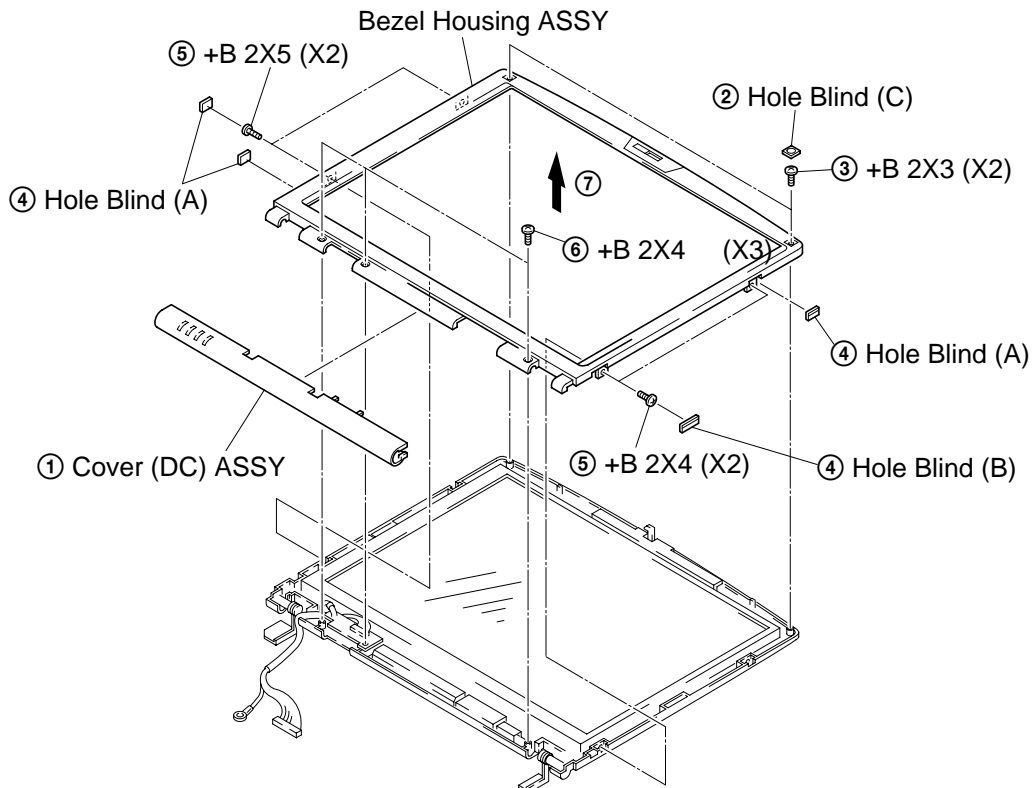
11. LEX-20 Board, Inverter Unit, and LCD Unit

Bracket (LCD-L)

⑫ +B 2X3 (X2)

LCD Unit

⑨

Bracket (LCD-R)

⑪ LCD Harness

⑩

⑥

⑫ +B 2X3 (X2)

① +B 2X4

⑤

⑦

⑧ Inverter Unit

④

②

③ Complete PWB LEX-20

+B 2X5

+B 2X4
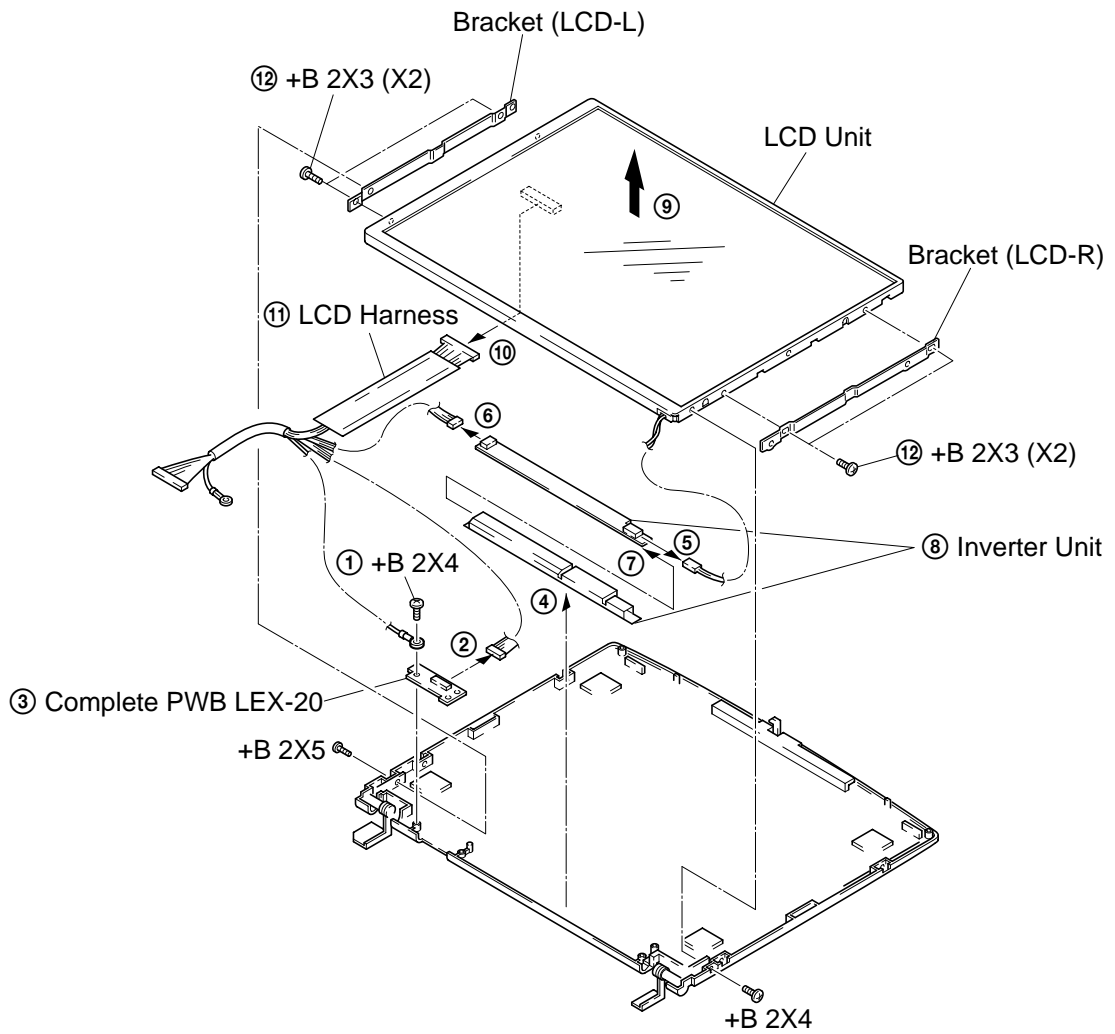
2-1. Note

This chapter describes the items to be checked and the self-tests to be performed using the main unit, floppy-disk drive, and CD-ROM drive.

2-2. Necessary Tools

• PCG-Z505L series main unit

• Floppy-disk drive

• CD-ROM drive

• Battery

• AC adaptor

• CD-ROM for self-diagnostics

• Floppy disk for self-diagnostics (Installs the DOS system.)

• Other tools required for the tests

2-3. Starting up the Service Diagnostics

1. The service diagnostics floppy disk and CD disc are prepared for the respective models separately. Insert the service diagnostics floppy disk and CD disc of the desired model, then turn on the main power of the personal computer. The model information that is unique to your personal computer and is stored in ROM, is automatically read and appears on the test menu. If the wrong service diagnostics CD disc that does not support your personal computer is inserted, an error message is displayed.

2. The driver software is installed from the CD disc, the necessary ROM information is automatically read and the initial settings are made, then the following self-diagnostics menu appears.

```
*************** Main Menu ***************
1:Check ROM Information...              c:Video test...
2:Battery test...                       d:PPK test...
3:HDD test...                           e:GUID (IEEE1394) test...
4:keyboard test...                      f:IEEE1394 Interface test...
5:LED test...                           j:IrDA test...
6:Main memory test...                   h:Jog dial test...
7:Main system test...                   i:Short aging test...
8:FAN test...                           j:Long aging test...
9:Touch pad test...                     k:Aging test including the HDD test...
a:Serial Loopback test...               l:Exit from Diagnostics MENU
b:Parallel Loopback test...
```

3. When the service diagnostics ends with success, the message "Pass" appears. When it ends with failure detecting an error, the message "Fail" appears. Press the "Esc" key to abort the self diagnostics.

2-4. Outline of Service Diagnostics Functions

• Check ROM Information...

   Displays the model information, serial number, BIOS and other information saved in the BIOS ROM.

   Does not test whether or not the personal computer is normal.

• Battery test...

   Tests the battery as to whether the battery is attached or removed, the main power is supplied from an AC power adapter or not, and the battery is charged or discharged. The test procedure appears on display. Perform the battery test following the messages on display.

   Remove and attach the battery → Check (Removal and attachment of battery)

   Disconnect and connect the AC power → Check (Disconnection and connection of AC power)

   Remove and attach the battery → Check (Discharge and charge of battery)

• HDD test...

   Tests whether the HDD returns a response when communication is established with the hard disk drive. The HDD can be tested without damaging the HDD data (without formatting the HDD) in this test since the HDD data is tentatively stored in memory during the test.

   If the main power is turned off by mistake while the test is under way, the HDD data can be damaged. Tests the following test automatically.

   1. HDD interface test (Tests whether or not the HDD is recognized)

   2. HDD seek test

   3. HDD read test

   4. HDD write test

   5. HDD random read test and random write test (It takes about 2 hours for the 18 GB HDD. This time is a guideline and changes depending on the model.)

   6. Returns to the main menu.

• Keyboard test...

   Tests the keyboard. When the "Auto select" menu is selected, the keyboard type in use is recognized from the model information that is written in ROM when shipped from the factory and the test is executed accordingly. When a specific keyboard type is selected such as US, UK, or JP, then the keyboard of the selected type is tested. If the model of your computer is JP and the keyboard type is replaced by either the US type or UK type keyboard, select the keyboard type after it is replaced.

   NOTE: The "Fn" key can be checked by pressing the "Fn" and "→" keys at the same time. Other keys can be checked by pressing the respective keys.

• LED test...

   Tests the LED. This test turns on one LED after another. The person conducting the test must visually check whether each LED is normal or not. The test starts from the front LEDs (from left to right). Then the LEDs in the center are checked (from left to right).

   NOTE: The memory stick access test using the LED cannot be run on DOS. Run it on Windows.

- Main Memory test...

  Tests the main memory. The Main Memory test contains the following three test menus. Select the desired menu that suits your need. The test is exited automatically when the respective test items end normally.
  - Fast   : Tests once. (Taking one and half minutes to two minutes)
  - Medium : Test ten times.
  - Heavy   : Test twenty times.

  Press the "Esc" key to abort the test.

- Main System test...

  Tests the fundamental functions of the CPU, etc. The test is exited automatically when all test items end normally.

- FAN test...

  Tests the fan. Tests whether the fan rotates and stops. Listen to the rotating sound or feel the wind of the fan to judge whether the fan rotates and stops. The test procedure appears on display. Perform the FAN test following the messages on display. Press "Y" to resume rotation when the fan comes to stop. Press "Y" when the fan starts rotating indicating that the test ends in success.

- Touch pad test...

  Tests the touch pad. Tests whether the cursor moves, and whether right-clicking and left-clicking function properly. The dialog box appears three times. Move the cursor to the box that appears. The tests are performed in the following order.
  - (1) Touch pad
  - (2) Right-click button
  - (3) Left-click button

- Serial loopback test...

  Performs the loopback test of the serial port. Connect the port replicator and the loopback tool to the serial port.

- Parallel loopback test...

  Performs the loopback test of the parallel port. Connect the port replicator and loopback tool to the parallel port.

- Video test...

  NOTE: Because this test is performed by visual inspection, confirm first the normal video picture, then start the test. Tests the video signal. Several video patterns appear every time the key is pressed. The person conducting the test must visually check whether the patterns appear properly. Press Y when there is no abnormality.

- PPK test...

  The computer cannot perform this test.

- GUID test...

  This test is not required normally. Displays the GUID (I-link ID value), and judges whether the value on the display is appropriate.

Confidential

- IEEE 1394 Interface test...

  Performs the 1394 communication test. Another personal computer to communicate with is necessary for this test. The models released from the year 2000 have already been confirmed that they do not cause any problems regarding the IEEE1394 interface. Even models released before 2000 will cause no problem if the same type of IEEE1394 interface IC chip (the IC chip used in the iLink block connected to the PCI bus) is used in both personal computers that are connected. In other combinations, the IEEE1394 interface test is not confirmed. (Use of the models released from the year 2000 is recommended.)

    1. Connect the iLink cable.
    2. Start up the personal computer at the other end of the IEEE1394 interface test connection using the tool floppy disk that must be created beforehand by copying programs from the service diagnostics CD disc. (Prepare a floppy disk that is formatted to contain the DOS system. Create a tool floppy disk by copying the entire TOOL folder of the CD disc to a floppy disk.)
    3. Select the 1394 test from the menu at the connected computer to enter the reception state.
    4. After the connected personal computer has entered the reception state, select the 1394 test at the personal computer to be tested. The IEEE1394 interface test then starts. Send and receive of the random data are repeated five times (i.e., this test is repeated five times.)

- IrDA test...

  Performs the IrDA communication test. Another personal computer to communicate with is necessary for this test. The models released from the year 2000 have already been confirmed that they do not cause any problems regarding the IrDA communication. Even models released before 2000 will cause no problem if the same type of IrDA communication IC chip (the IC chip used in the SIE block connected to the Extend I/O bus) is used in both personal computers that are connected. In other combinations, the IrDA communication test is not confirmed. (Use of the models released from the year 2000 is recommended.)

    1. Place the two computers so that their IrDA transmitter and receiver ports face each other.
    2. Start up the personal computer at the other end of the IrDA communication test connection using the tool floppy disk that must be created beforehand by copying programs from the service diagnostics CD disc. (Prepare a floppy disk that is formatted to contain the DOS system. Create a tool floppy disk by copying the entire TOOL folder of the CD disc to a floppy disk.)
    3. Select the IrDA communication test from the menu at the connected computer to enter the reception state.
    4. After the connected personal computer has entered the reception state, select the IrDA communication test at the personal computer to be tested. The IrDA communication test then starts.

- Jog dial test...

  Tests the revolution and clicking of the jog dial. Angle brackets < > appear when the jog dial test is selected. Rotate the jog dial clockwise (upwards) until it moves to the mark (^_^) then press the jog dial. The mark (^_^) appear will on the top of the screen. Then rotate the jog dial counter-clockwise (downwards) until it moves to the mark (^_^) then press the jog dial.

- Short aging test.../Long aging test...

  Performs the aging test. The short aging test ends when all test items have been performed once. The long aging test checks the machine for about 10 hours by repeating the test items.

- Aging test including the HDD...

  NOTE: Note that this test destroys the entire contents of the user's hard disk drive.

  Perform this test only when destructive testing of HDD is desired.

  The aging test is performed first, then read and write tests of the hard disk are implemented following the aging test. There are two tests; LONG and SHORT. Contents of the LONG aging test are the same as those the "Long aging test..." of the previous test item. Contents of the SHORT aging test are the same of the "Short aging test..." too. The test starts immediately when the menu item is selected.

- Exit from Diagnostics MENU

  Quits the service diagnostics program and the DOS prompt appears. If you exit the service diagnostics program by mistake, start up the program again.

2-5. Inspecting Windows

The Windows inspection contains the following two types of inspection.

    Audio
    Modem

Before starting inspections, create a floppy disk from the service diag CD to be serviced.
The files to be used for inspection are stored in the following sub directory inside the CD. Copy all the files in the folder to the floppy disk.

    Audio   \windiag\wave
    Modem \windiag\modem

- Audio

    A microphone and headphones are required for this inspection.
    Double-click "t_auw01" icon (MS-DOS icon) in the floppy disk that is created in advance. The display of the DOS prompt opens and the inspection starts. Once inspection starts, follow the instructions on the display to inspect the audio.

- Modem

    A modem and a line simulator are required for this inspection.
    Double-click "modem" icon (MS-DOS icon) in the floppy disk that is created in advance.
    The display of the DOS prompt opens and the inspection starts.

PIII 750MHz Processor Core with 256KB L2 Cache or Celeron 550MHz Processor Core with 128KB L2 Cache BGA2 27x31 grid array at 495 pin

Geyserville Only HighModel

PCG-Z505L Series BLOCK DIAGRAM   Rev. 0.1

CPU/440ZX 100M CLKGEN
CTRL SIG
14M → Video/Ref
33M → PCI CLK
24/48M → USB/SIO

12.1" XGALCD & INVERTER
SONY

Port Adaptor

DCLK CLKBUF DCLKI

100MHz Local Bus

ATF0 ADM1021
ATF_INT
AB_GP1

440ZX SYSTEM CONTROLLER HOST-PCI BRIGE MEMORY CONTROLLER PCI Dev # 0,1

SO-DIMM SO-DIMM
ROW#0,1 ROW#2,3

ATI Mobility-M1
AGP

LCD CONN
Cable

VGA DB-15

RJ11 RJ11

AGP BUS (3.3V)

RJ45 LAN

PCI BUS (3.3V)

ATF_INT

MS CONN MS
PORT1
MiniUSB mini USB
CNX-106

PIIX4M PCI-ISA BRIDGE IDE USB RTC
PCI Dev #7

FLASH ROM
MagicGate Device
IFX-122/CNX-106
USB MGMS Controller
Audio Yamaha YMF774B
PCI Dev #9

HCF MODEM
PCI Dev #10
LAN 100Base-TX 10Base-T
PCI Dev #11
IFX-123

CARDBUS RICOH RC5C475II
PCI Dev #12
CardBus/16bitCard
PC Card Connector 1 Slot

Internal HDD
Cable (Primary IDE)

PORT0
3Port USB Hub Philips

RJ11 LAN

PCI-1394 CXD3222AGA
PCI Dev #8
PHY MD8405E
i.LINK

USB CONN
JOG
JOG SWX-48

EISA BUS (3.3V)

mini USB Port USB MS Mic PHONE OUT

iLINK x1

MUX AccessBus
AB-GP0: Battery
AB-GP1: None
AB-GP2:
AB-GP3:

Paralle Printer x1
Serial Serial x1

RO-36/37/38

Super I/O NS PC97338VJG

H8S/2147A KBC/EC SPIC

Flash BIOS 29LV004

I/O EXPANDER 0,1

Port USB USB(1) CONN x1

DC-IN CONN
BATTERY
BAT CONN
POWER SUPPLY & CHARGER

Serial
Paralle
Cable
IrDA

SWX-47 Board
TrackPad Membrane
KeyBoard

JOG Controller JOG

PHONE OUT PHONE OUT

Mic MIC IN

Port Connector 60pin

4-1

CHAPTER 5.
# EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- When two or more parts are shown in parallel, use the part described first as the main part.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. Main Section
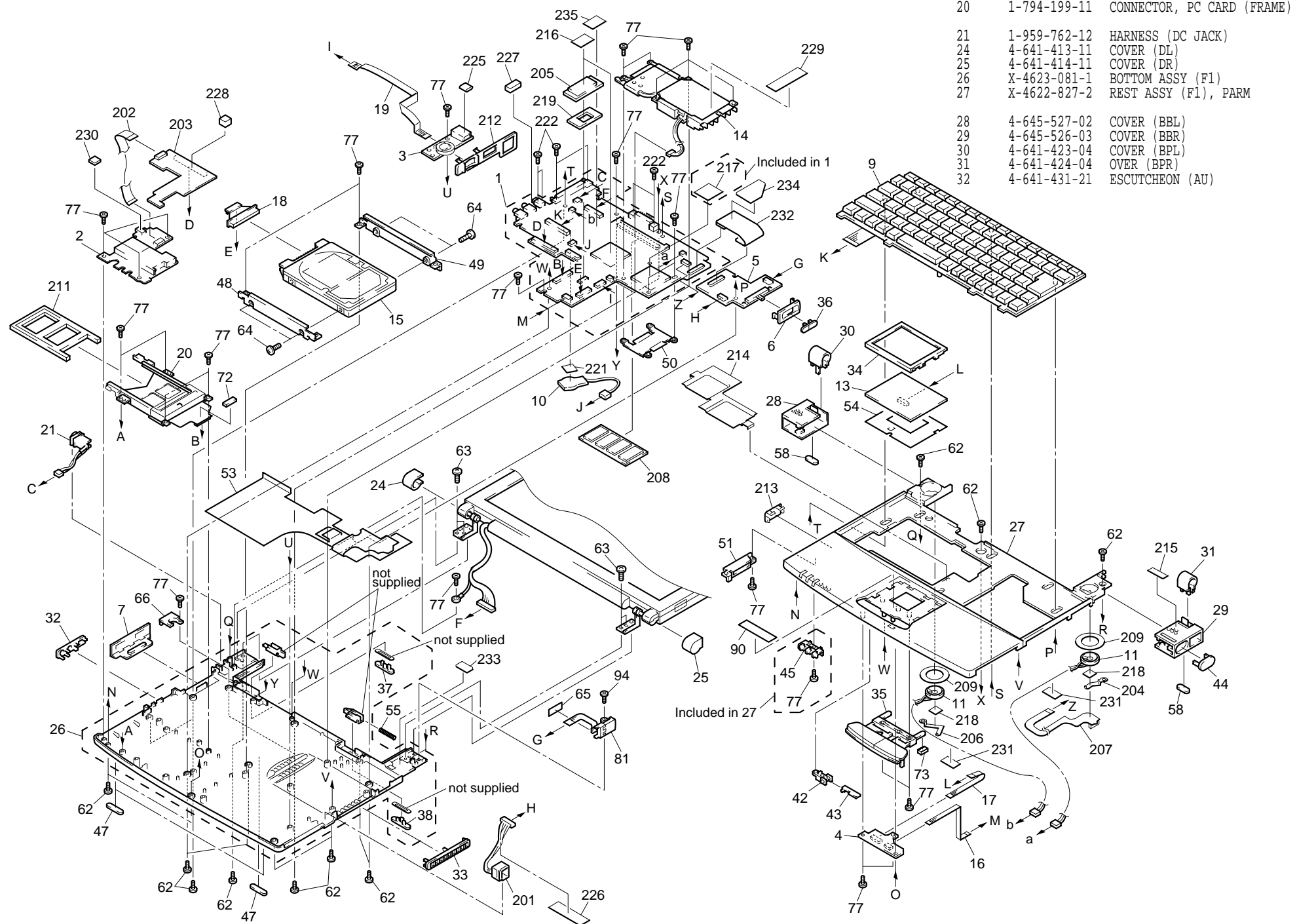
Ref.No.	Part No.	Description
1	A-8047-813-A	(Z505LS/Z505LSK)... MBX-42 (P3 750SS) A (S)
1	A-8047-815-A	(Z505LE/Z505LEK)... MBX-42 (P3 650SS) C (S)
2	A-8066-284-A	COMPLETE PWB CNX-106
3	A-8066-283-A	COMPLETE PWB SWX-48
4	A-8066-286-A	COMPLETE PWB SWX-47
5	A-8066-452-A	COMPLETE PWB IFX-123 (JUCE)
6	4-645-772-01	ESCUTCHEON (POW)
7	X-4622-597-1	LID (PR) ASSY
9	1-418-841-12	KEY BOARD UNIT (US)
10	1-528-984-11	BATTERY, V/L RECHARGEABL
11	1-529-660-11	SPEAKER, (2.0CM)
13	1-772-529-31	PAD, TOUCH
14	1-763-483-12	DC FAN
15	A-8048-397-A	(Z505LS/Z505LSK)... ASSY HDD 20GB (IBM) (S)
15	A-8046-820-A	(Z505LE/Z505LEK)... HDD 12G (F) ASSY (S)
16	1-790-728-11	CABLE, FLEXIBLE FLAT (8 CORE)
17	1-790-729-11	CABLE, FLEXIBLE FLAT (12 CORE)
18	1-790-750-12	FPC (HDD)
19	1-792-434-11	FFC (MBX-SWX) (14P)
20	1-794-199-11	CONNECTOR, PC CARD (FRAME)
21	1-959-762-12	HARNESS (DC JACK)
24	4-641-413-11	COVER (DL)
25	4-641-414-11	COVER (DR)
26	X-4623-081-1	BOTTOM ASSY (F1)
27	X-4622-827-2	REST ASSY (F1), PARM
28	4-645-527-02	COVER (BBL)
29	4-645-526-03	COVER (BBR)
30	4-641-423-04	COVER (BPL)
31	4-641-424-04	OVER (BPR)
32	4-641-431-21	ESCUTCHEON (AU)
33	4-645-376-01	ESCUTCHEON (F)
34	4-641-434-03	ESCUTCHEON (PAD)
35	4-641-435-04	BUTTON (PAD)
36	4-641-437-11	KNOB (POWER)
37	4-645-553-01	KNOB (BL)
38	4-645-554-01	KNOB (BR)
42	4-641-444-11	HOLDER (SW)
43	4-641-445-12	PLATE (SW)
44	4-641-446-01	WINDOW
45	4-645-407-01	LENS (F)
47	4-645-524-02	FOOT (F)
* 48	4-645-404-01	BRACKET (HDDF)
* 49	4-645-405-01	BRACKET (HDDR)
* 50	4-645-350-01	BRACKET (CPU)
51	X-4622-804-1	ESCUTCHEON (MG) ASSY
* 53	4-649-239-01	INSULATING SHEET (BOTTOM)
54	4-641-469-11	INSULATING SHEET (PAD)
55	4-641-779-01	SPRING (BT), COMPRESSION COIL
58	4-645-525-02	FOOT (R)
62	4-644-492-11	ACE (M2), LOCK
63	4-644-493-11	ACE (M2.6), LOCK
64	7-682-145-01	SCREW +P 3X4
65	4-635-952-01	INSULATING SHEET (WJ)
66	4-641-442-02	HOLDER (WIRE)
72	4-642-443-01	CUSHION (T3)
73	4-642-444-01	CUSHION (T4)
77	4-645-016-11	ACE (M2) (DIA.4.6), LOCK
81	1-790-699-13	FPC (CNX-73)
90	4-643-107-01	TAPE (PAD)
94	4-645-016-21	ACE (M2) (DIA.4.6), LOCK
201	1-960-830-11	HARNESS, RJ-45 INTERNAL (4 PIN)
202	1-757-416-11	FFC (IFX-CNX) 24P
203	A-8066-454-A	COMPLETE PWB IFX-122 (W)
* 204	4-645-909-01	BRACKET SPK (R)
205	A-8066-426-A	COMPLETE PWB RO-38 (Z)
* 206	4-645-406-01	BRACKET SPK (L)
207	1-677-887-11	PWB, FLEXIBLE PRINT (IRDA)
208	8-759-665-57	(Z505LS/Z505LSK)... IC HYM71V65M1601LTX-10S (128MB/100MHz)
208	8-759-665-74	(Z505LE/Z505LEK)... IC KMM464S924BT1-FL (64MB/100MHz)
209	4-645-556-01	TAPE (SP), DOUBLE STICK
211	4-643-832-12	DUMMY CARD
212	4-645-374-01	ESCUTCHEON (D)
213	4-645-378-01	ESCUTCHEON (MU)
* 214	4-645-679-03	RADIATION (NN)
215	4-649-226-21	(Z505LE)...LABEL (ID)
215	4-649-226-31	(Z505LS)...LABEL (ID)
215	4-649-226-41	(Z505LEK)...LABEL (ID)
215	4-649-226-51	(Z505LSK)...LABEL (ID)
216	4-645-920-01	SHEET (N), THERMAL
217	4-645-921-01	SHEET (C), THERMAL (Refer to page 1-1.)
218	4-646-146-01	TAPE, DOUBLE STICK
219	4-646-288-01	CUSHION (RO)
221	4-646-800-01	CUSHION (BB)
222	7-621-772-18	SCREW +B 2X4
225	4-646-935-01	GASKET (A)
226	4-646-978-01	TAPE (ETHER)
227	4-646-981-01	GASKET (C)
228	4-647-013-01	CUSHION (IFX)
229	4-648-307-01	SHEET (FAN)
230	4-648-384-01	GASKET (MU)
231	4-641-838-01	CUSHION (SP)
232	1-680-073-11	PWB, FLEXIBLE PRINT
233	4-649-384-01	CUSHION (MODEM)
234	4-649-385-01	CUSHION (CONNECTOR)
235	4-649-954-01	TAPE (SPL)

5-2. LCD Section – Made by HI –
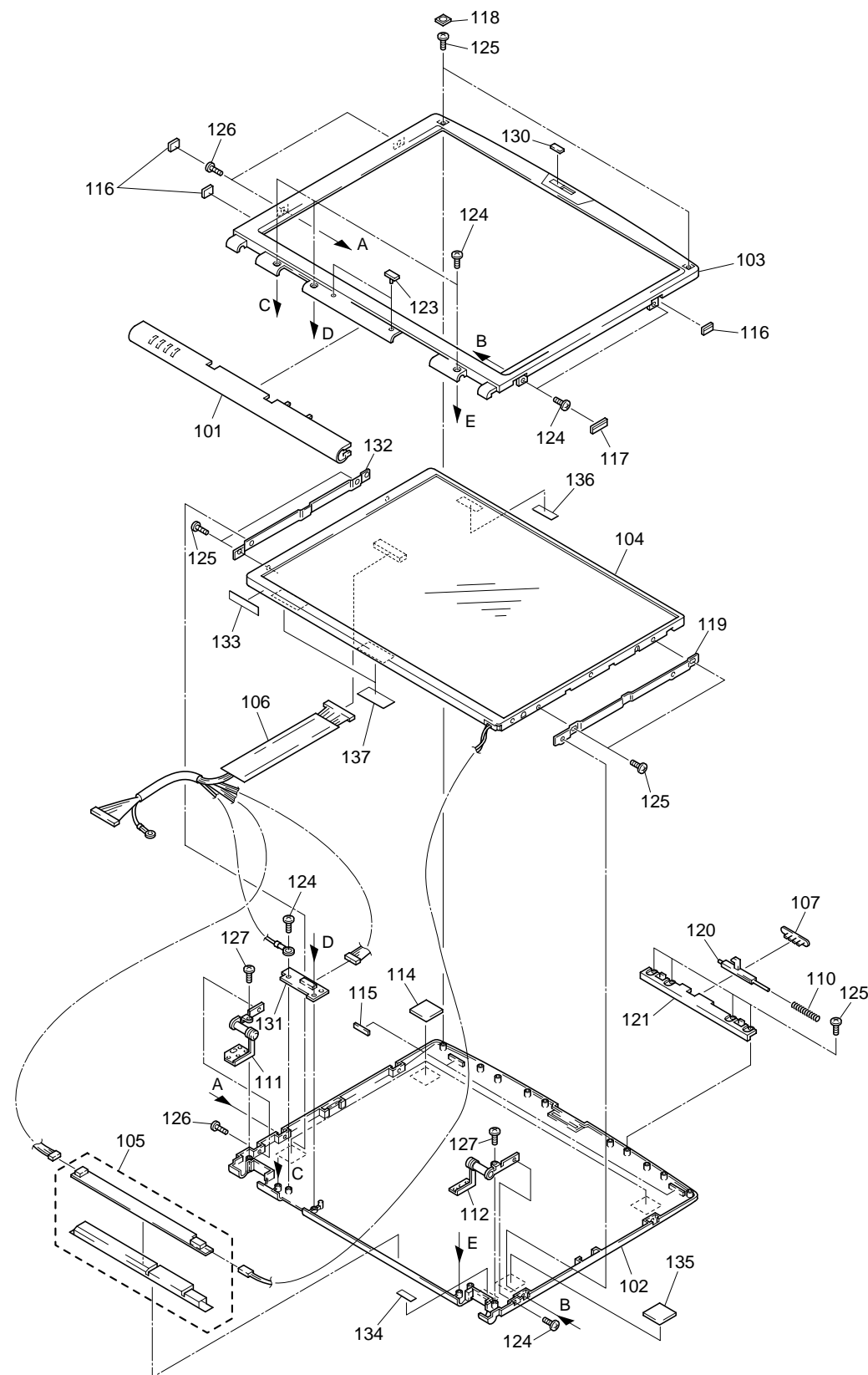
Ref.No.	Part No.	Description
101	X-4622-146-2	COVER (DC) ASSY
102	X-4622-569-4	HOUSING (DISPLAY) ASSY
103	X-4623-047-2	HOUSING (BEZEL) ASSY
104	A-8048-165-A	LCD UNIT (12TFT XGA) (S)
105	1-418-398-21	INVERTER UNIT
106	1-960-865-12	HARNESS, LCD
107	4-639-580-01	KNOB (LATCH)
110	4-639-623-01	SPRING (LATCH), COIL
111	4-641-415-02	TILT UNIT (L)
112	4-641-416-02	TILT UNIT (R)
114	4-649-225-01	CUSHION (LCD)
115	4-641-454-02	CUSHION (T)
116	4-641-455-01	BLIND (A), HOLE
117	4-641-456-01	BLIND (B), HOLE
118	4-641-457-01	BLIND (C), HOLE
* 119	4-649-172-01	BRACKET (LCD-R)
120	4-641-459-11	LEVER (LATCH)
121	4-641-460-03	HOLDER (LATCH)
123	4-641-828-02	CUSHION (DC)
124	7-621-772-18	SCREW +B 2X4
125	4-644-492-41	ACE (M2), LOCK
126	7-621-772-20	SCREW +B 2X5
127	4-644-493-11	ACE (M2.6), LOCK
130	4-639-778-02	CUSHION (LATCH)
131	A-8066-285-A	COMPLETE PWB LEX-20
* 132	4-649-171-01	BRACKET (LCD-L)
133	4-649-386-01	SPACER (LCD)
134	4-650-201-01	TAPE (LCR)
135	4-650-927-01	CUSHION (LCDB)
136	4-651-303-01	GASKET (LA)
137	4-651-304-01	GASKET (LB)

Ref.No.	Part No.	Description
		ACCESSORIES
		***********
301	1-528-983-51	PACK, LITHIUM ION BATTERY
302	A-8046-288-A	FDD ASSY (S)
⚠	1-782-614-11	CORD, POWER
303	1-790-777-11	CABLE, USB CONVERSION
⚠304	1-476-342-11	ADAPTOR, AC
	4-650-662-11	WELCOME MAT Z505
	4-650-664-11	USER GUIDE Z505
	4-650-666-11	QUICK START Z505
		LOOK AT EXPLODED VIEWS OF THE PART
		*********************************
305		PCGA-UPR5

301
Battery Pack
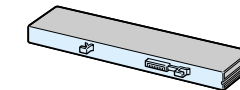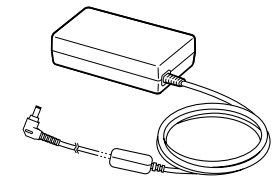
302
Floppy Disk Drive

303
USB Converter-adaptor

304
AC Adaptor
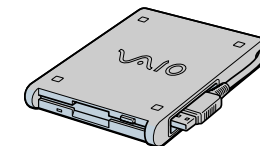
305
i.LINK Port Replicator
(PCGA-UPR5)

• The Port Replicator itself
does not have the Part No.
Refer to the Exploded Views
of PCGA-UPR5 Service
manual (9-872-032-11).

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VAIO

PCG-Z505LE/Z505LEK/Z505LS/Z505LSK (UC)

— ? —

Sony Corporation
xxx
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