VPCP1 Series

SERVICE MANUAL

Ver.3-2010H

Revision History

Area	Model	Lineup
Japanese	Japanese	VPCP119KJ/D VPCP119KJ/P VPCP119KJ/W VPCP11AKJ* VPCP11ALJ* VPCP11AVJ*
American	US Canadian	VPCP111KX/B VPCP111KX/D VPCP111KX/G VPCP111KX/F VPCP111KX/W VPCP112KX/B VPCP112KX/B VPCP112KX/B VPCP112KX/B VPCP112KX/W VPCP113KX/B VPCP113KX/B VPCP113KX/B VPCP113KX/B VPCP113KX/B VPCP113KX/B VPCP114KX/B VPCP114KX/B VPCP114KX/B VPCP114KX/B VPCP114KX/B VPCP116KX/B VPCP118KX/B VPCP118KX/PI
	Latin	VPCP110JB/B VPCP110JB/BI VPCP110JB/D VPCP110JB/G VPCP110JB/PI VPCP110JB/PI VPCP110KL/B VPCP110KL/B

Area	Model	Lineup
American	Latin	VPCP110KL/D VPCP110KL/G VPCP110KL/P VPCP110KL/WI
European	AEP/UK	VPCP11S1E/B VPCP11S1E/B VPCP11S1E/G VPCP11S1E/G VPCP11S1E/W VPCP11S1R/B VPCP11S1R/B VPCP11S1R/G VPCP11S1R/W VPCP11S1R/W VPCP11S1R/W VPCP11S1R/W VPCP11S1R/W VPCP11Z9E/B VPCP11Z9E/B
	International	VPCP115KG/B VPCP115KG/D VPCP115KG/P VPCP115KG/W VPCP116KG/B
	Korean	VPCP115KK/B VPCP115KK/D VPCP115KK/P VPCP115KK/W
Asian/Oceania/	Taiwan	VPCP115KW/B VPCP115KW/D VPCP115KW/P VPCP115KW/W
South Africa	Chinese	VPCP115JC/B VPCP115JC/D VPCP115JC/G VPCP115JC/P VPCP115JC/W VPCP118JC/B VPCP118JC/B VPCP118JC/B VPCP119JC/BI VPCP119JC/BI VPCP119JC/WI

● Design and specifical



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PERSONAL COMPUTER

SONY®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

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 60°C (140°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.

The components identified by mark $\stackrel{\triangle}{\coprod}$ contain confidential information.

Strictly follow the instructions whenever the components are repaired and/or replaced.

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 \triangle 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 270°C.
- 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 A 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 DANSCE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

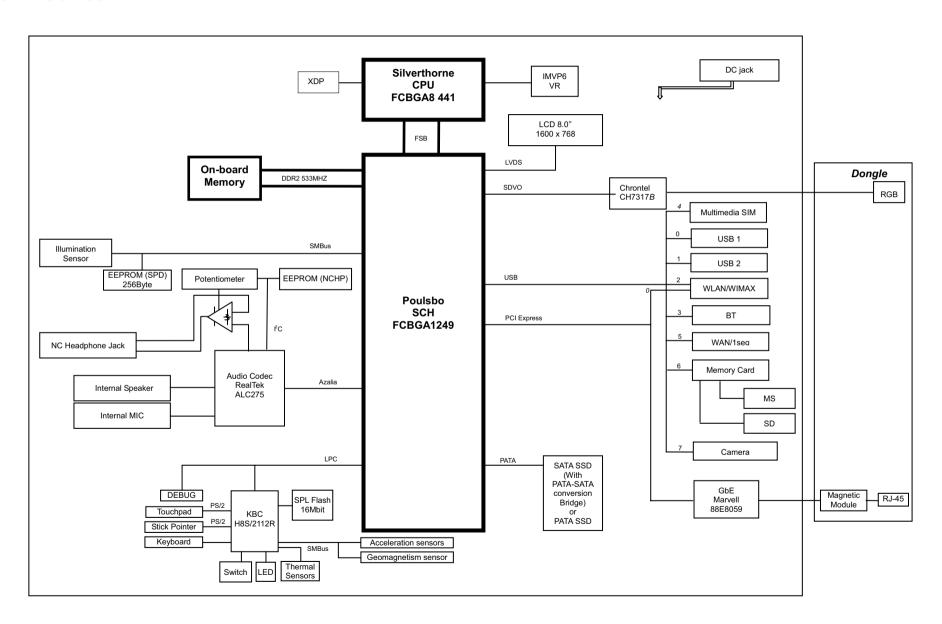
TABLE OF CONTENTS

Section Title	Page
CHAPTER1. BLOCK DIAGRAM	
1-1.VPCP1 Series	1-1
(t	o 1-1)
CHAPTER2. FRAME HARNESS DIAGRAM	,
2-1. VPCP1 Series (TOP)	0.4
2-2. VPCP1 Series (BOTTOM)	
(t	o 2-2)
CHAPTER3. EXPLODED VIEWS AND PARTS LIST	
Note	. 3-2
Screws	
S-1.ScrewsPalmrest	3-3
P-1.Palmrest	0.4
Main Board	. 3-4
M-1.Main Board	3-5
Bottom	
B-1.Bottom	. 3-6
HDD (SSD)	
H-1.HDD (SSD)	. 3-7
LCD L-1.LCD	2.0
ACCESSORIES	. 3-8
A-1.ACCESSORIES	. 3-9
(t	o 3-9)
CHAPTER4.OTHERS	,
4-1. Note for WWAN Board Replacement	
(t	o 4-1)

- SPECIFICATIONS are listed on page 3-1 of "CHAPTER3. EXPLODED VIEWS AND PARTS LIST".
- History of the changes is shown as the "Revision History" at the end of this data.

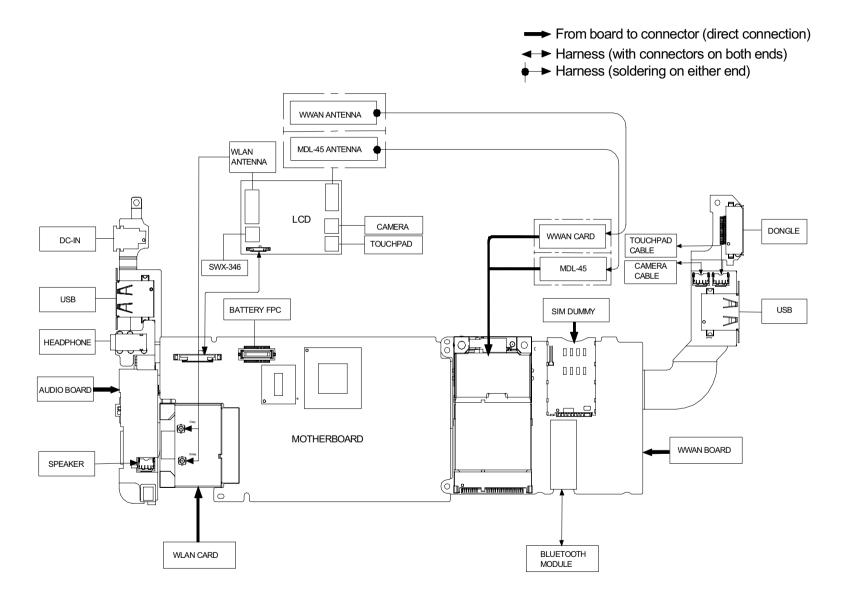
CHAPTER1. BLOCK DIAGRAM

1-1.VPCP1 Series

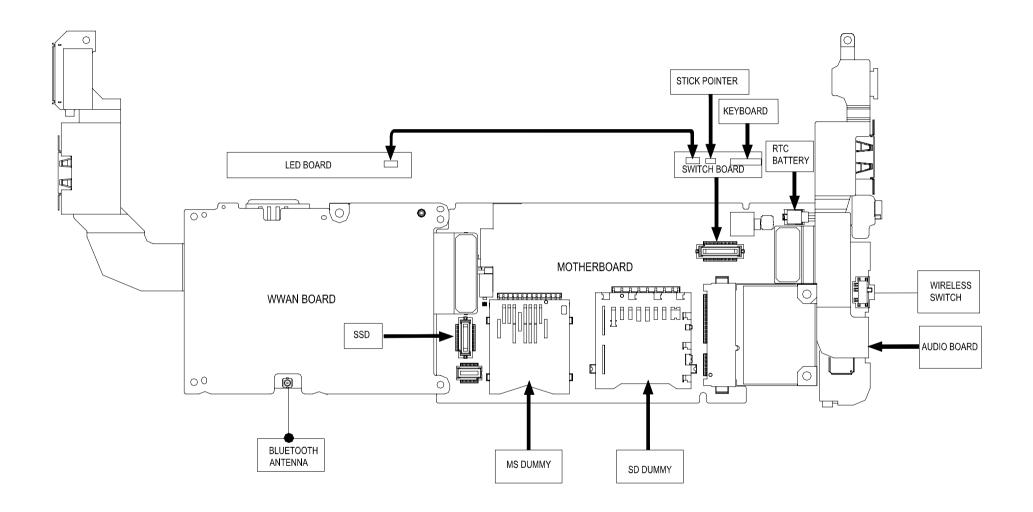


CHAPTER2. FRAME HARNESS DIAGRAM

2-1. VPCP1 Series (TOP)



2-2. VPCP1 Series (BOTTOM)



CHAPTER3. EXPLODED VIEWS AND PARTS LIST

• The parts list is compiled by blocks of a Palmrest and bottom etc.
The sections of the parts list are different depending on the model.

Please refer to list of contents shown.

Section	Page
Note	3-2
Screws	-
S-1.Screws	3-3
Palmrest	
P-1.Palmrest	3-4
Main Board	
M-1.Main Board	3-5
BOTTOM	
B-1.Bottom	3-6
HDD (SSD)	
H-1.HDD (SSD)	3-7
LCD	
L-1.LCD	3-8
ACCESSORIES	
A-1.Accessories	3-9

- Double-click on the paper clip mark in the Spec column to open the specifications list.
- To open the parts list, Microsoft office Excel or Excel viewer is required.

		Palmrest	Main Board	Bottom	HDD (SSD)	LCD	Accessories	Spec
	P119KJ/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P119KJ/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P119KJ/W	P-1	M-1	B-1	H-1	L-1	A-1	α
JP	P11AKJ*	P-1	M-1	B-1	H-1	L-1	A-1	∃ 0
	P11ALJ*	P-1	M-1	B-1	H-1	L-1	A-1	
	P11AVJ*	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/BI	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/PI	P-1	M-1	B-1	H-1	L-1	A-1	
	P110JB/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P110KL/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P110KL/BI	P-1	M-1	B-1	H-1	L-1	A-1	
	P110KL/D	P-1	M-1	B-1	H-1	L-1	A-1	
ΑМ	P110KL/G	P-1	M-1	B-1	H-1	L-1	A-1	
AIVI	P110KL/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P110KL/WI	P-1	M-1	B-1	H-1	L-1	A-1	
	P111KX/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P111KX/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P111KX/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P111KX/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P111KX/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P112KX/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P112KX/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P112KX/G	P-1	M-1	B-1	H-1	L-1	A-1	

		Palmrest	Main Board	Bottom	HDD	LCD	Accessories	Spec
	P112KX/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P112KX/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P113KX/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P113KX/D	P-1	M-1	B-1	H-1	L-1	A-1]
	P113KX/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P113KX/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P113KX/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P114KX/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P114KX/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P114KX/G	P-1	M-1	B-1	H-1	L-1	A-1	
M	P114KX/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P114KX/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P116KX/B	P-1	M-1	B-1	H-1	L-1	A-1	_ U
	P116KX/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P116KX/G	P-1	M-1	B-1	H-1	L-1	A-1	_
	P116KX/P	P-1	M-1	B-1	H-1	L-1	A-1	_
	P116KX/W	P-1	M-1	B-1	H-1	L-1	A-1	_
	P118KX/B	P-1	M-1	B-1	H-1	L-1	A-1	_
	P118KX/D	P-1	M-1	B-1	H-1	L-1	A-1	╝
	P118KX/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P118KX/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P118KX/W	P-1	M-1	B-1	H-1	L-1	A-1	=
	P11SKX/BI	P-1	M-1	_				╡
				B-1	H-1	L-1	A-1	_
	P11SKX/PI	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1E/B	P-1	M-1	B-1	H-1	L-1	A-1	9
	P11S1E/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1E/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1E/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1E/W	P-1	M-1	B-1	H-1	L-1	A-1	
ΕU	P11S1R/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1R/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1R/G	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1R/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P11S1R/W	P-1	M-1	B-1	H-1	L-1	A-1	
	P11Z9E/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P11Z9R/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P115JC/B	P-1	M-1	B-1	H-1	L-1	A-1	_
	P115JC/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P115JC/G	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115JC/P	P-1	M-1	B-1	H-1	L-1	A-1	
	P115JC/W	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115KG/B	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115KG/D	P-1	M-1	B-1	H-1	L-1	A-1	_
	P115KG/P	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115KG/W	P-1	M-1	B-1	H-1	L-1	A-1	_
	P115KK/B	P-1	M-1	B-1	H-1	L-1	A-1	4 _
40	P115KK/D	P-1	M-1	B-1	H-1	L-1	A-1	
	P115KK/P	P-1	M-1	B-1	H-1	L-1	A-1	⊣ ⋓
	P115KK/W	P-1	M-1	B-1	H-1	L-1	A-1	⊣
	P115KW/B	P-1	M-1	B-1	H-1	L-1	A-1	
	P115KW/D	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115KW/P	P-1	M-1	B-1	H-1	L-1	A-1	4
	P115KW/W	P-1	M-1	B-1	H-1	L-1	A-1	_
	P116KG/B	P-1	M-1	B-1	H-1	L-1	A-1	4
	P118JC/B	P-1	M-1	B-1	H-1	L-1	A-1	4
	P118JC/P	P-1	M-1	B-1	H-1	L-1	A-1	_
	P118JC/W	P-1	M-1	B-1	H-1	L-1	A-1	4
	P119JC/BI	P-1	M-1	B-1	H-1	L-1	A-1	
	P119JC/PI	P-1	M-1	B-1	H-1	L-1	A-1	

Note

- Parts List is attached on the upper right portion of each EXPLODED VIEW.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- The parts marks "\$" are the Reuse Parts.
- The parts marks with "&" indicates specific parts handling for Japan region.

 Disregard "&" marking for other than Japan region.
- Color after description in [] shows color variation name of the main body.
- The model that is accompanied by asterisk (*) is the CTO model.
- When replacing the HDD of RAID setting, please exchange to the same HDD that was installed.

Basically, the parts marked "●" should be used for service. The parts marked "□" in the parts list are substitution parts. If the part marked "●" is not available, you can order the parts marked "□", but it may not be stocked.

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

Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by mark contain confidential information.

Strictly follow the instructions whenever the components are repaired and/or replaced.

 If there is the Remarks column in the parts list, the features of applicable models are indicated in it for the parts that are different depending on each model.
 For the abbreviations used in the remarks column, please refer to the .

Full-Name	Short-Name	
Bluetooth	BT	
Felica	Felica	
Wireless WAN	WAN	
Wireless LAN	WLAN	
1seg Tuner	1seg	
Finger Print Sensor	FP	
Security Chip	TPM	
Flash Memory	F Mem	
Camera	Camera	

- If "No-" is described on the left side of the Short-Name, it means 'not equipped'.
 Example: "No-BT" "No-Felica" etc.
- When several descriptions are listed, each description is separated with ", (comma)" or "or". "Comma" means plus.
 Example.1: The parts for the model equipped with BT and Felica and WLAN →BT, Felica, WLAN
 Example.2: The parts for the model equipped with BT or Felica →BT or Felica
- If the color is in the remarks column, it indicates the color of parts itself.

S-1. SCREWS

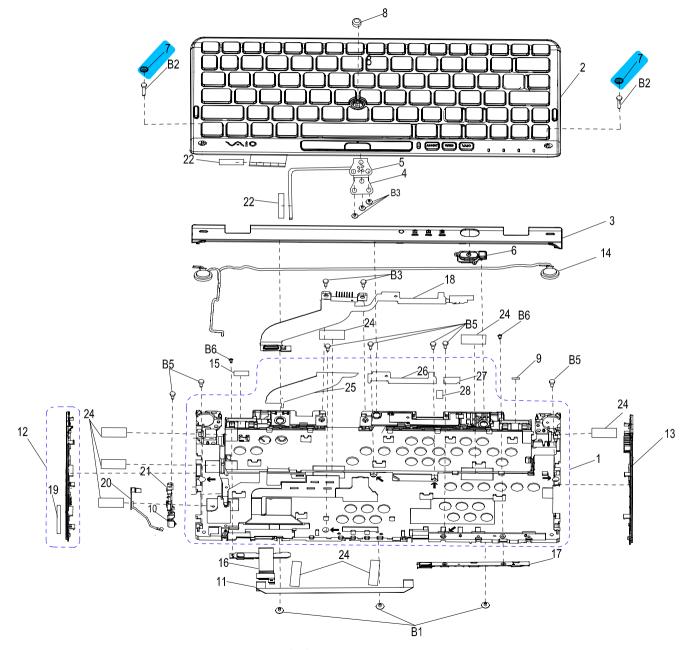


- Double-click on the paper clip mark to open the parts list.
 To open the parts list, Microsoft office Excel or Excel viewer is required.

B1	B2	В3	B4	B5	В6	В7	B8	В9
M1.7*L1.7	M1.7*L9	M2*L2	M2*L5.5	M1.7*L4	M1.7*L2.5	M2*L2.5	M1.7*L2.0	M2*L3
Black	Black	Silver	Black	Black	Silver	Black	Black	Silver

P-1. Palmrest

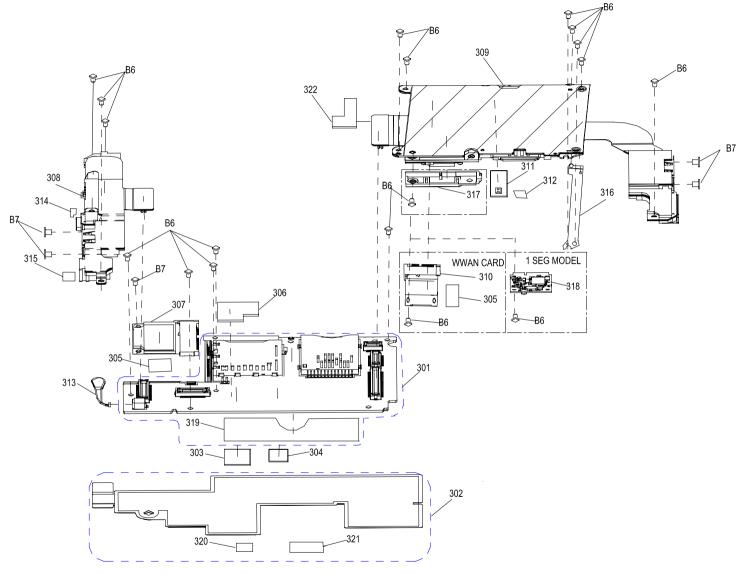
- Double-click on the paper clip mark to open the parts list.
- To open the parts list, Microsoft office Excel or Excel viewer is required.



M-1. Main Board

Parts List

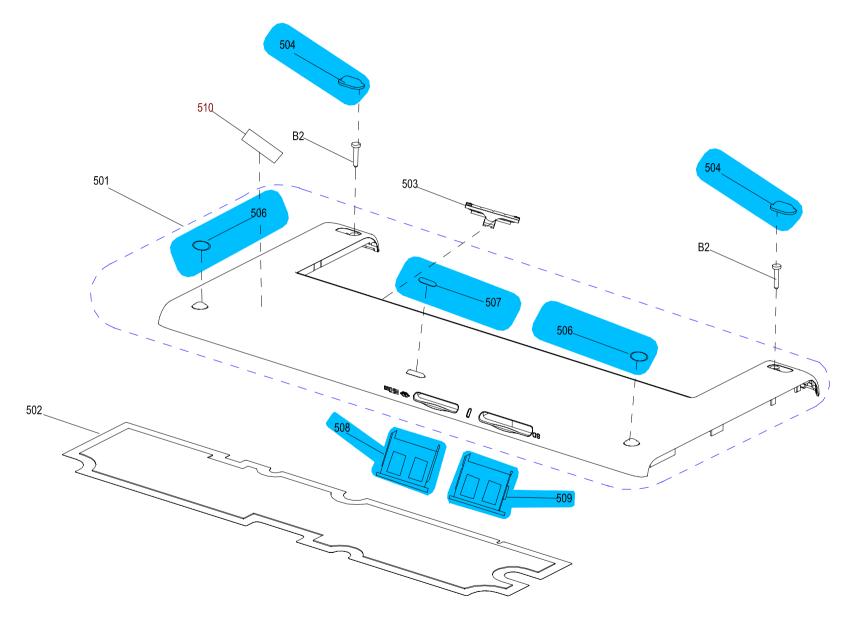
- Double-click on the paper clip mark to open the parts list.
 To open the parts list, Microsoft office Excel or Excel viewer is required.



B-1.Bottom



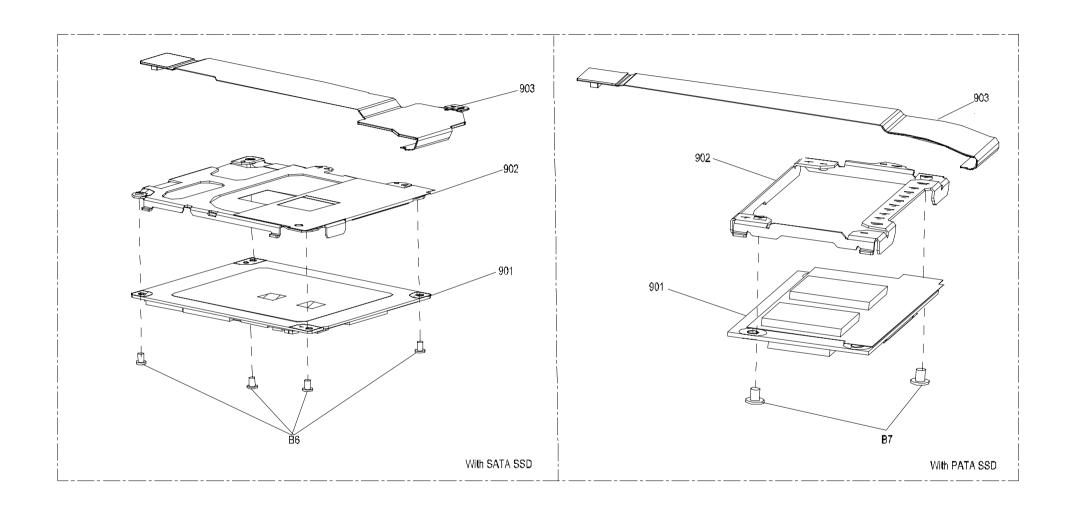
- Double-click on the paper clip mark to open the parts list.
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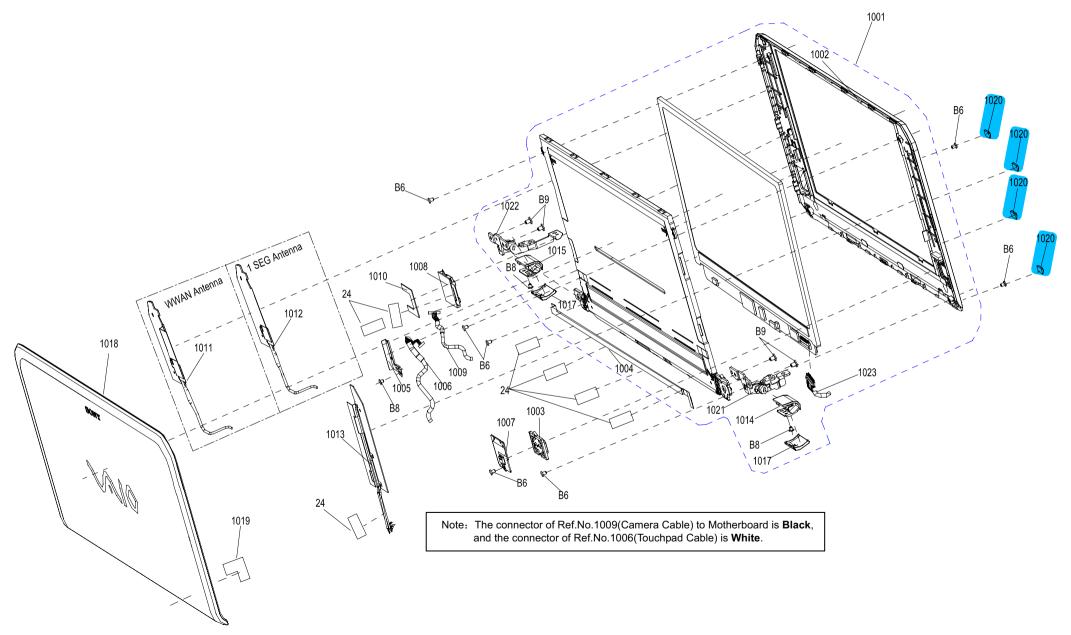
H-1.HDD (SSD)



- Double-click on the paper clip mark to open the parts list.
 To open the parts list, Microsoft office Excel or Excel viewer is required.



- Double-click on the paper clip mark to open the parts list.
 To open the parts list, Microsoft office Excel or Excel viewer is required.

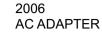


A-1. ACCESSORIES



- Double-click on the paper clip mark to open the parts list.
 To open the parts list, Microsoft office Excel or Excel viewer is required.

2005 **POWER CORD**



2007 **Battery Pack**

2009 DONGLE









2010 **HEADPHONE**



2011 STICK POINTER CAP



2013 HAND STRAP

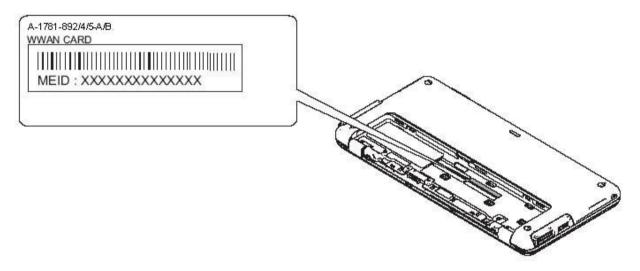


CHAPTER4. OTHERS

4-1. Note for WWAN Board Replacement

When replacing the WWAN Board (Ref.310 A-1781-892-A/A-1781-892-B/A-1781-894-A/A-1781-894-B/A-1781-895-A/A-1781-895-B), change the barcode label on the bottom.

1. Peel off the barcode label which is attached to the bottom. (Refer to the figure below.)



2. Attach the barcode label which is included with the WWAN Board to the position where you peeled off the label in the step 1.



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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2010.05.25	First Edition	
-02	Ver.2	2010.07.02	[ADD][DEL] Page3-4, Page3-5, Page3-6, Page3-8, Page3-9	
-03	Ver.3	2010.08.02	Front Page (Model Lineup), Page3-1, Page3-3, Page3-4, Page3-5, Page3-6, Page3-7, Page3-8, Page3-9 [ADD][DEL][CHG] Page3-4, Page3-6, Page3-8	

<Remarks>



Service Bulletin

SUBJECT: Caution who	NO: CNV11009	
DATE: Feb. 11, 2011	MODELS: Please refer to Model list below	Page: 1

Applicable Models:

VPCP118KX/B, P118KX/D, P118KX/G, P118KX/P, P118KX/W, P116KX/B, P116KX/D, P116KX/G, P116KX/P, P116KX/W, P114KX/B, P114KX/D, P114KX/C, P114KX/P, P114KX/W, P113KX/B, P113KX/D, P113KX/D, P113KX/P, P113KX/W, P112KX/B, P112KX/D, P112KX/C, P112KX/P, P112KX/W, P111KX/B, P111KX/D, P111KX/G, P111KX/P, P111KX/P, P111KX/W, P118KX/BI, P118KX/PI (UC) VPCP110KL/BI, P110KL/B, P110KL/D, P110KL/WI, P110KL/G, P110KL/P, P110JB/BI, P110JB/B, P110JB/D, P110JB/PI, P110JB/G, P110JB/W (LA) VPCP11Z9E/B, P11S1E/B, P11S1E/D, P11S1E/G, P11S1E/P, P11S1E/W, P11Z9R/B, P11S1R/B, P11S1R/D, P11S1R/G, P11S1R/P, P11S1R/W (E) VPCP119JC/BI, P119JC/WI, P119JC/PI, P118JC/B, P118JC/P, P118JC/W, P115JC/B, P115JC/D, P115JC/G, P115JC/P, P115JC/W, P115KG/B, P115KG/D, P115KG/P, P115KG/W, P115KW/B, P115KW/D, P115KW/P, P115KW/W, P115KK/B, P115KK/W (I)

Symptom:

Cursor may not work or may move on its own cause of stick pointer malfunction.

Cause:

If pulling out a membrane of pointer module without releasing the membrane connector lever, a contact point of the membrane may be damaged. Then the pointer module may become unstable due to the resistance value change by the damage.

Solution:

When disassembling PALMREST ASSY, handle the membrane of stick pointer module with following procedure.

- 1. Peel off the tape on the membrane connector.
- 2. Lift up and open the connector lock lever
- 3. Pull out the membrane from the connector

Operation class information:

Class 1= all recalled sets shall be repaired

Class 2= apply to any sets returned for repair

(X) Class 3= apply to sets returned for repair, when the customer identifies this symptom

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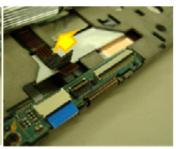


Service Bulletin

SUBJECT: Caution who	NO: CNV11009	
DATE: Feb. 11, 2011	MODELS: Please refer to Model list below	Page: 2







2. Peel off the tape on the membrane connector

3. Lift up and open the connector lock lever

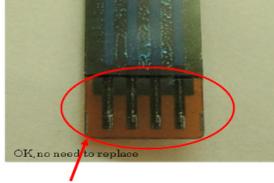
1. Pull out the membrane from the connector

P/N:1-840-489-11

When the contact point of the membrane has some damage, replace the stick pointer module to the new one.

M990 STICK POINTER MODULE





NG, need to replace to new device

Good contact point

Damaged contact point:

The carbon contact point is grinded when it is pulled up without opening the connector lock lever completely.

Operation class information:

Class 1= all recalled sets shall be repaired

Class 2= apply to any sets returned for repair

(X) Class 3= apply to sets returned for repair, when the customer identifies this symptom

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Service Bulletin

SUBJECT: Mouse Pointer Malfunction		NO: CNV11012
DATE: Jan 25, 2011	MODELS: Please refer to Model list below	Page: 1 of 1

Applicable Models:

VPCP118KX/B, P118KX/D, P118KX/G, P118KX/P, P118KX/W, P116KX/B, P116KX/D, P116KX/G, P116KX/P, P116KX/W, P114KX/B, P114KX/D, P114KX/P, P114KX/W, P113KX/B, P113KX/D, P113KX/G, P113KX/P, P113KX/W, P113KX/W, P112KX/B, P112KX/D, P112KX/P, P112KX/P, P112KX/W, P112KX/W, P111KX/B, P111KX/D, P111KX/G, P111KX/P, P111KX/W, P115KX/BI, P115KX/PI (UC) VPCP110KL/BI, P110KL/B, P110KL/D, P110KL/WI, P110KL/G, P110KL/P, P110JB/BI, P110JB/B, P110JB/D, P110JB/PI, P110JB/G, P110JB/W (LA) VPCP11Z9E/B, P1151E/B, P1151E/D, P1151E/G, P1151E/P, P1151E/W, P11Z9R/B, P1151R/B, P1151R/D, P1151R/B, P1151R/D, P1151R/D, P1151R/D, P1151C/PI, P1151C/P, P115JC/P, P115JC/W, P116KG/B, P115KG/B, P115KG/D, P115KG/P, P115KG/W, P115KW/B, P115KW/D, P115KW/P, P115KW/W, P115KK/B, P115KK/D, P115KK/P, P115KK/W (I)

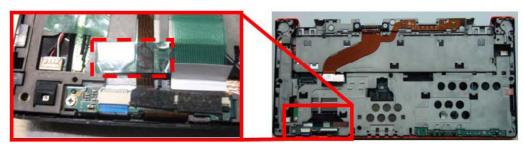
Symptom:

Mouse pointer may move on its own due to the FFC floating.

Solution:

When the above symptom is confirmed, add the below tape to fix the pointer FFC. And also when PC is disassembled such that the tape can be added Perform this measure regardless of the defective symptom.

M990 TAPE HARNESS



P/N: 4-185-602-01

Operation class information:

Class 1= all recalled sets shall be repaired

(X) Class 2= apply to any sets returned for repair

Class 3= apply to sets returned for repair, when the customer identifies this symptom

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