VGN-C Series

VGN-C SERIES



VGN-C Series – Preliminary Considerations

Safety Precautions

In order to prevent harm to both yourself and the unit, ALWAYS disconnect all peripherals and cables, and unplug the AC Adapter before performing any repairs on the unit. Shoes with non-conductive rubber soles should be worn to minimize the chance of shock or injury.

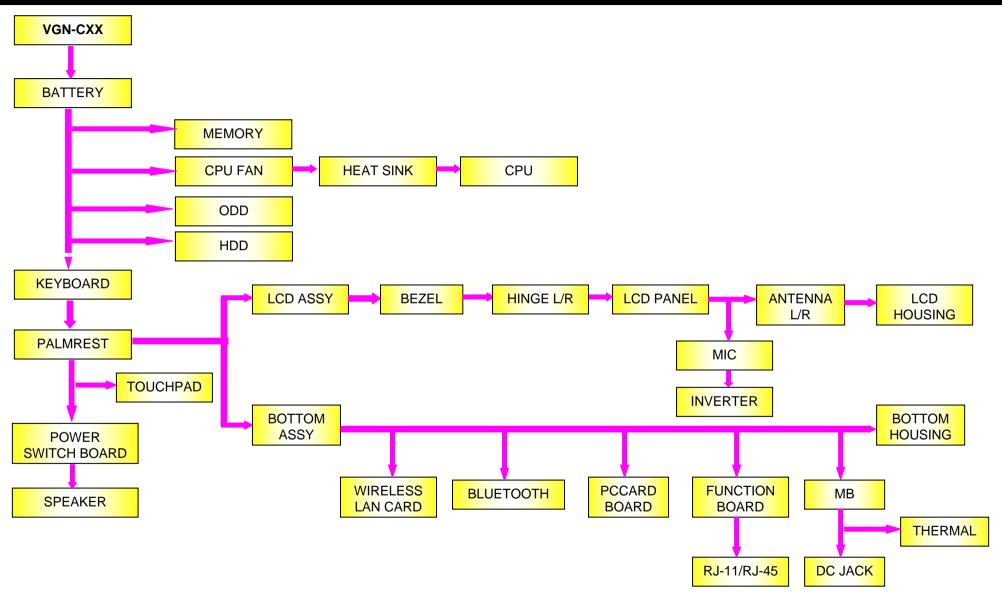
ESD Protection

The components of the VGN-C Series are susceptible to damage caused by ESD (electrostatic discharge). Always follow proper grounding procedures and utilize appropriate equipment such as a wrist grounding strap and anti-static mat when performing any repairs on the unit. If a properly grounded wrist strap is not available, touch an unpainted metal surface of the computer chassis to discharge static electricity. This should be done periodically during the repair to discharge any static charge that has been accumulated. When removing a component from the system, be sure to place it on an anti-static mat.

Cosmetic Care

Always protect both the unit and the repair surface from scratches, dings, dents, and other cosmetic damage by placing a protective mat between the unit and the repair surface. Never place an LCD face-down on an unprotected surface.

VGN-C Series – Flow Chart



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VGN-C Series - Screws



Screw needed for Disassembly

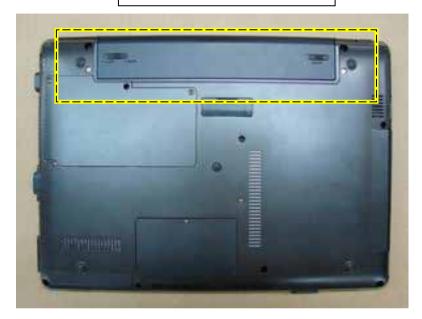
Station	Screv	v model	Amount
PC CARD BOARD	B2	M2*L2.5	2
MIC BOARD	B2	M2*L2.5	2
WLAN ANTENEN L/R	B2	M2*L2.5	2
THERMAL MODULE CPU	В3	M2*L3	2
MOTHERBOARD	В3	M2*L3	2
FUNCTION BOARD	B3	M2*L3	2
DC IN SHIELD	B3	M2*L3	2
RJ SHIELD	В3	M2*L3	2
BLUETOOTH ANTENNA	В3	M2*L3	2
TOUCHPAD GROUND WIRE	В3	M2*L3	1
SPEAKER	B3	M2*L3	4
SHELTER PLATE	В3	M2*L3	4
TOUCHPAD BUTTON	В3	M2*L3	2
POWER SWITCH BOARD	В4	M2*L3.5	3
PALMREST (ODD)	B4	M2*L3.5	3
HINGE COVER L/R	B5	M2*L4	4
LCD PANEL	B5	M2*L4	2
HINGE L/R	B5	M2*L4	6
THERMAL FAN	B5	M2*L4	4
THERMAL MODULE CPU	B5	M2*L4	4
LCD BEZEL	B5	M2*L4	4

Station	Screw model		Amount
THERMAL MODULE VGA	B6	M2*L7	2
CPU COVER	B6	M2*L7	2
PALMREST (BOTTOM)	В6	M2*L7	8
HDD	В6	M2*L7	2
ODD	B6	M2*L7	1
PALMREST (TOP)	B6	M2*L7	2
MOTHERBOARD	В7	M2*L10	1
THERMAL MODULE (MB)	В7	M2*L10	1
PALMREST	B8	M2*L15	1
KEYBOARD	B8	M2*L15	1
ASSY LCD	B10	M3*L3	6

VGN-C Series - Battery Removal

1)

OVERVIEW-BACK





PRESS THE UNLOCK TAB AND THE RELEASE TAB TOWARDS THE CENTER OF THE BATTERY. SLIDE THE BATTERY AWAY THE SYSTEM.

VGN-C Series - Memory Removal

1)



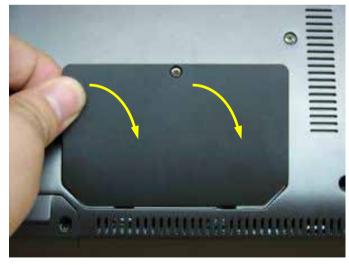
LOOSEN ONE RETAINED SCREW

3)

4)



GENTLY PRESS THE CLIPS AWAY FROM THE MEMORY MODULE AND LIFT THE MEMORY MODULE FROM THE SYSTEM

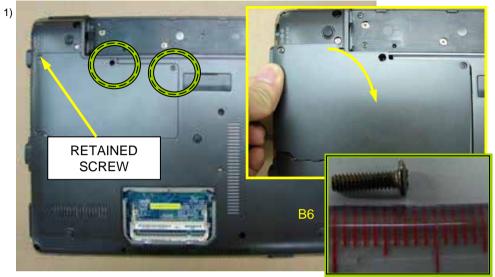


ROTATE THE RAM DOOR TOWARDS THE BOTTOM OF THE SYSTEM

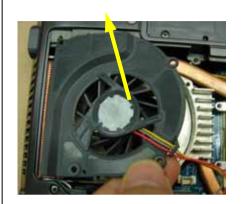


REPEAT FOR THE SECOND MEMORY MODULE

VGN-C Series - CPU Removal



REMOVE TWO SCREWS. LOOSEN ONE RETAINED SCREW. ROTATE THE CPU COVER FROM THE TOP

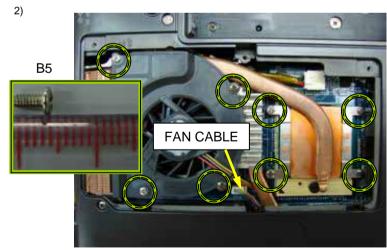


3)

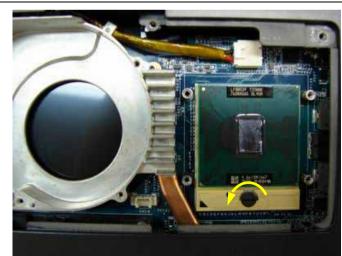
4)



LIFT THE FAN STRAIGHT UP. ROTATE THE HEATSINK TOWARDS THE EDGE OF SYSTEM AND REMOVE



DISCONNECT THE FAN CABLE. REMOVE FOUR SCREWS FROM THE FAN AND FOUR SCREWS FROM THE HEAT SINK

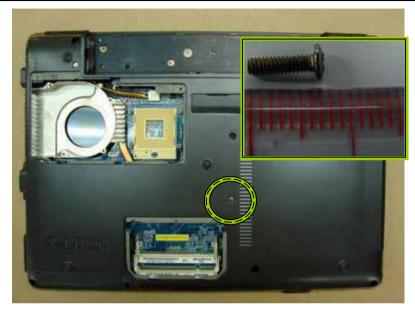


UNLOCK THE CPU SOCKET BY ROTATING THE LOCK TO THE LEFT WITH A FLAT-BLADE SCREWDRIVE. CAREFULLY LIFT THE CPU UP

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VGN-C Series - ODD Removal

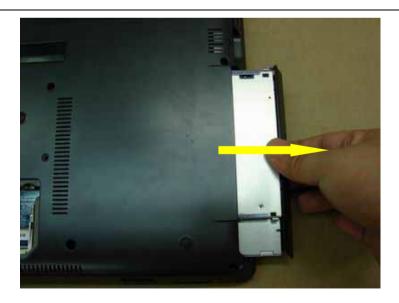
1)



B6

REMOVE ONE SCREW

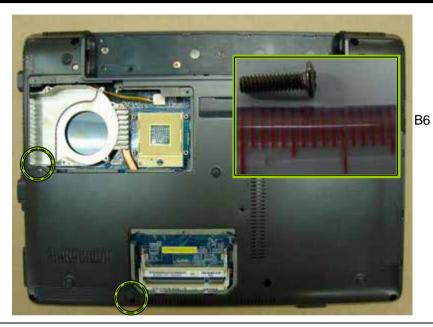
2)



SLIDE THE OPTICAL DRIVE OUT OF THE SYSTEM

VGN-C Series – Hard Drive Removal

1)



REMOVE TWO SCREWS

2)



SLIDE THE HDD TOWARDS THE FRONT OF THE SYSTEM AND REMOVE

VGN-C Series - Keyboard Removal

1)



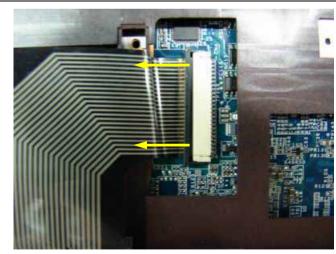
REMOVE ONE SCREW



ROTATE THE KEYBOARD TOWARDS THE FRONT OF SYSTEM



RELEASE THE FOUR KEYBOARD CLIPS



DISCONNECT THE KEYBOARD CABLE AND REMOVE

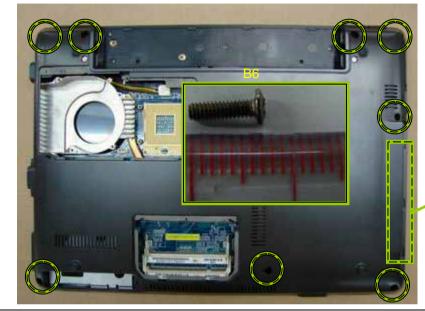
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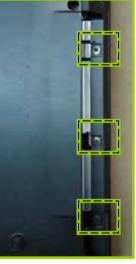
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VGN-C Series - Palmrest Removal

1)

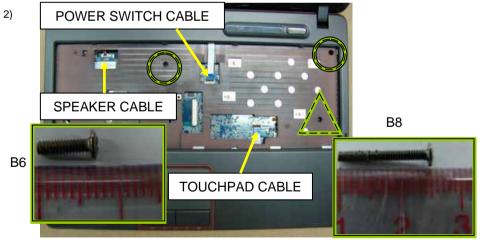




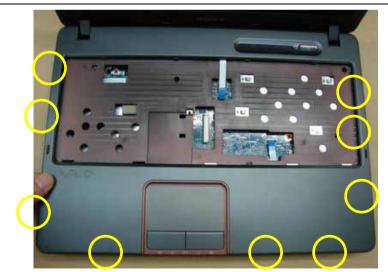


B4

REMOVE ELEVEN SCREWS FROM THE BOTTOM OF THE UNIT. NOTE THE THREE SCREWS UNDERNEATH THE ODD BAY ARE SHORTER



DISCONNECT THE SPEAKER CABLE, POWER SWITCH CABLE AND THE TOUCHPAD CABLE. REMOVE THREE SCREWS. NOTE THAT ONE IS SIGNIFICANTLY LONGER THAN THE REST



LIFT THE PALMREST UP. GENTLY RELEASING THE DETENTS

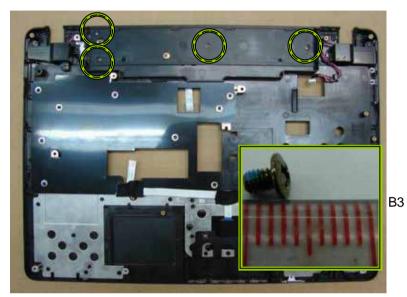
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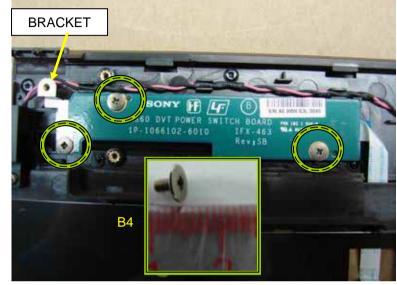
11

VGN-C Series – Power Switch Board Removal

1)



REMOVE FOUR SCREWS FROM UNDER THE BATTERY BAY

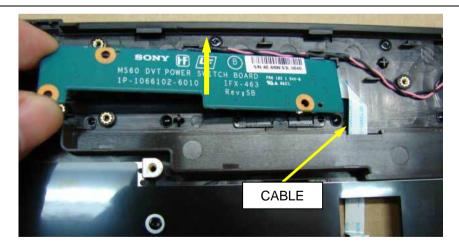


REMOVE THREE SCREWS. LIFT THE BRACKET UP

2)



ROTATE THE BATTERY BAY COVER UP FROM THE FRONT AND LIFT

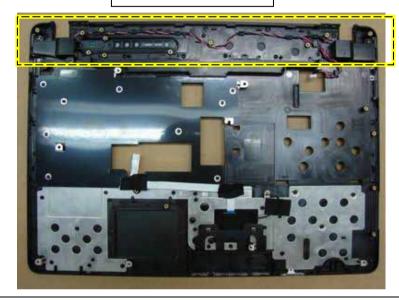


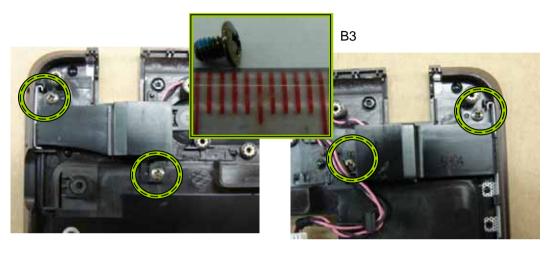
LIFT THE POWER SWITCH BOARD UP FROM THE FRONT. NOTE THE ROUTING OF CABLE

VGN-C Series - Speaker Removal

1)

OVERVIEW-FRONT





REMOVE TWO SCREWS FROM EACH SPEAKER

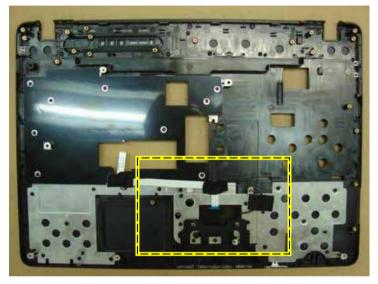
2)

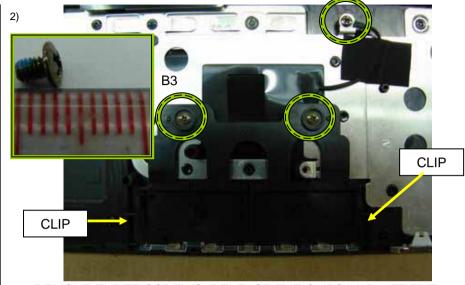


REMOVE THE SPEAKERS AND HARNESS. NOTE THE ROUTING OF THE HARNESS

VGN-C Series - Touchpad Removal

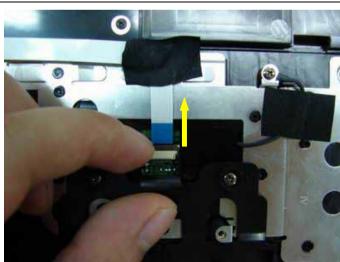
OVERVIEW-FRONT





REMOVE THREE SCREWS. RELEASE THE CLIPS AND LIFT THE TOUCHPAD BUTTONS UP





DISCONNECT THE TOUCHPAD CABLE AND REMOVE

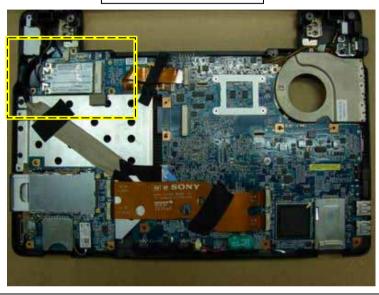


THE TOUCHPAD IS AFFIXED TO THE PALMREST WITH DOUBLE-SIDED ADHESIVE

VGN-C Series – Wireless LAN Card Removal

1)

OVERVIEW-FRONT



WIRELESS LAN ANTENNAS

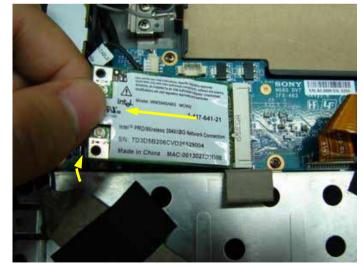


DISCONNECT THE TWO WIRELESS LAN ANTENNAS

2)



RELEASE THE WIRELESS CARD BY PRESSING THE TWO CLIPS AWAY FROM THE CARD

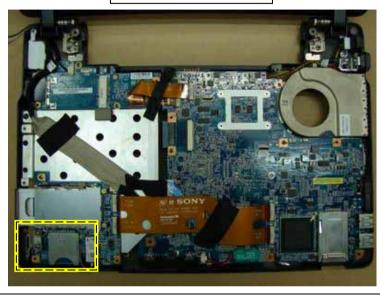


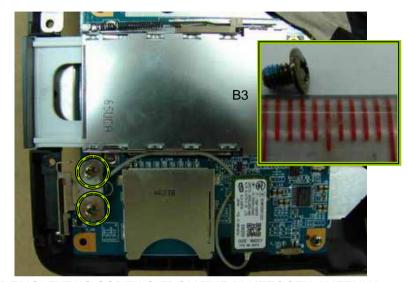
LIFT THE LEFT SIDE OF THE WIRELESS CARD UP. REMOVE THE CARD AWAY FROM THE SOCKET

VGN-C Series – Bluetooth Module and Antenna Removal

1)

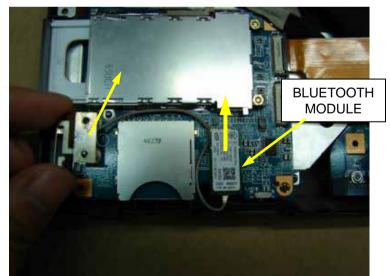
OVERVIEW-FRONT





REMOVE TWO SCREWS FROM THE BLUETOOTH ANTENNA

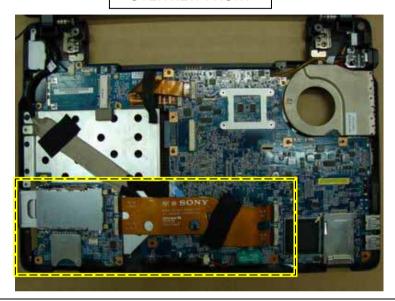
2)

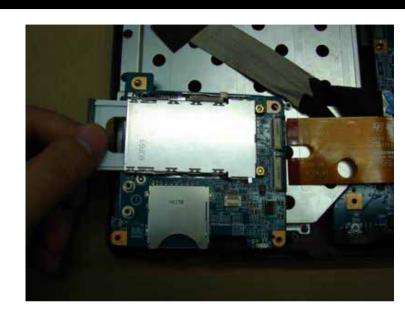


LIFT THE BLUETOOTH ANTENNA UP. LIFT THE BLUETOOTH MODULE UP

VGN-C Series – PC Card Board Removal

OVERVIEW-FRONT



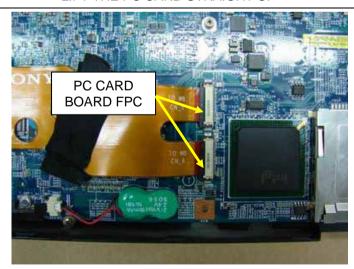


LIFT THE PC CARD STRAIGHT UP

PC CARD BOARD FPC

B2

DISCONNECT THE TWO CONNECTORS ON THE PC CARD BOARD FPC.
REMOVE TWO SCREWS.



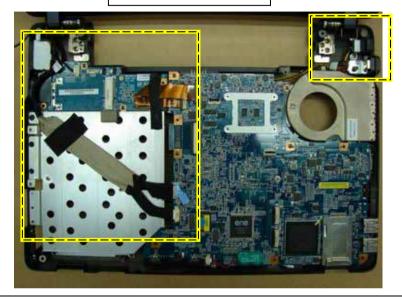
DISCONNECT THE TWO CONNECTORS ON THE PC CARD BOARD FPC AND REMOVE THE FPC

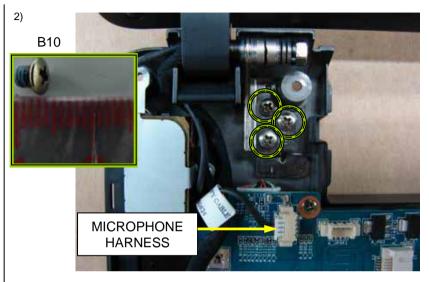
1)

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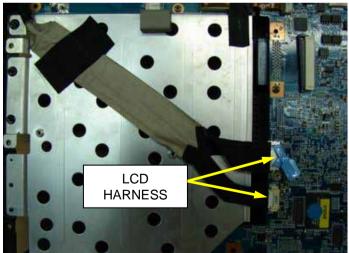
VGN-C Series – LCD Assembly Removal

OVERVIEW-FRONT

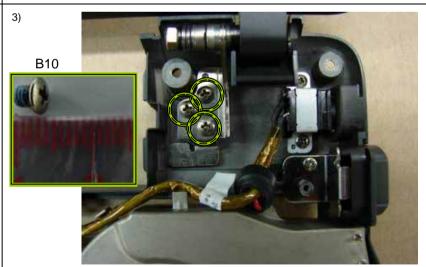




DISCONNECT THE MICROPHONE HARNESS. REMOVE THREE SCREWS FROM THE LEFT HINGE



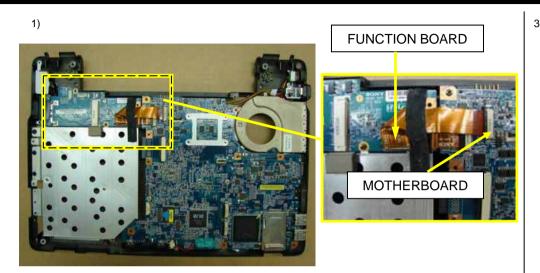
DISCONNECT THE TWO CONNECTORS ON THE LCD HARNESS



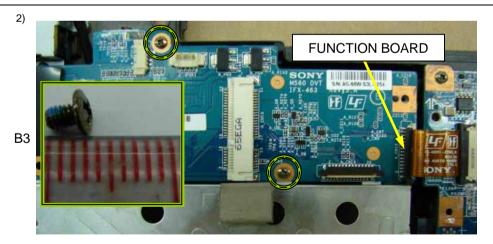
REMOVE THREE SCREWS FROM THE RIGHT HINGE AND LIFT THE LCD

ASSEMBLY STRAIGHT UP

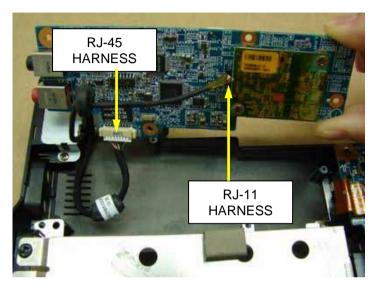
VGN-C Series – Function Board Removal



DISCONNECT THE CABLE FROM THE I/O BOARD. DISCONNECT THE CABLE FROM THE MOTHERBOARD AND REMOVE



DISCONNECT THE CABLE FROM THE I/O BOARD. REMOVE TWO SCREWS AND LIFT THE I/O BOARD UP



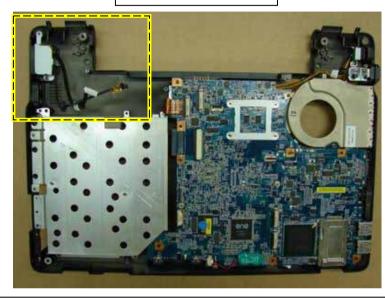
DISCONNECT THE RJ-11 HARNESS AND RJ-45 HARNESS

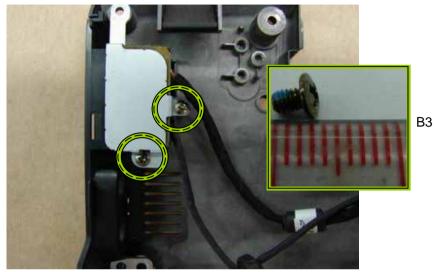
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VGN-C Series – RJ-11/RJ-45 Harness Removal

1)

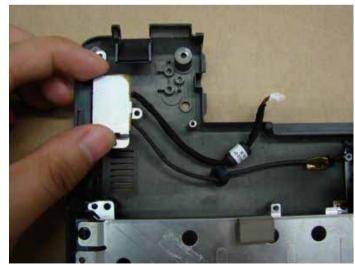
OVERVIEW-FRONT





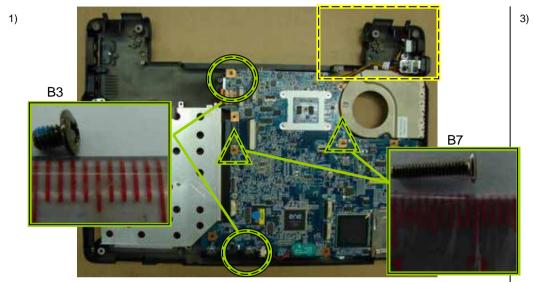
20

REMOVE TWO SCREWS FROM THE RJ-11/RJ-45 BRACKET



LIFT THE RJ-11/RJ-45 ASSEMBLY STRAIGHT UP

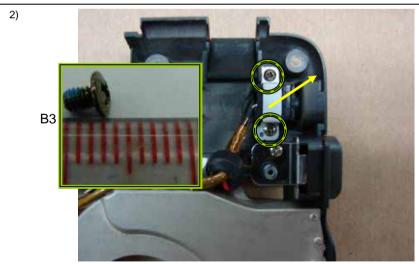
VGN-C Series – Motherboard Removal



REMOVE FOUR SCREWS FROM THE MOTHERBOARD. NOTE THERE ARE TWO DIFFERENT LENGTHS



LIFT THE LEFT SIDE OF THE MOTHERBOARD UP AND GENTLY LIFT THE MOTHERBOARD UP AND TO THE LEFT



REMOVE TWO SCREWS AND LIFT THE DC JACK BRACKET STRAIGHT UP.
NOTE THE ROUTING GUIDES



TURN THE MOTHERBOARD OVER AND REMOVE THE DC JACK HARNSS

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4)

21

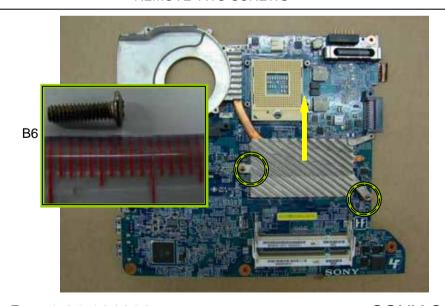
VGN-C Series – VGA Thermal Removal

1)



REMOVE TWO SCREWS

2)



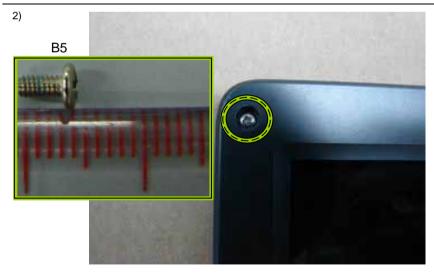
TURN THE MOTHERBOARD OVER AND REMOVE TWO SCREWS. LIFT THE VGA THERMAL UP

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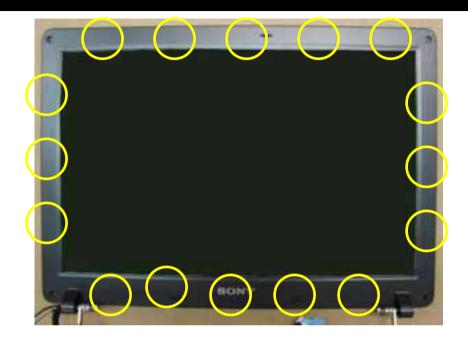
VGN-C Series – LCD Bezel Removal



REMOVE FOUR SCREW COVERS



REMOVE THE SCREW BENEATH EACH SCREW COVER

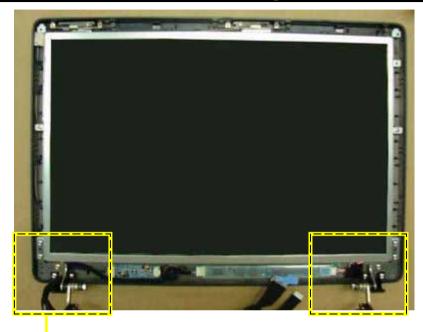


USING GENTLE PRESSURE FROM THE INSIDE EDGES. RELEASE THE SIXTEEN DERENTS AND ROTATE THE BEZEL FROM THE TOP TO RELEASE THE TABS OVER THE HINGES

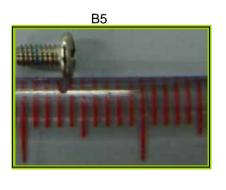
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VGN-C Series – Hinge Removal

1)

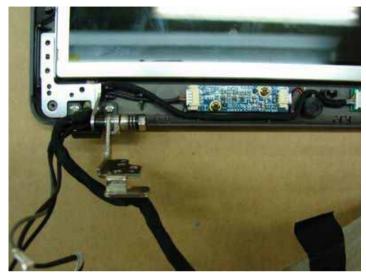




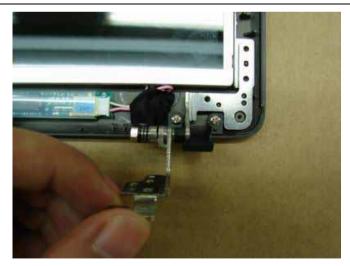


REMOVE THREE SCREWS FROM EACH HINGE

2)



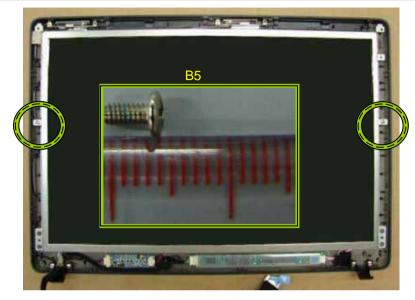
LIFT THE LEFT HINGE STRAIGHT UP. NOTE THE ROUTING OF THE HARNESS



LIFT THE RIGHT HINGE STRAIGHT UP

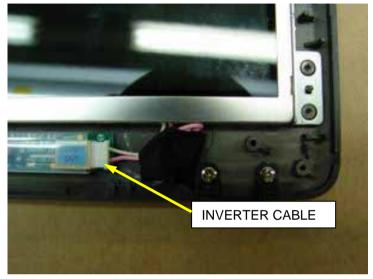
VGN-C Series – LCD Panel Removal

1)

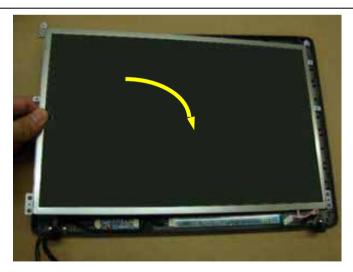


REMOVE TWO SCREWS FROM THE LCD BRACKET



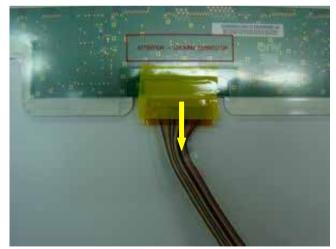


DISCONNECT THE INVERTER CABLE. NOTE THE TAPE



ROTATE THE LCD FROM THE TOP



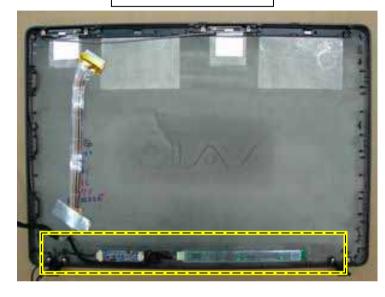


REMOVE THE TAPE AND DISCONNECT THE LCD HARNESS FROM THE REAR OF THE LCD

VGN-C Series – Inverter and Microphone Removal

1)

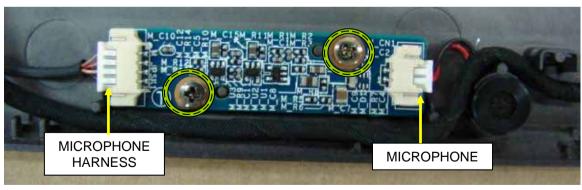
OVERVIEW-FRONT

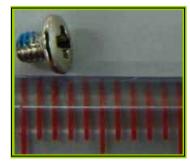




DISCONNECT THE LCD HARNESS. THE INVERTER IS AFFIXED TO THE DISPLAY HOUSING WITH DOUBLE-SIDED ADHESIVE. REMOVE THE INVERTER GENTLY ROTATING IT FROM THE TOP EDGE

2)



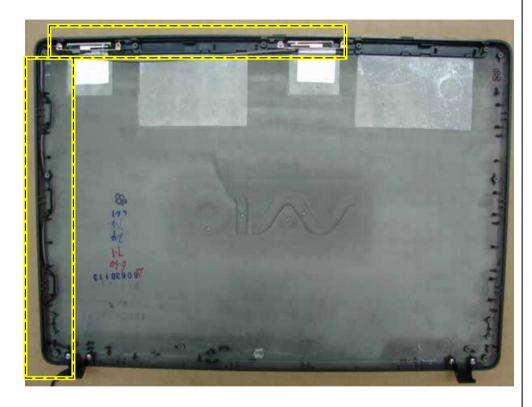


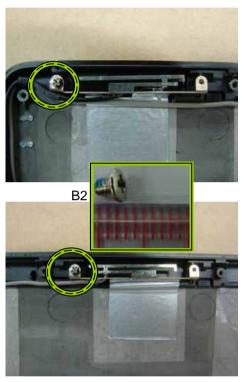
B2

REMOVE TWO SCREWS. DISCONNECT THE MICROPHONE HARNESS. LIFT THE MICROPHONE BOARD AND THE MINROPHONE UP

VGN-C Series – Antenna L/R Removal

OVERVIEW-FRONT







REMOVE TWO SCREWS. LIFT THE ANTENNA L/R UP. NOTE THE ROUTING OF THE HARNESS