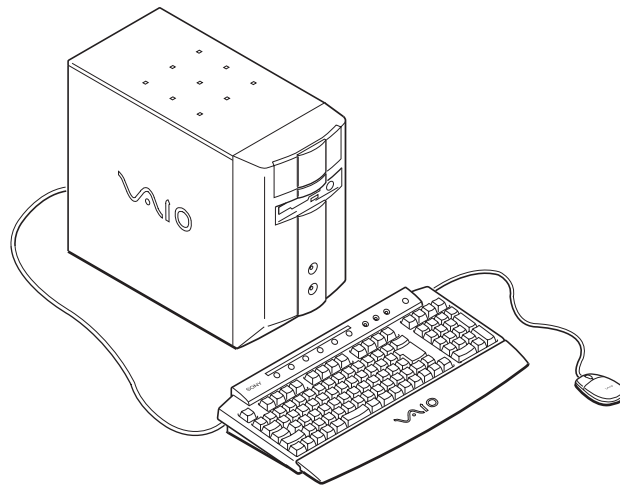


# PCV-J120

## SERVICE MANUAL

*US Model*



### Specifications

PERSONAL COMPUTER VAIO

**SONY®**

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Danger of explosion if battery is incorrectly replaced.

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

## Service and Inspection Precautions

## 1. Obey precautionary markings and instructions

## 2. Use designated parts only

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

#### 4. Inspect after completing service

## 5. When replacing chip components...

## 6. When handling flexible print boards...

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

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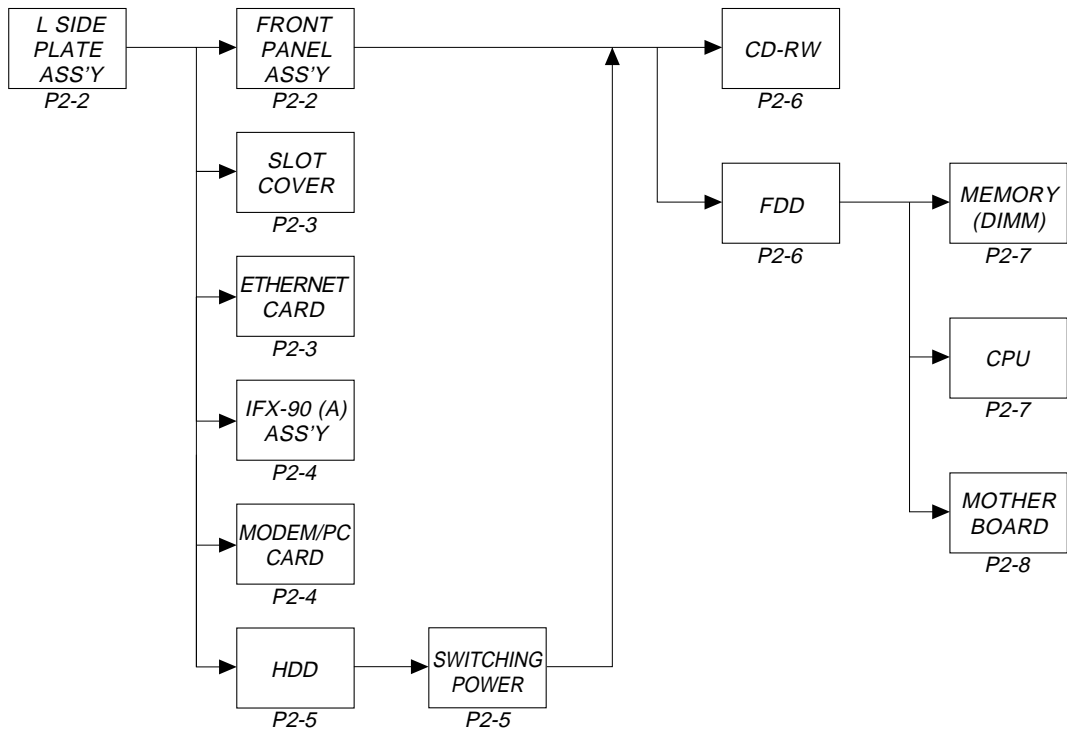
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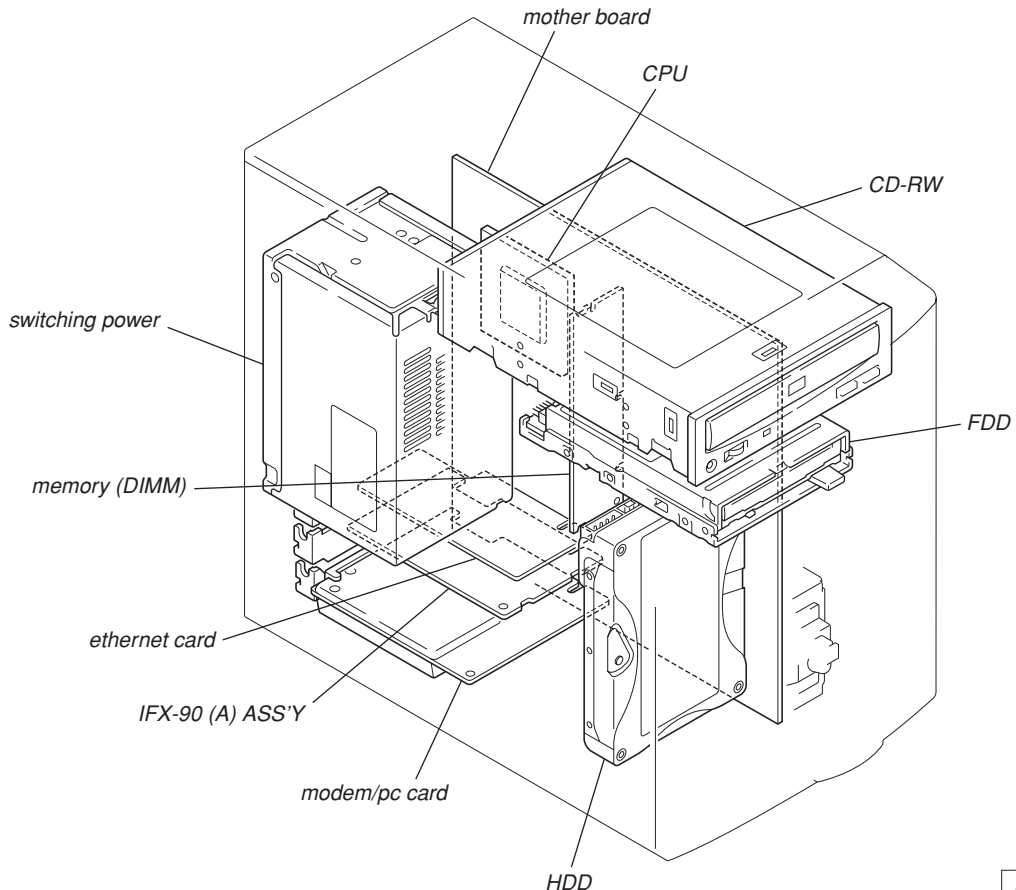
## SECTION 2 DISASSEMBLY

### 2-1. FLOW CHART

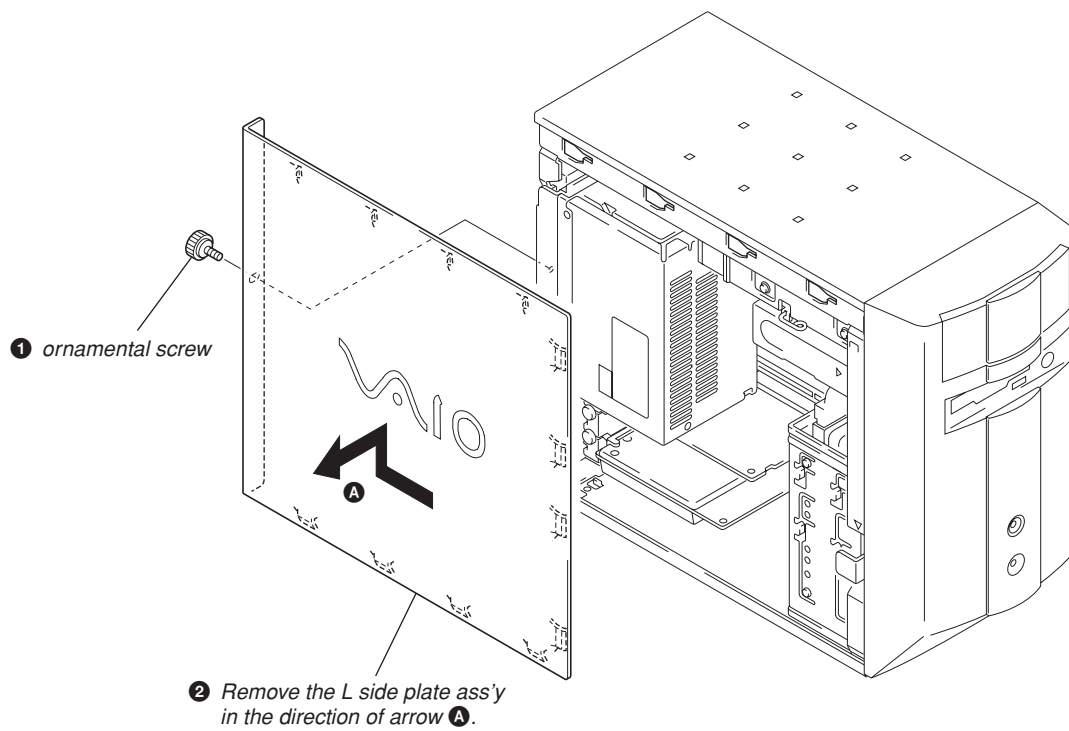


- P□-□ denotes the page concerned.
- HDD has a low resistance to vibration, requiring careful handling.

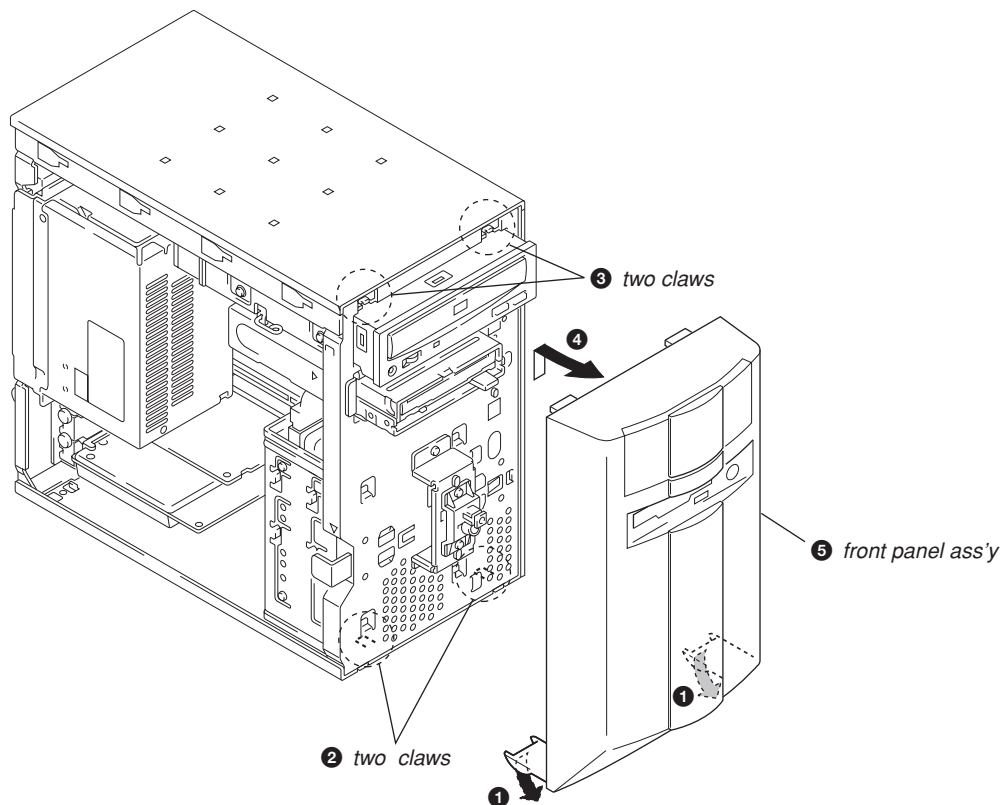
### 2-2. MAIN ELECTRIC PARTS ARRANGEMENT



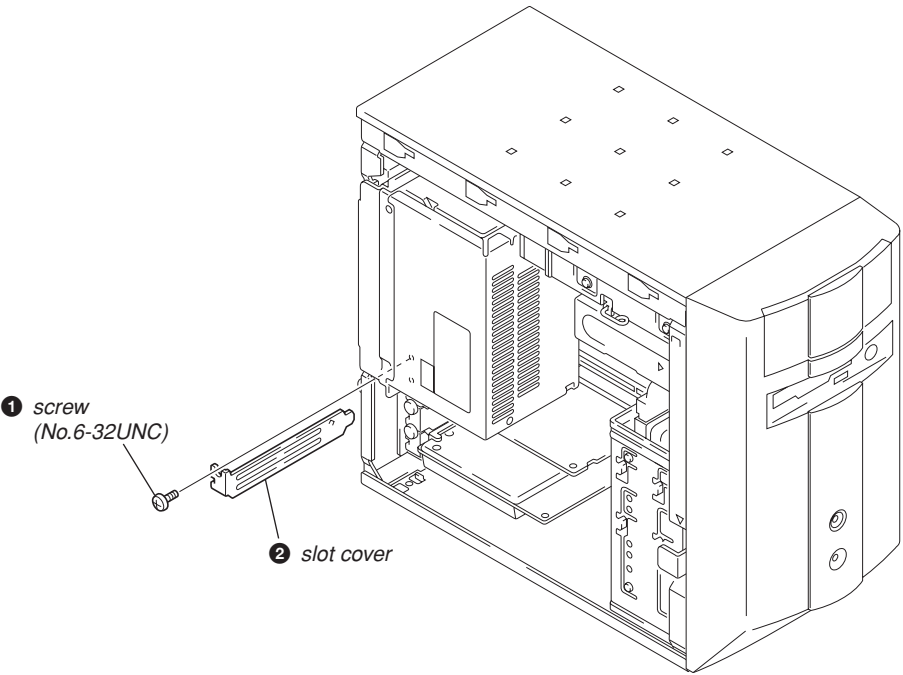
### 2-3. L SIDE PLATE ASS'Y



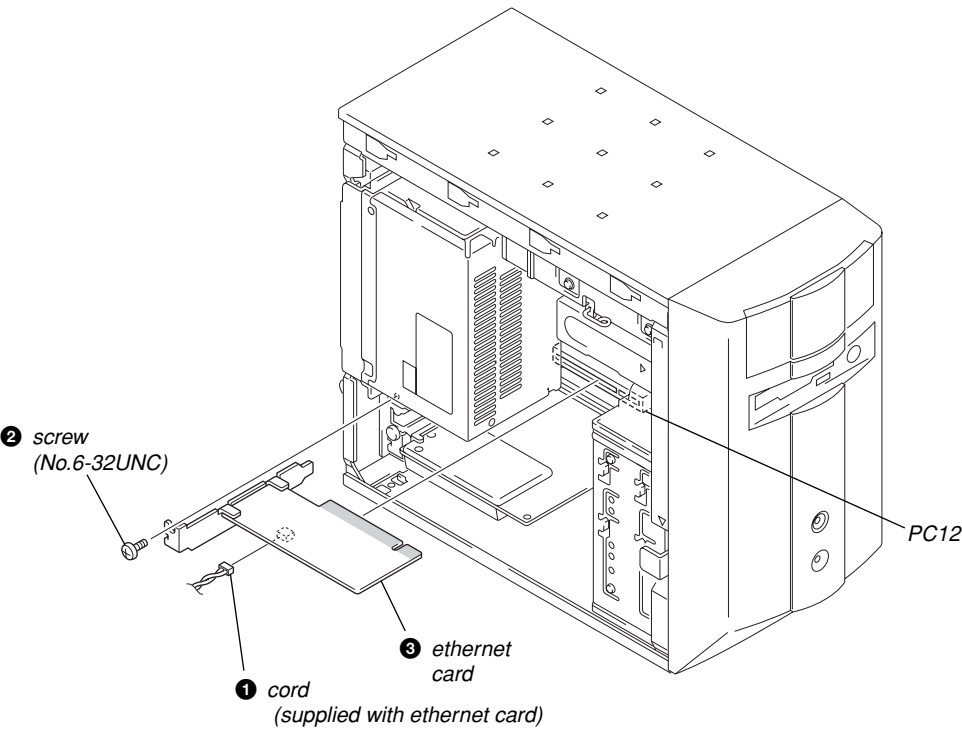
### 2-4. FRONT PANEL ASS'Y



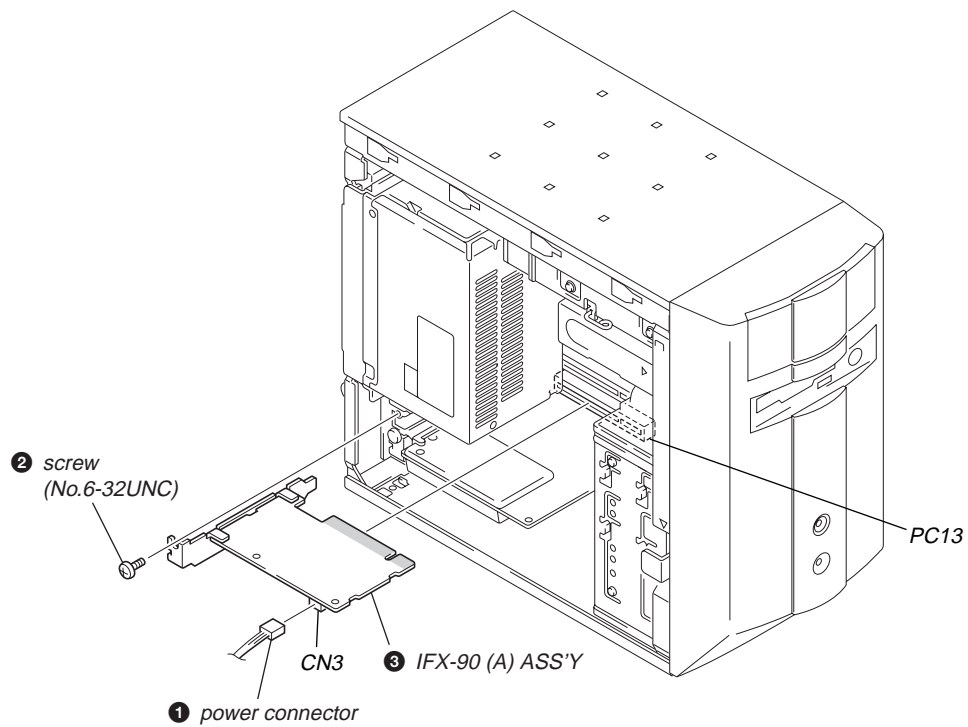
2-5. SLOT COVER



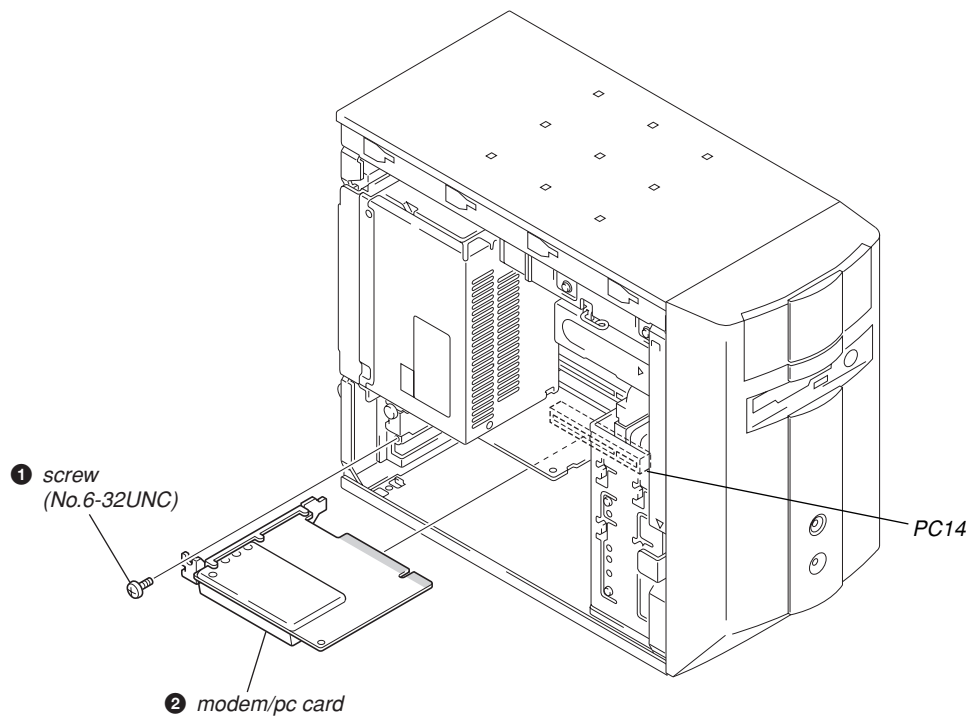
2-6. ETHERNET CARD



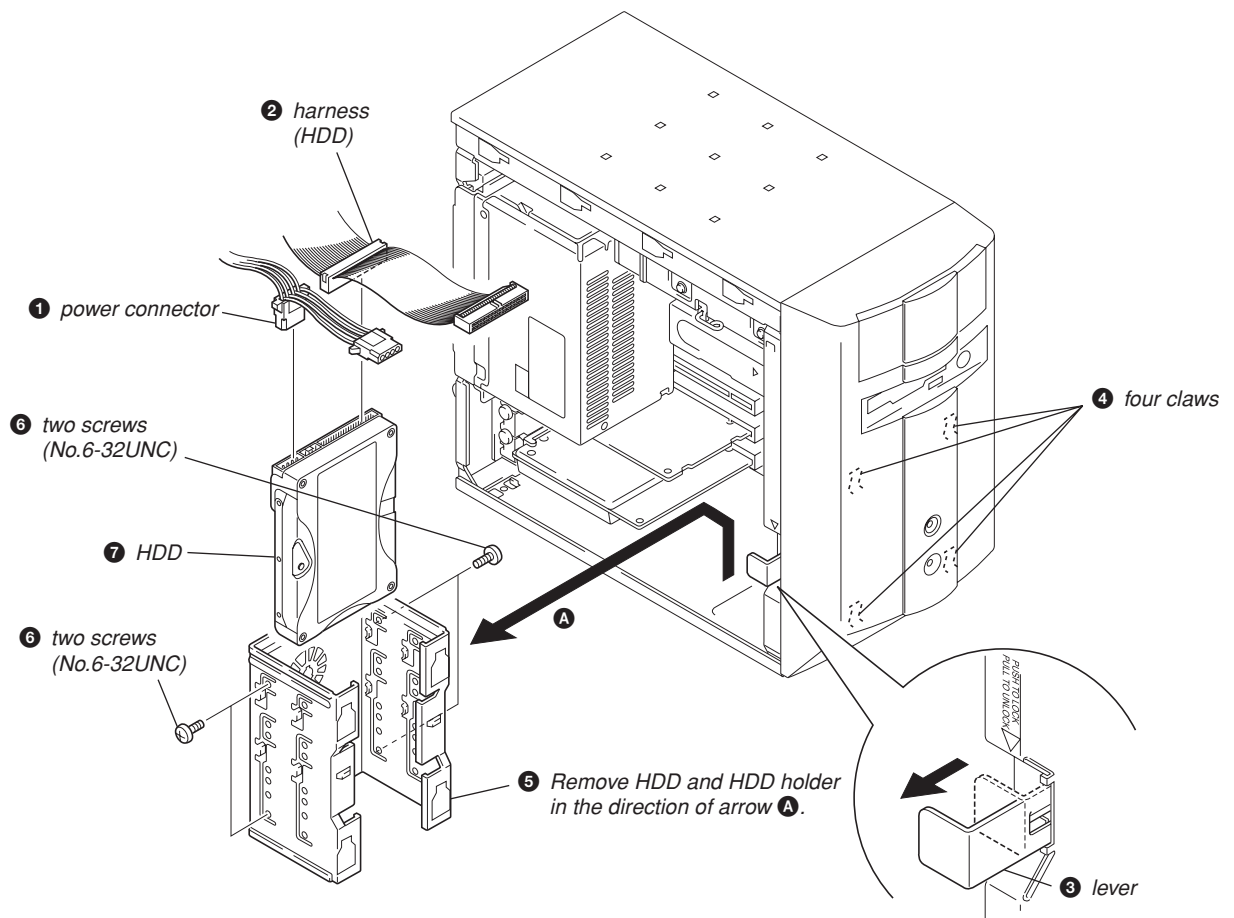
## 2-7. IFX-90 (A) ASS'Y



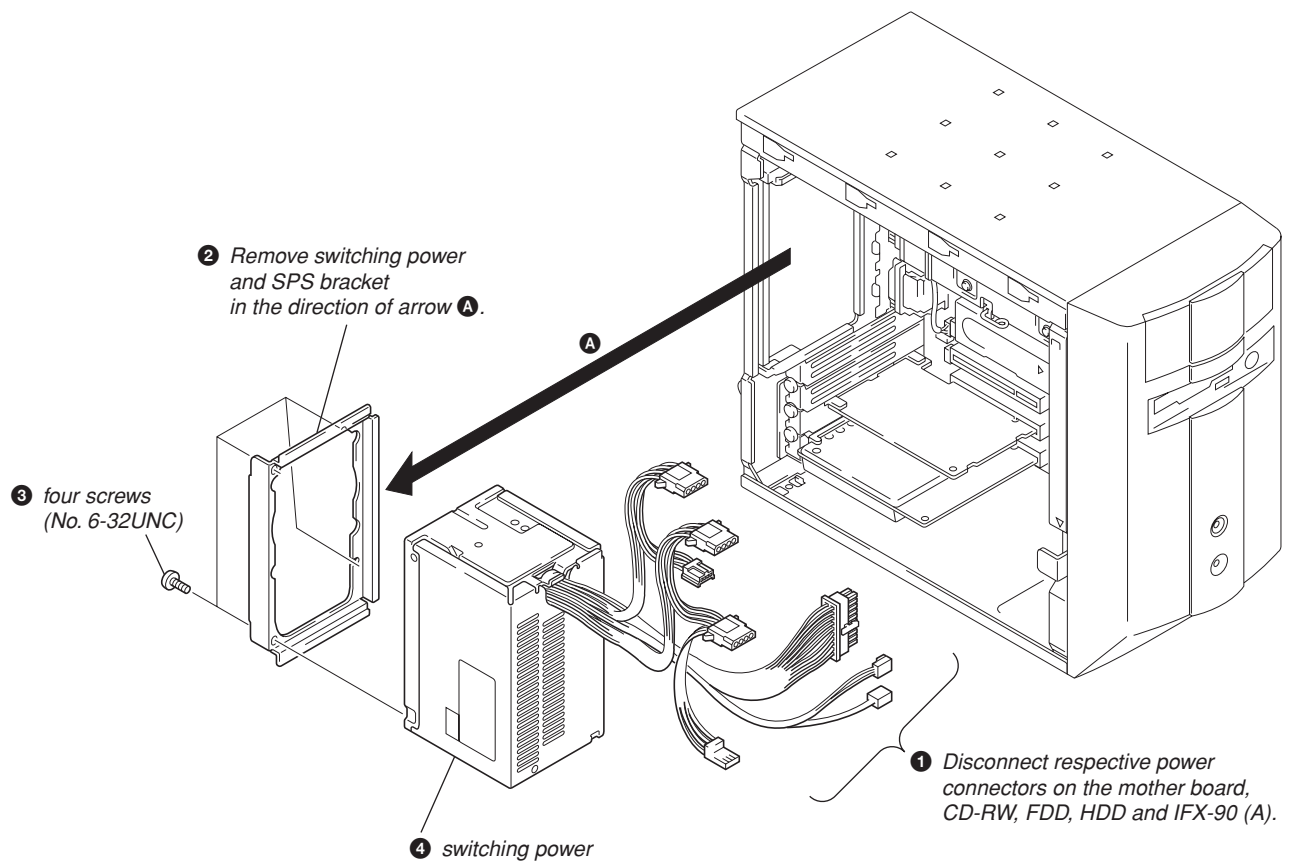
## 2-8. MODEM/PC CARD



## 2-9. HDD

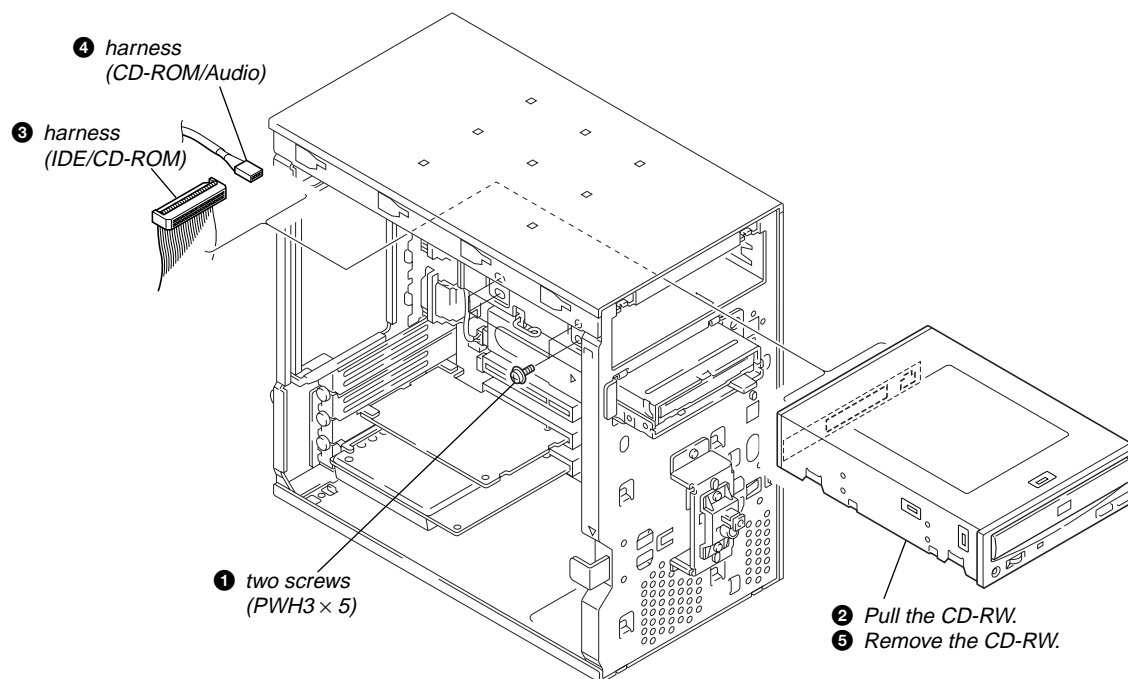


## 2-10. SWITCHING POWER

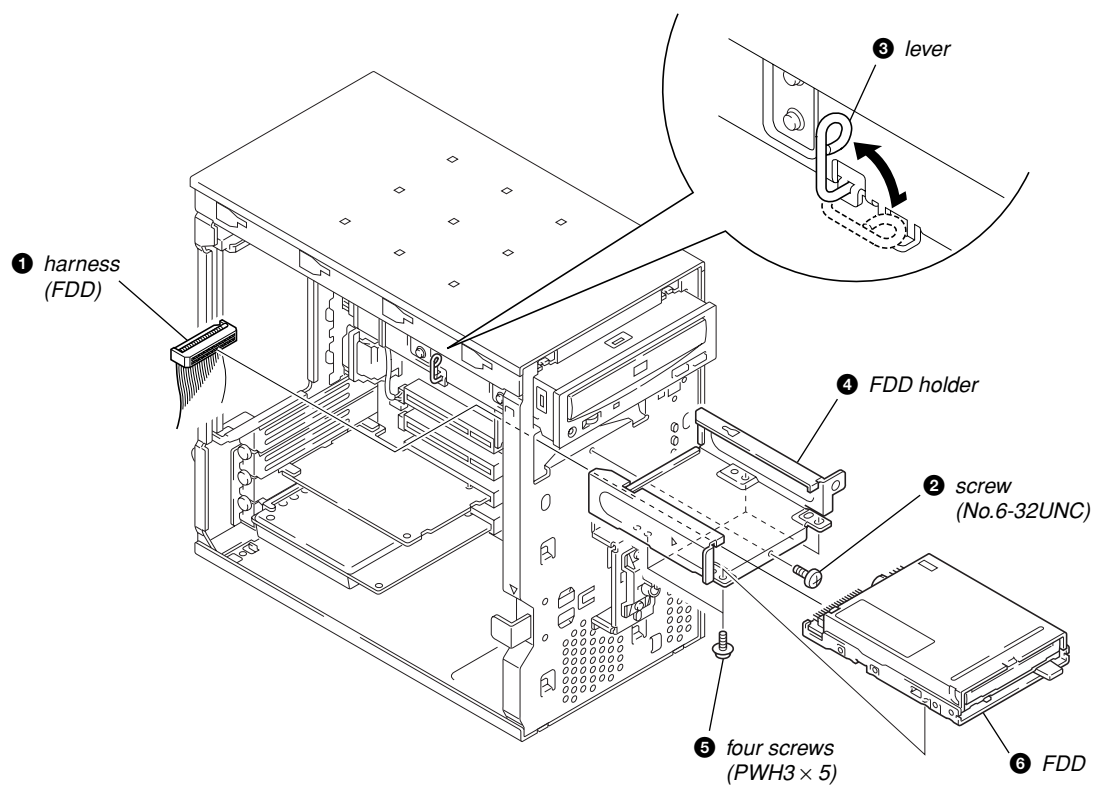




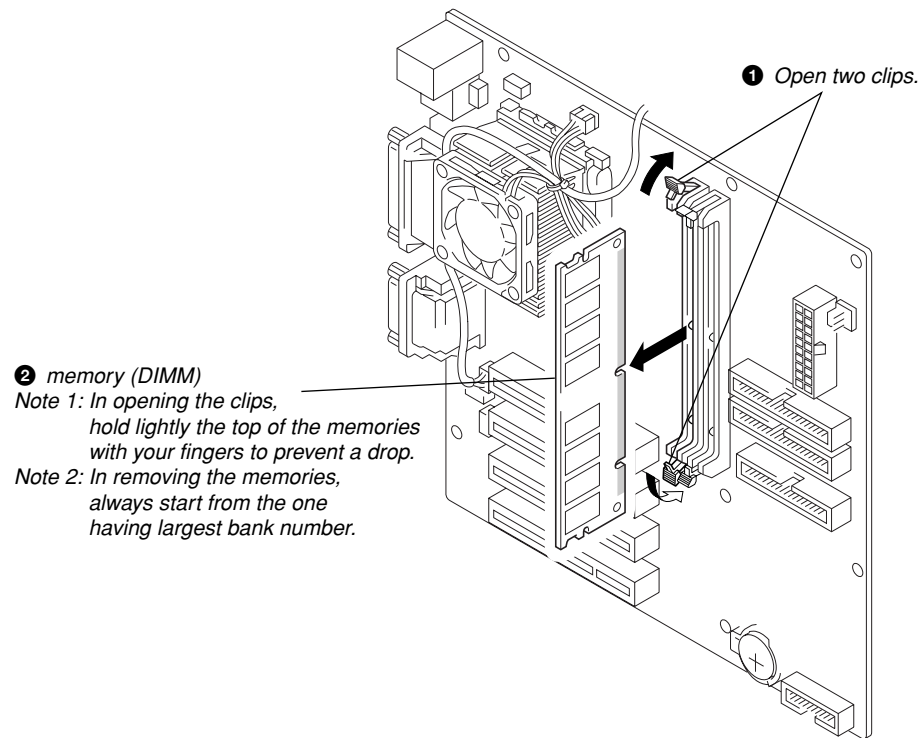
## 2-11. CD-RW



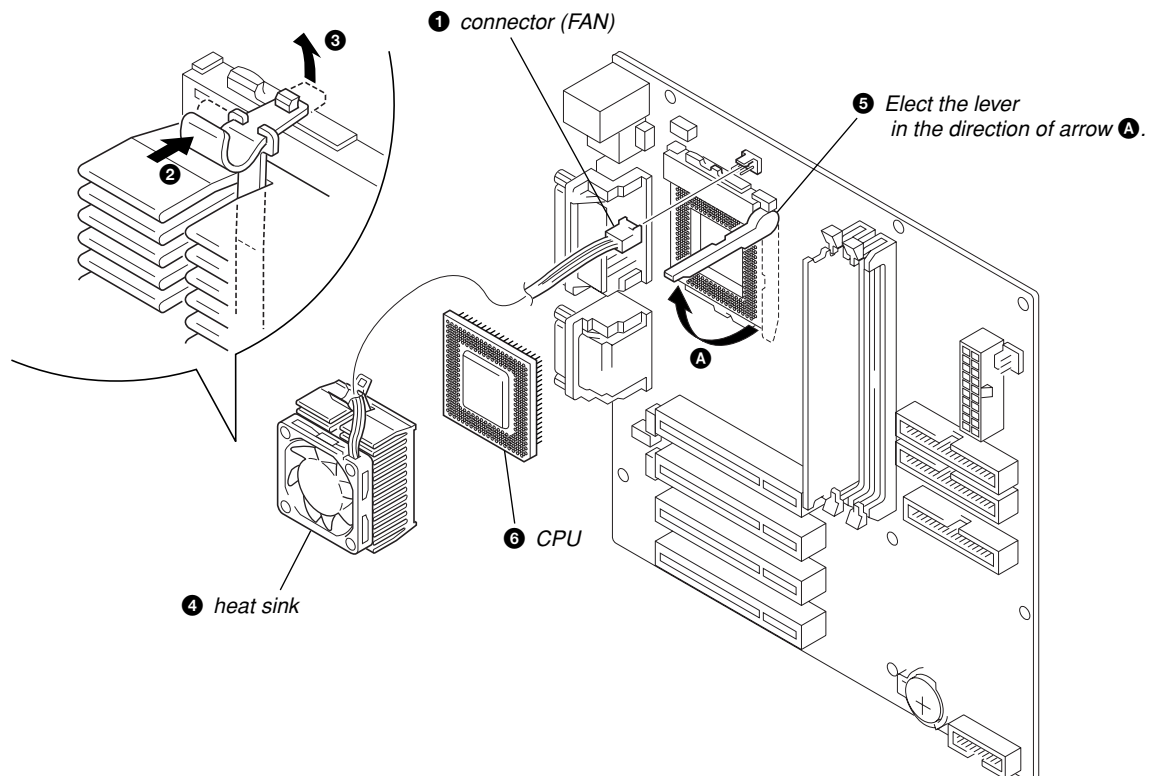
## 2-12. FDD



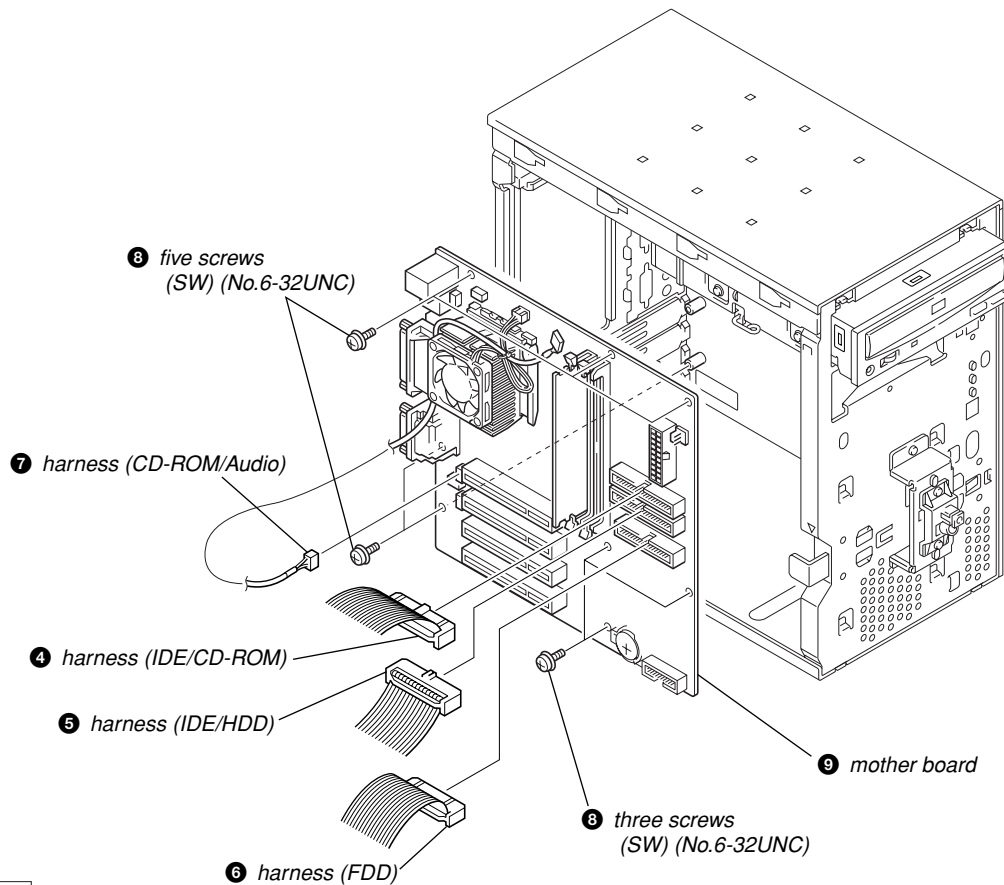
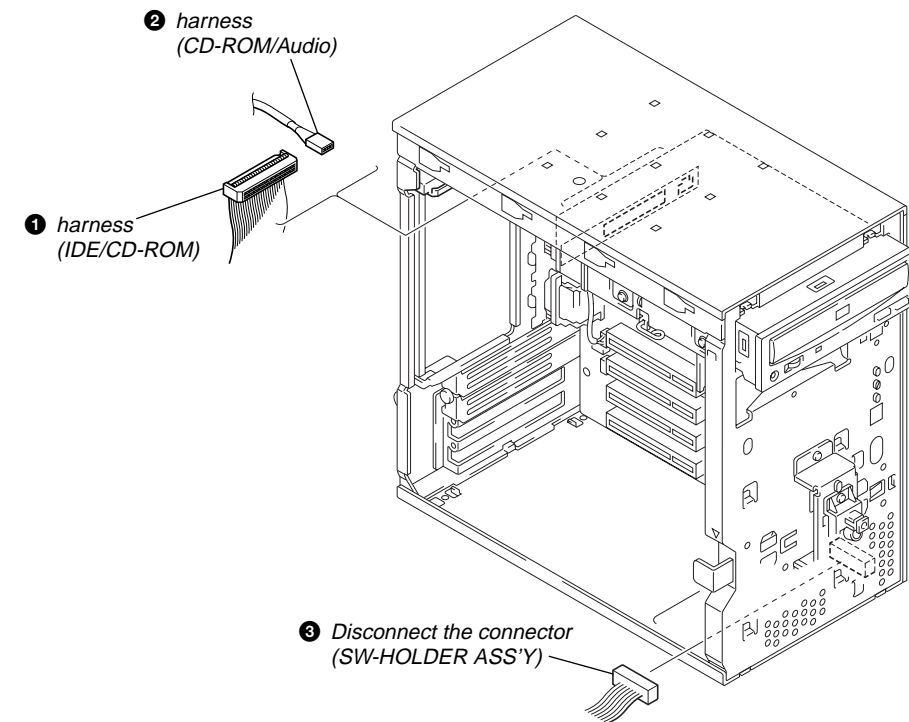
## 2-13. MEMORY (DIMM)



## 2-14. CPU



## 2-15. MOTHER BOARD



**Confidential**

PCV-J120 (US)

2-8  
(END)

# SECTION 3

## MOTHER BOARD DESCRIPTION

### 3-1. MEW-AV MOTHER BOARD

#### 3-1-1 Overview

This document describes the specification for the **MEW-AV** mother board for PCV-J120.

- MicroATX version 1.0 compatible
- Socket370A, Pentium III 700, Coppermine processor, all speeds, voltages, bus frequencies support. Can support 100MHz/66MHz FSB.
- V/RM 8.4 Rev 1.5 support.
- Intel 810 chipset
- Hardware monitoring FAN ( CPU,PS,Chassis ) speed monitor / CPU Temp/sensor -Ignored by BIOS, CPU HeatSink is Active
- Two 168-pin DIMM sockets (SDRAM, maximum 512Mbytes NonECC)
- LPC I/F I/O Controller
- Four PCI slots and NO ISA slot
- Ultra DMA/66 enable
- on board AC97 2.1 Codec Audio
- Flash BIOS(Firmware Hub)
- No Q-salt capacitors
- PC99 Compliant
- PCI 2.2

#### 3-1-2 Connectors and Headers

- Socket370A
- 2 168pin DIMM socket (gold plated)
- ATX power supply power connector , Power Supply Fan connector
- 1 FDD / 2 IDE Connectors
- 4-pin CD-ROM audio input (stereo) connector
- 4-pin AUX audio input (stereo) connector
- 1 Parallel(25pin) connector
- 1 Game Port (15pin) connector
- 2 PS/2 connector (Keyboard, Mouse, port swappable)
- 2 USB port connector (1 for rear I/O, 1 for Front accessible area)
- Line In/Mic In/Headphone Out mini-jack
- Power/Sleep/HDD/Reset/Reser/Speaker header ( Front Panel I/O header )
- 2 Cooling Fan connector(CPU, Chassis)
- Clear password header (for BIOS)
- 1 Serial (COM1, 9pin) connector in rear I/O
- 1 VGA connector
- 3-pin WOL connector

#### 3-1-3 Graphics

- Intel 810 Chipset Integrated Graphics
- Intel Dynamic Video Memory Technology (Shared with system memory)
- Soft DVD support ( Motion Compensation Hardware assist support)
- Dual VGA monitor capability with PCI VGA add-in card
- 810 Graphics Enable/Disable from BIOS (On Board VGA)

#### 3-1-4 Audio

- AC97 codec
- Legacy DOS support
- external +12dB boost add for MIC IN input
- +6dB boost with power amplifier add for HEADPHONE OUT
- Audio Quality meet PC98 specs
- Pop noise cancel function
- Audio enable/disable control circuit and controlled by the BIOS.

#### Specs(tentative)

##### Notes

Line In	1Vrms(typ) 2Vrms(max)
10k ohm impedance	
Headphoneout(line out)	
1.5 Vrms(max)	
32 ohm load(drive headphone)	
2 Vrms(max)	
10k ohm load	
Mic In	0.1 Vrms(max)
Codec Boost Off	

#### 3-1-5 Other Key Components

- Super I/O Controller Winbond W83627HF-AW
- AC97 2.1 Codec YAMAHA YMF 752
- Firmware HUB Intel 4Mbit
- On Board Buzzer

#### 3-1-6 BIOS

Refer to Sony BIOS document released separately for further details.

- Award 6.0
- DMI V2.3
- Flash ROM (Firmware Hub) Upgradable by user
- Intel Processor ID control function
- Sony customization ( i.e Sony jingle/logo during boot up)

3-1-7 Power Management

- APM 1.2
- On-Now
- ACPI 1.0 , supporting following S0, S1, S3, S5 power state

Global State /Sleep State	CPU state	Note	Support
G0/S0	C0	Working	YES
G1/S1	C1	Sleep ( no system context is lost)	YES
G1/S2	C2	Sleep(CPU cache context is lost) *1	NO
G1/S3	?	Suspend to RAM	YES
		(CPU cache,chipset context is lost) *1	
G1/S4	?	Suspend to DISK	NO
G2/S5	?	Soft Off ( Power Off, no context is saved)	YES
G3/-	-	No Power(AC Fail)	YES

\*1 Operating System is responsible for maintaining the context.

3-1-8 PS2 Keyboard/Mouse

- Keyboard/Mouse mixed signal output from Keyboard connector(notebook style)
- Swappable KB/MS supported

3-1-9 Floppy Drive Support

- 720K/1.2/1.44/2.88 MB diskette drive support
- Support 3 mode FDD for Japanese market (Disabled by default for US skus)

3-1-10 CD-ROM/DVD-ROM Drive Support

- Bootable CD (EI Torito Format) support

3-1-11 IDE Drive Support

- 2 channel (4 devices) support through ICH
- Ultra DMA 66 support, cable detect method (host method)

3-1-12 Main Memory

- 2 x168pin DIMM sockets
- support PC100 unbuffered 64-bit SDRAM 3.3V DIMMS( single or double sided) below

DIMM size	Configuration
8MB	1Mbit x 64
16MB	2Mbit x 64
32MB	4Mbit x 64
64MB	8Mbit x 64
128MB	16Mbit x 64
256MB*	32Mbit x 64

\*.256MB is not supported officially

3-1-13 Battery Requirements

- Type 2032, 3V coin battery with socket on mother board
- Battery life greater than 3 years on motherboard ( without AC power supply)

3-1-14 Mother Board Environment Specification

Parameter	Specification	Note
Temperature Non-operating	-40°C to +70°C	
Operating	0°C to +55°C	
Shock	[TBD]	
Vibration	[TBD]	

3-1-15 Power Supply/Consumption

The mother board should meet the following power supply tolerance.  
-5V supply is not used in this mother board ( -5V connect only the voltage monitor circuit )

DC Voltage	Acceptable Tolerance
+3.3V	±5%
+5V	±5%
+5V STB	±5%
+12V	±5%
-12V	±5%

3-1-16 Regulatory Compliance

The mother board should be compliant with the following safety and EMI regulations when correctly installed in a micro ATX chassis.

3-1-16-1 Safety

Meet the following regulations.

1-1 UL

UL1950-CSA950-95

Resettable FUSE is requested for all I/O power lines

1-2 CSA

CSA C22.2 No.95-93

3-1-16-2 EMC

Meet the following regulations.

Audio Input/Output EMI suppression circuit should be examined closely to meet FCC/VCCI standards

2-1 FCC Class B

## SECTION 4

### PROGRAMS FOR SERVICE

#### 4-1. General Description

The Diag for Service is supplied with a floppy disk. It can test the Motherboard, CPU, Memory, FDD, HDD, CD-RW by using the PC-Doctor/Factory, and also can test the Video Card by using the Intel Video Diag.

It is not applicable to extension boards (such as i.LINK card).

The PC-Doctor/Factory and Intel Video Diag automatically conduct the test through interactive operation after the computer started up.

#### 4-2. PC-Doctor Starting Method

Set the PC-Doctor/Factory disk in the FDD, and start the computer.

In such a case, be sure to set the Write Protect notch of the FD. After the computer started, the test program starts automatically. As it is not installed on the HDD in the computer, the contents of program are cleared when the power is turned off after the test finished.

Upon start of the test program, the following message will be displayed on the screen:

Insert CD-ROM.  
DO NOT remove FD!!  
Press any key to continue...

Insert a CD-ROM disc that can be recognized from the MS-DOS. Do not remove the FD until the test finished. After inserting the disc, press any key and the test will start.

#### 4-2-1. Test Items

CPU

Test is conducted automatically.

Base Memory

Test is conducted automatically.

Extended Memory

Test is conducted automatically.

Motherboard

Test is conducted automatically.

Serial COM1

Test is conducted automatically.

Parallel LPT1

Test is conducted automatically.

Hard Disk

Test is conducted automatically.

Floppy Disk A

Test is conducted automatically.

MISCELLANEOUS TEST

CD-RW

Test is conducted automatically. When this test finished, the CD-RW tray comes out automatically.

SM Bus

Test is conducted automatically.

System Inventory

Test is conducted automatically.

FDD Write Protect

Test is conducted automatically. When this test finished, the test stops. To start the next test, press the SPACE key.

Video

Test is conducted automatically. Press [Y] if the contents displayed on the screen are correct, or [N] if not correct.

#### 4-2-2. Test Result

After the test finished, "PASSED" or "FAILED" is displayed. In case of "FAILED", press the [F1] key to display the log.

"FAILED" is given to faulty items, and the details are displayed.

"ERROR" is given to the items where an error not related to the test occurred, and the details are displayed.

"PASSED" is given to normal items.

"N/A" is given to the items that were not tested in this computer.

#### 4-3. Intel Video Diag Starting Method

Set the Intel Video Diag disk in the FDD, and start up the computer.

After the computer started, the file is automatically opened and the test starts. As the contents of file are installed on the RAM disk, they are cleared when the power is turned off after the test finished.

#### 4-3-1. Test Result

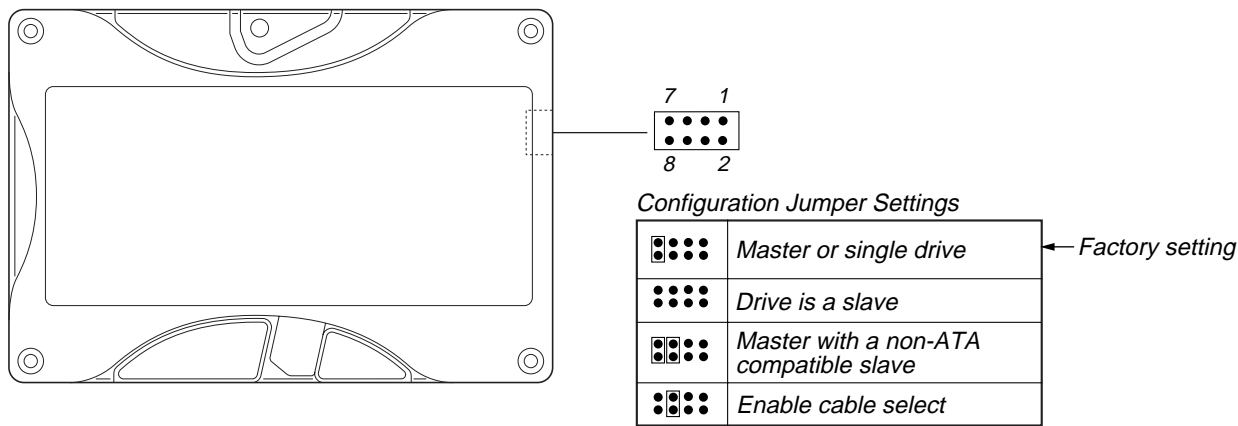
The test is conducted automatically, and if a fault is detected, the test stops and the contents of faulty item are displayed.

SECTION 5  
SERVICE INFORMATION

5-1. JUMPER SETTING ON HARD DISK DRIVE

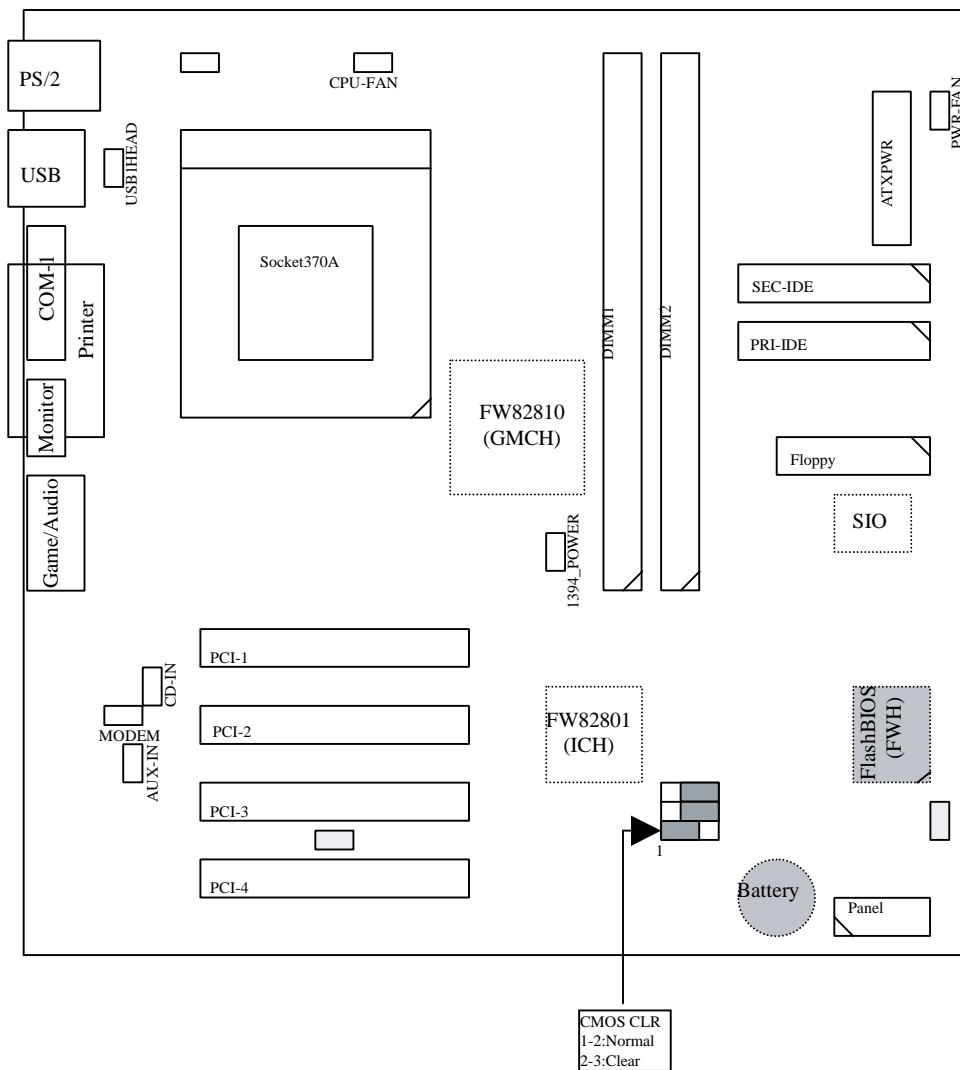
The hard disk drive of service parts can be used without changing factory jumper setting, when it was replaced for service.

Model	Part No.	Maker	Code	Capacity (formatted)	Memo
PCV-J120	A-8047-398-A	Seagate	ST320423A	20 GB	177268611



## 5-2. JUMPER SETTING OF MAIN BOARD

The Main board of service parts can be used without changing factory jumper setting, when it was replaced for service.



### ! CAUTION

Do not change the jumper with the power turned on.  
Before changing the jumper, turn off the power and disconnect the power cord from the set.



## SECTION 6 FRAME HARNESS

### 6-1. CONNECTOR LIST

#### 1. MEW-AV MOTHERBOARD

##### 1.1 Internal Connector

###### ATX PWR

20pin ATX type connector.

Connector location on MB See the frame harness diagram

pin assignments :

Pin	Signal Name
1	+3.3 V
2	+3.3 V
3	Ground
4	+5 V
5	Ground
6	+5 V
7	Ground
8	PWRGD (Power Good)
9	+5 VSB
10	+12 V
11	+3.3 V
12	-12 V
13	Ground
14	PS-ON# (power supply remote on/off control)
15	Ground
16	Ground
17	Ground
18	No Connection
19	+5 V
20	+5 V

###### PWR FAN

Support FAN control of power supply.

Connector location on MB See the frame harness diagram

pin assignments :

Pin	Signal Name
1	Ground
2	FAN_CTRL (+12 V)
3	FAN_SEN

###### WOL CON

pin assignments :

Pin	Signal Name
1	+5 V SB
2	Ground
3	WAKE

###### IDE Primary Secondary

For 3.5" Hard Drive, 40 pin Header (2.54mm standard type)

Connector location on MB See the frame harness diagram

Pin	Signal Name	Pin	Signal Name
1	RSTDRV#	2	GND
3	DD7	4	DD8
5	DD6	6	DD9
7	DD5	8	DD10
9	DD4	10	DD11
11	DD3	12	DD12
13	DD2	14	DD13
15	DD1	16	DD14
17	DD0	18	DD15
19	GND	20	NC
21	DREQ	22	GND
23	DIOW#	24	GND
25	DIOR#	26	GND
27	IORDY	28	CSEL1
29	DACK#	30	GND
31	IRQ14	32	NC
33	DA1	34	PDIAG
35	DA0	36	DA2
37	CS1#	38	CS3#
39	IDEACTP#	40	GND

Pin	Signal Name	Pin	Signal Name
1	CDRST#	2	GND
3	DD7	4	DD8
5	DD6	6	DD9
7	DD5	8	DD10
9	DD4	10	DD11
11	DD3	12	DD12
13	DD2	14	DD13
15	DD1	16	DD14
17	DD0	18	DD15
19	GND	20	NC
21	DREQ	22	GND
23	DIOW#	24	GND
25	DIOR#	26	GND
27	IORDY	28	CSEL2
29	DACK#	30	GND
31	IRQ15	32	NC
33	DA1	34	PDIAG
35	DA0	36	DA2
37	CS1#	38	CS3#
39	IDEACTS#	40	GND

###### FDD

Connector location on MB See the frame harness diagram

pin assignments :

Pin	Signal Name	Pin	Signal Name
1	Ground	2	HDsel
3	Ground	4	N.C.
5	Ground	6	DRIVE_SELECT_#3
7	Ground	8	INDEX
9	Ground	10	DRIVE_SELECT_#0
11	Ground	12	DRIVE_SELECT_#1
13	Ground	14	DRIVE_SELECT_#2
15	Ground	16	N.C.
17	Ground	18	DIRECTION#
19	Ground	20	STEP#
21	Ground	22	WRITE_DATA#
23	Ground	24	WRITE_GATE#
25	Ground	26	TRACK_00#
27	Ground	28	WRITE_PROTECT#
29	N.C.	30	READ_DATA#
31	Ground	32	SIDE_1_SELECT#
33	N.C.	34	DSKCHG#

--NOTE--

'HDsel' signal is sent from drive. It indicate 2HD(when High) or 2DD(when Low) media.  
'MODE\_SELECT#' is control signal of disk rotation speed. When this signal is High, media rotates 300RPM (2MB). When Low, media rotates 360RPM(1.6MB).

###### 168pin DIMM socketx2

2 slot DIMM connector, 3.3V Unbuffered SDRAM

Connector location on MB See the frame harness diagram

###### Socket370A

Celeron,Coppermine-128k,Coppermine-256K supported

Connector location on MB See the frame harness diagram

###### PCI Slotx4

Single Edge Contact PCI slot.

Connector location on MB See the frame harness diagram

###### 1394 Power Delivery Header (not installed\*)

This header should provide 3V power during S0,1,2,3,4 state.

Connector location on MB See the frame harness diagram

pin assignments :

Pin	Signal Name
1	3V_DUAL
2	Ground

\* Connecters mentioned (not installed) are not used even they are mounted on MB.

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**CPU FAN**

Supports CPU cooling fan of 500mA or less. Voltage = 12V

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	Ground
2	FAN_CTRL (+12 V)
3	FAN_SEN

**CHASSIS FAN (not installed\*)**

Supports chassis fan of 500mA or less. Voltage = 12V

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	Ground
2	FAN_CTRL (+12 V)
3	FAN_SEN

**CD IN**

4 pin standard 2mm single line header for CD Audio signal input

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	Left Line In
2	Ground
3	Ground
4	Right Line In

**AUX CON (not installed\*)**

4 pin standard 2mm single line header for AUX Audio signal input

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	Left Line In
2	Ground
3	Ground
4	Right Line In

**MODEM (not installed\*)**

4 pin standard 2mm single line header for MODEM Audio signal input/output

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	Ground
2	MODEM out
3	Ground
4	Phone In

**COM2 Optional header (not installed\*)**

8 pin standard 2mm single line header for COM2.

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

Pin assignments :

Pin	Signal Name
1	TxD2
2	Ground
3	RxD2
4	CTS2
5	5VSB
6	Ground
7	RI2#
8	RESERVED (N.C)

**Front Panel I/O header**

20 pin standard 2.5mm dual line header for LED/Switch unit

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name	Pin	Signal Name
1	PWR_BTN	11	MSG_LED+
2	PWR_BTN_G	12	MSG_LED-
3	IDELED-	13	KEYLOCK
4	IDELED+	14	KEYLOCK_G
5	KEY	15	SMI
6	PWR_LED+	16	SMI_G
7	PWR_LED-	17	+5V
8	PWR_LEDB+	18	NC
9	RESET	19	Ground
10	RESET G (GND)	20	SPKR

**Battery Holder & Battery**

Holder location on MB	See the frame harness diagram
Battery vender	Sony CR2032 or equivalent

**Thermal measurement header (not installed\*)**

This header is used for thermal measurement at evaluation stage. This connector does not need at production board. This signal also routed to Super I/O for thermal monitoring.

3 pin standard 2mm single line header for CPU thermal measurement

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

Pin assignments :

Pin	Signal Name
1	THERMDP ( CPU B14 )
2	THERMDN ( CPU B15 )
3	Ground

\* Connecters mentioned (not installed) are not used even they are mounted on MB.

## 1.2 External Connector Parallel

Connector location on MB	Rear side, see the frame harness diagram
--------------------------	--

pin assignments

Pin	Signal Name	Pin	Signal Name
1	Strobe#	14	Auto Feed#
2	Data bit 0	15	Fault#
3	Data bit 1	16	INIT#
4	Data bit 2	17	SLCT IN#
5	Data bit 3	18	Ground
6	Data bit 4	19	Ground
7	Data bit 5	20	Ground
8	Data bit 6	21	Ground
9	Data bit 7	22	Ground
10	ACK#	23	Ground
11	Busy	24	Ground
12	Error	25	Ground
13	Select		

### Serial(COM1) Port

Connector location on MB	Rear side, see the frame harness diagram
--------------------------	--

pin assignments :

Pin	Signal Name
1	DCD
2	Serial In #
3	Serial Out #
4	DTR#
5	Ground
6	DSR
7	RTS
8	CTS
9	RI1#

### PS2 Keyboard/Mouse

Connector location on MB	Rear side, see the frame harness diagram
--------------------------	--

pin assignments

Pin	Signal Name
1	Keyboard Data
2	Mouse Data
3	Ground
4	PS2VCC
5	Keyboard Clock
6	Mouse Clock
7	Mouse Data
8	N.C.
9	Ground
10	PS2VCC
11	N.C.
12	Mouse Clock

PS2VCC line need the over current protector. Raychem miniSMDC110-2 or equivalent is used for that.

### USB

Two USB connector for external USB devices. ( Support the stacked connector )

Connector location on MB	See the frame harness diagram
--------------------------	-------------------------------

pin assignments :

Pin	Signal Name
1	USBVCC1
2	USBP0#
3	USBP0
4	Ground
5	USBVCC2
6	USBP1#
7	USBP1
8	Ground

USBVCC1/USBVCC2 lines need the over current protector. Raychem miniSMDC110-2 or equivalent is used for that.

### Game/LineOut(Headphone)/LineIn/Microphone Jack

Connector location on MB	Rear side, see the frame harness diagram
--------------------------	--

Game port pin assignments :

Pin	Signal Name
1	GAMEVCC
2	JPYB0
3	JOYA0
4	GND
5	GND
6	JOYA1
7	JOYB1
8	GAMEVCC
9	GAMEVCC
10	JOYB2
11	JOYA2
12	MIDI_TxD
13	JOYA3
14	JOYB3
15	MIDI_RxD

Line Out pin assignments :

Pin	Signal Name
Sleeve	Ground
Tip	Audio Left Out
Ring	Audio Right Out

Line In pin assignments :

Pin	Signal Name
Sleeve	Ground
Tip	Audio Left In
Ring	Audio Right In

Microphone In pin assignments :

Pin	Signal Name
Sleeve	Ground
Tip	Microphone mono In
Ring	Electret Bias Voltage

GAMEVCC line need the over current protector. Raychem miniSMDC110-2 or equivalent is used for that.

### USB Power Supply

Support S3 wakeup

	USBPS
5VSB	1-2
5V	2-3

### Monitor

Connector location on MB	Rear side, see the frame harness diagram
--------------------------	--

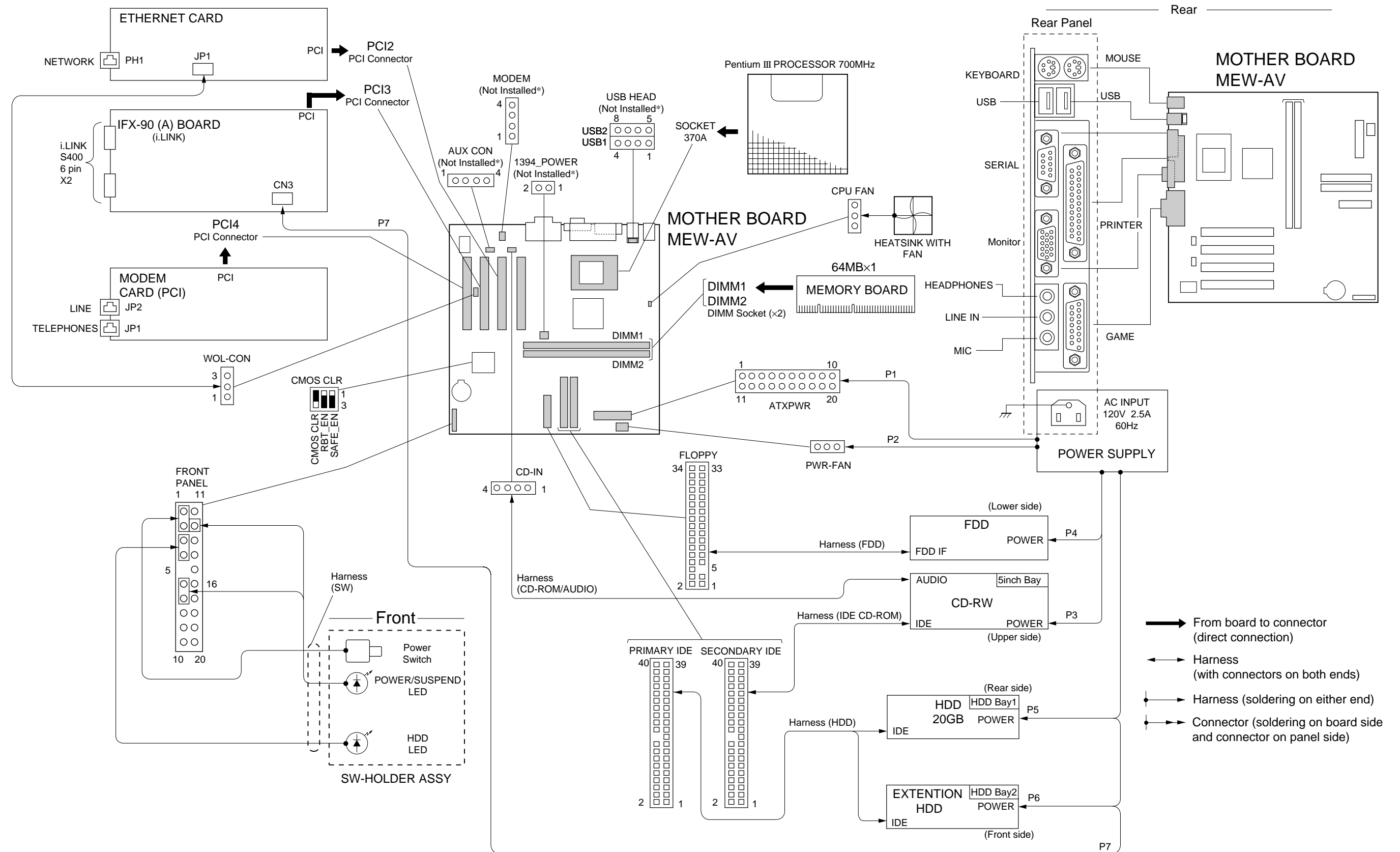
pin assignments:

Pin	Signal Name
1	R
2	G
3	B
4	NC
5	GND
6	GND
7	GND
8	GND
9	+5V
10	GND
11	NC
12	DDCDATA
13	HSYNC
14	VSYNC
15	DDCCLK

# MEMO

## 6-2. FRAME HARNESS DIAGRAM

\* Connectors mentioned (not installed) are not used even they are mounted on MB.



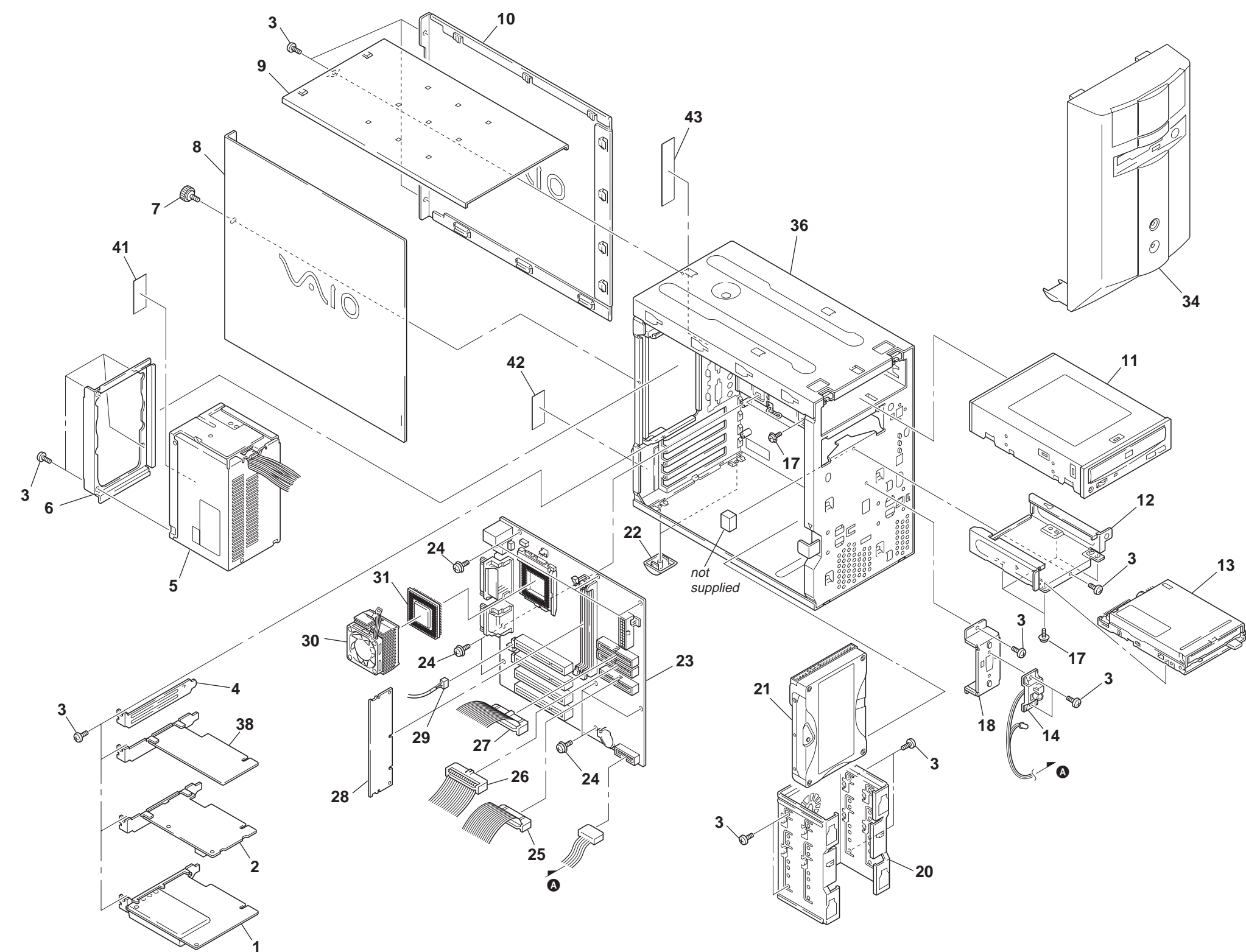
SECTION 7  
REPAIR PARTS LIST

NOTE:

- The parts listed here are for service, and therefore they may be different from the parts shown in circuit diagrams or used in the set.
- The category "O" in S/P column denotes that the parts are not always stocked.
- The parts with ♦ marking are stocked at the Division.

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

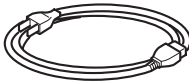
7-1. EXPLODED VIEW AND PARTS LIST



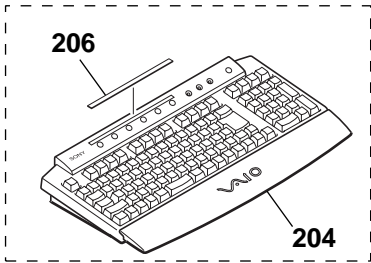
S/P	Ref. No.	Part No.	Description	Remark
S	♦ 1	1-761-314-31	MODEM CARD (PCI)	
S	♦ 2	A-8066-089-A	IFX-90(A) ASSY	
S	3	4-635-795-01	SCREW (NO.6-32UNC)	
O	4	4-647-165-01	COVER, SLOT	
$\Delta$ S	5	1-468-507-21	POWER, SWITCHING	
O	6	4-646-519-01	SPS BRACKET	
S	7	4-647-166-01	SCREW, ORNAMENTAL	
S	8	X-4622-713-1	PLATE ASSY, L SIDE	
S	9	4-646-514-01	UP CASE	
S	10	4-646-523-01	R-SIDE PLATE	
S	♦ 11	1-772-893-11	CD-RW/M-44	
O	12	4-646-516-01	FDD HOLDER	
S	♦ 13	A-8046-897-A	FD DRIVE ASSY (S)	
S	14	A-8047-699-A	SW-HOLDER ASSY	
S	17	7-682-903-01	SCREW (+PWH3X5)	
O	18	4-646-522-01	SW-BKT	
O	20	4-646-517-01	HDD HOLDER	
S	♦ 21	A-8047-398-A	HDD (20GB) ASSY (S)	
S	22	4-646-502-02	FOOT	
S	♦ 23	A-8047-338-A	MOTHER BOARD (EU3) ASSY (S)	
S	24	4-645-944-01	SCREW (SW) (NO.6-32UNC)	
S	25	1-960-434-11	HARNESS (FDD)	
S	26	1-960-432-11	HARNESS (HDD)	
S	27	1-960-433-12	HARNESS (IDE/CD-ROM)	
S	28	8-749-018-66	IC GMM26416233XNTG-75 (DIMM: 128MB)	
S	29	1-960-435-11	HARNESS (CD-ROM/AUDIO)	
S	30	1-763-508-11	HEAT SINK (WITH FAN)	
S	♦ 31	A-8047-298-A	CPU (P3/700MHz/370) ASSY (S)	
S	34	A-8047-550-A	FRONT PANEL ASSY	
O	36	X-4623-073-1	MAIN CHASIS ASSY	
S	38	1-761-343-21	CARD, ETHERNET	
O	41	4-648-030-01	SEAL (VOLTAGE)	
O	42	4-648-029-01	LABEL, SLOT	
O	43	4-648-027-01	LABEL, I/O	

7-2. ACCESSORIES AND PARTS LIST

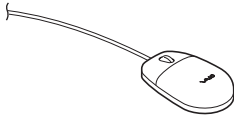
201  
POWER CORD SET (1)



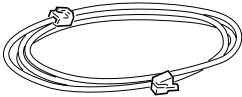
203  
KEYBOARD (1)



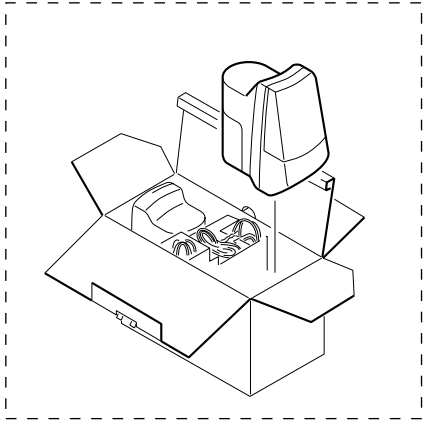
207  
WHEEL MOUSE (1)



208  
CONNECTION CORD (1)



209  
SPEAKER UNIT (1)



S/P	Ref. No.	Part No.	Description	Remark
			ACCESSORIES & PACKING MATERIALS	
			*****	
S		4-650-591-01	QUICK START	
S		4-650-595-01	USER GUIDE	
△S	201	1-777-786-11	CORD, AC	
S	203	1-772-704-21	KEYBOARD (US)	
S	204	9-885-001-34	REST, PALM	
S	206	9-885-000-89	PLATE (PLAIN), TOP	
S	207	1-772-207-51	WHEEL MOUSE (PS/2)	
S	208	1-782-207-11	CABLE, MODEM	
S	209	1-529-717-21	SPEAKER UNIT (BOX TYPE)	

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

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