VGN-C SERIES

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
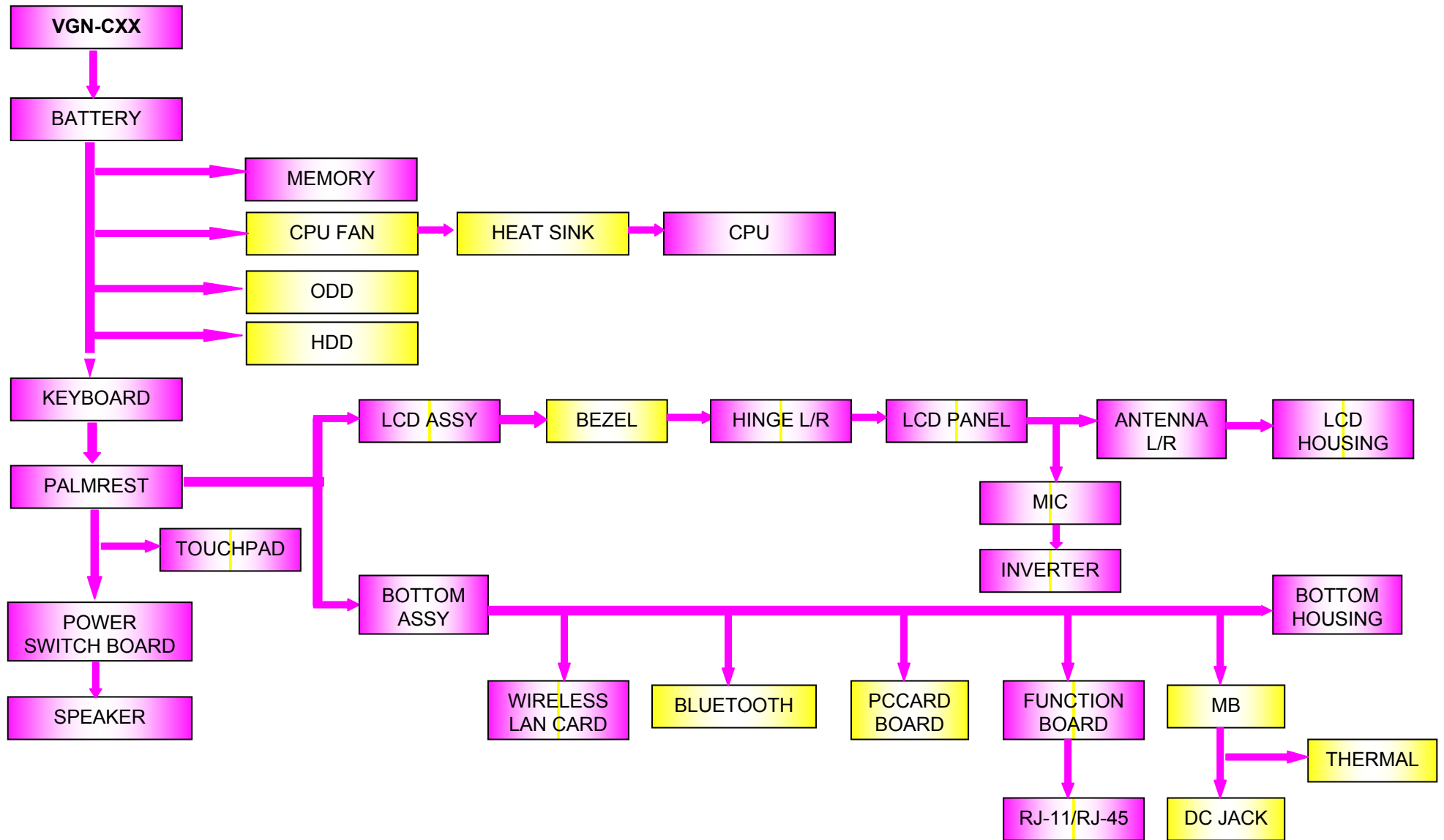
Disassemble Instruction

VGN-C Series - Screws

| B2 | B3 | B4 | B5 | B7 | B8 | B10 | B6 |

Screw needed for Disassembly

Station	Screw 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	B3	M2*L3	2
MOTHERBOARD	B3	M2*L3	2
FUNCTION BOARD	B3	M2*L3	2
DC IN SHIELD	B3	M2*L3	2
RJ SHIELD	B3	M2*L3	2
BLUETOOTH ANTENNA	B3	M2*L3	2
TOUCHPAD GROUND WIRE	B3	M2*L3	1
SPEAKER	B3	M2*L3	4
SHELTER PLATE	B3	M2*L3	4
TOUCHPAD BUTTON	B3	M2*L3	2
POWER SWITCH BOARD	B4	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)	B6	M2*L7	8
HDD	B6	M2*L7	2
ODD	B6	M2*L7	1
PALMREST (TOP)	B6	M2*L7	2
MOTHERBOARD	B7	M2*L10	1
THERMAL MODULE (MB)	B7	M2*L10	1
PALMREST	B8	M2*L15	1
KEYBOARD	B8	M2*L15	1
ASSY LCD	B10	M3*L3	6

Disassemble Instruction

VGN-C Series - Battery Removal

1)

OVERVIEW-BACK

LOCK / UNLOCK

RELEASE

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

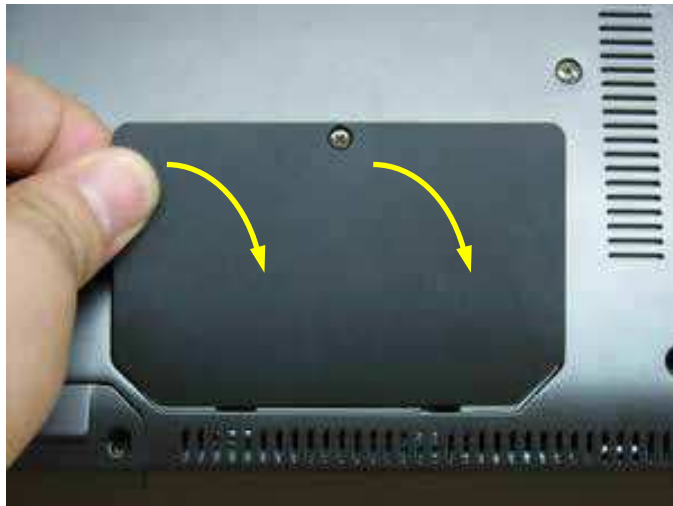# Disassemble Instruction
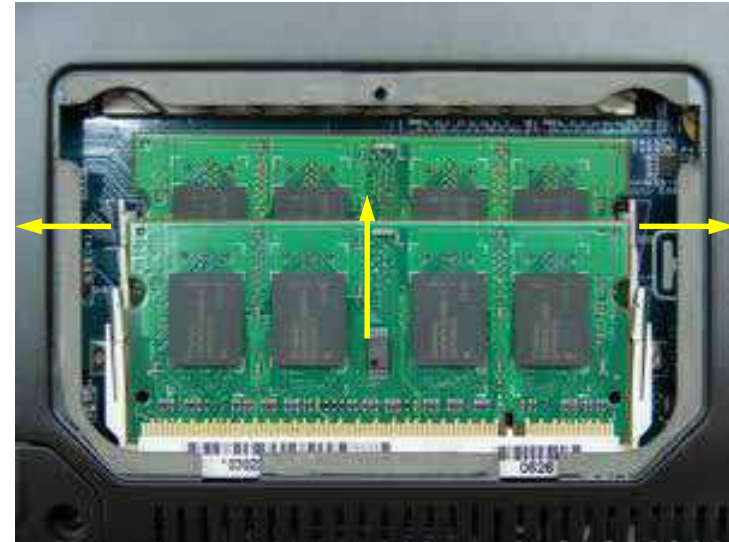
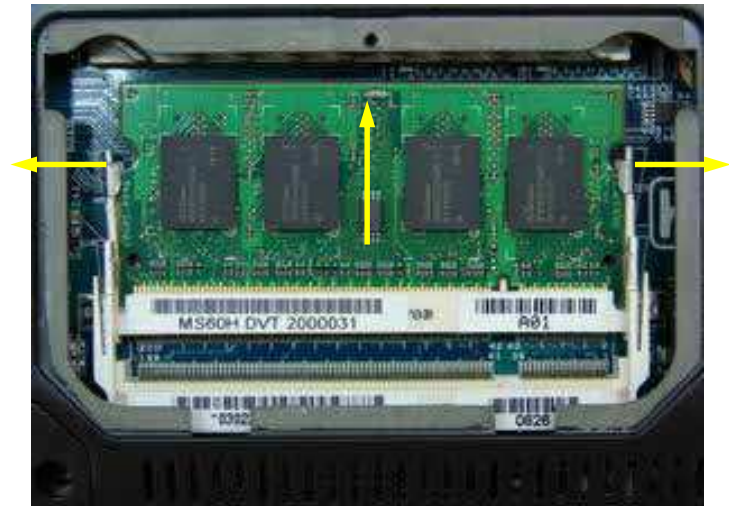## VGN-C Series - Memory Removal

1)

LOOSEN ONE RETAINED SCREW

2)

ROTATE THE RAM DOOR TOWARDS THE BOTTOM OF THE SYSTEM

3)

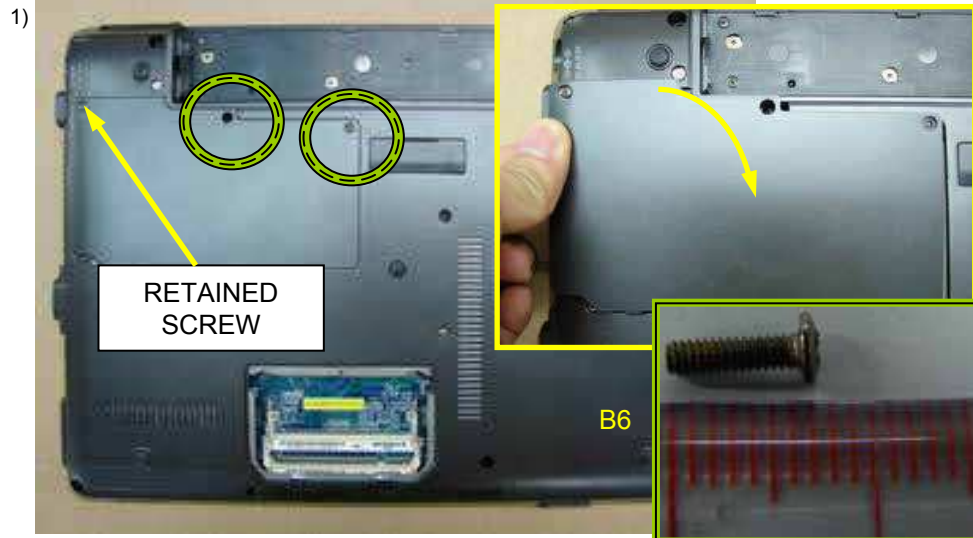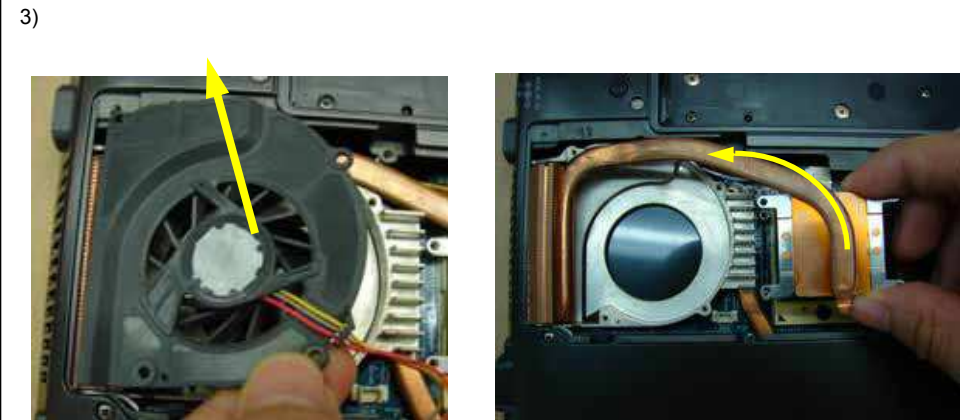GENTLY PRESS THE CLIPS AWAY FROM THE MEMORY MODULE AND LIFT THE MEMORY MODULE FROM THE SYSTEM

4)

REPEAT FOR THE SECOND MEMORY MODULE

Disassemble Instruction

VGN-C Series - CPU Removal

1)

RETAINED SCREW

B6

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

2)

B5

FAN CABLE

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

3)

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

4)
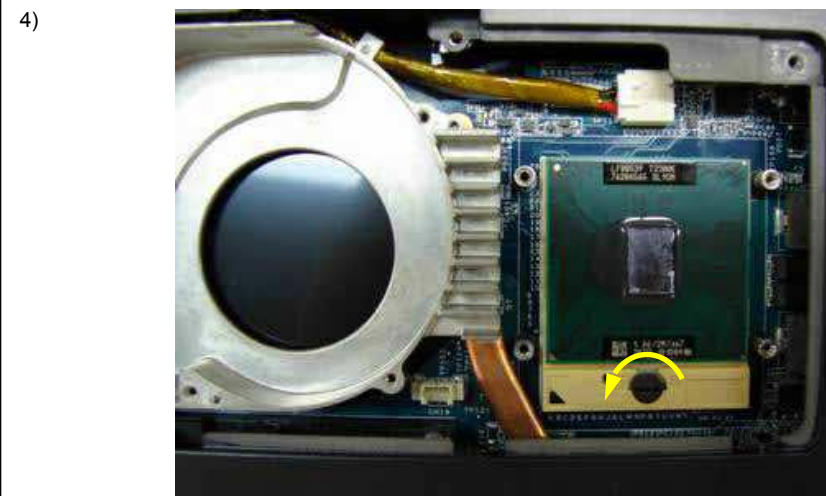
UNLOCK THE CPU SOCKET BY ROTATING THE LOCK TO THE LEFT WITH A FLAT-BLADE SCREWDRIVE. CAREFULLY LIFT THE CPU UP

Disassemble Instruction

VGN-C Series - ODD Removal

1)

B6

REMOVE ONE SCREW

2)

SLIDE THE OPTICAL DRIVE OUT OF THE SYSTEM

Disassemble Instruction

VGN-C Series – Hard Drive Removal

1)

B6
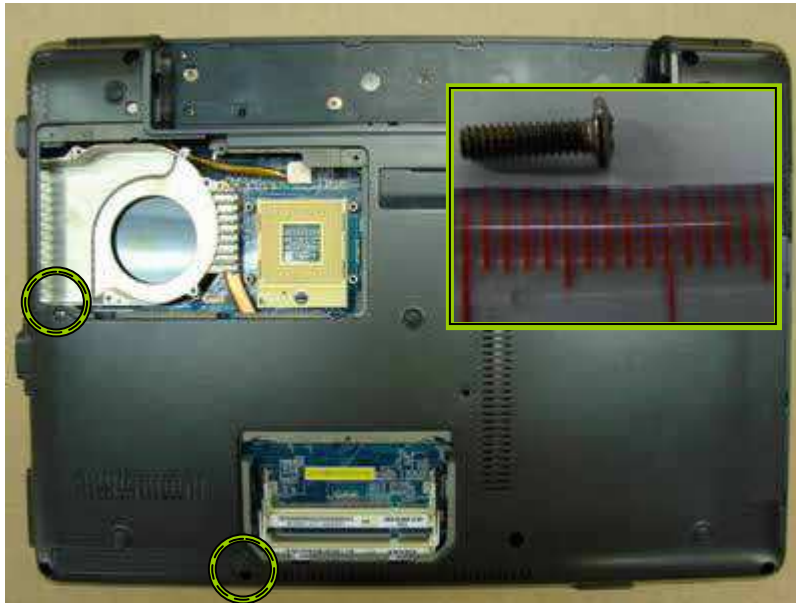
REMOVE TWO SCREWS

2)

SLIDE THE HDD TOWARDS THE FRONT OF THE SYSTEM AND REMOVE

Disassemble Instruction

VGN-C Series - Keyboard Removal

1)

REMOVE ONE SCREW

B8

3)

ROTATE THE KEYBOARD TOWARDS THE FRONT OF SYSTEM

2)

RELEASE THE FOUR KEYBOARD CLIPS

4)
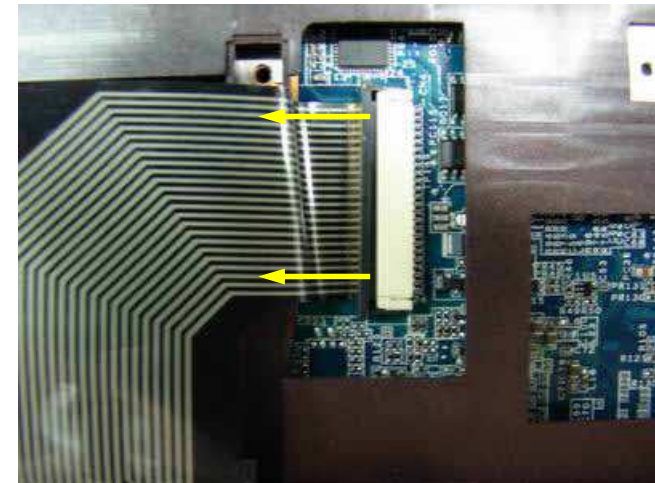
DISCONNECT THE KEYBOARD CABLE AND REMOVE

Disassemble Instruction

VGN-C Series - Palmrest Removal

1)

B6
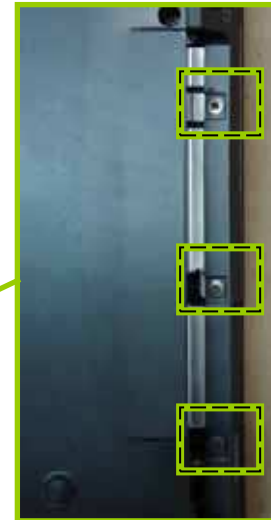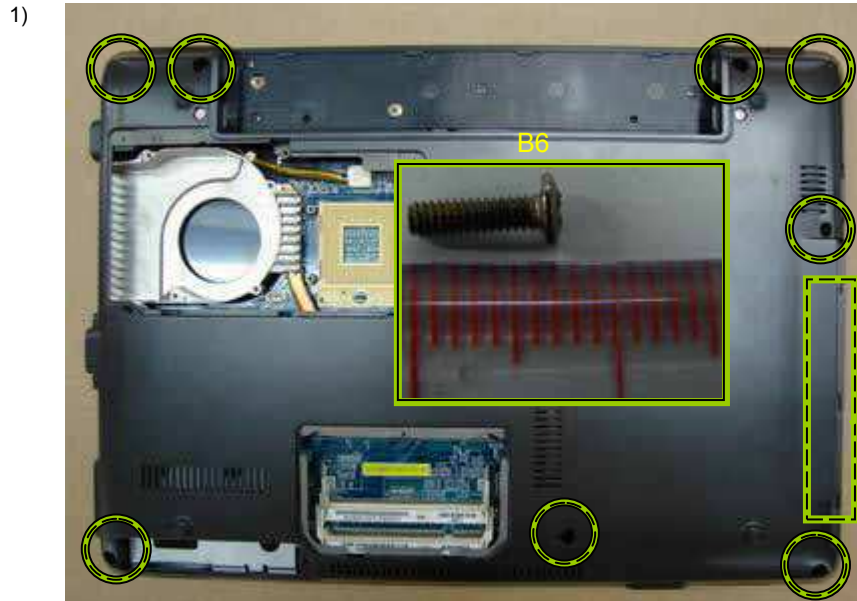
B4

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

2)

POWER SWITCH CABLE

SPEAKER CABLE

B6

TOUCHPAD CABLE

B8
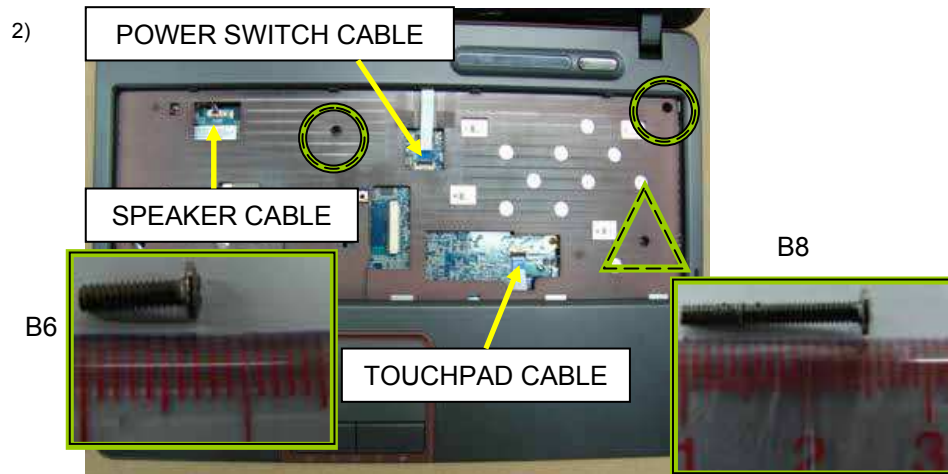
DISCONNECT THE SPEAKER CABLE, POWER SWITCH CABLE AND THE TOUCHPAD CABLE. REMOVE THREE SCREWS. NOTE THAT ONE IS SIGNIFICANTLY LONGER THAN THE REST

3)

LIFT THE PALMREST UP. GENTLY RELEASING THE DETENTS

Disassemble Instruction

VGN-C Series – Power Switch Board Removal

1)

B3
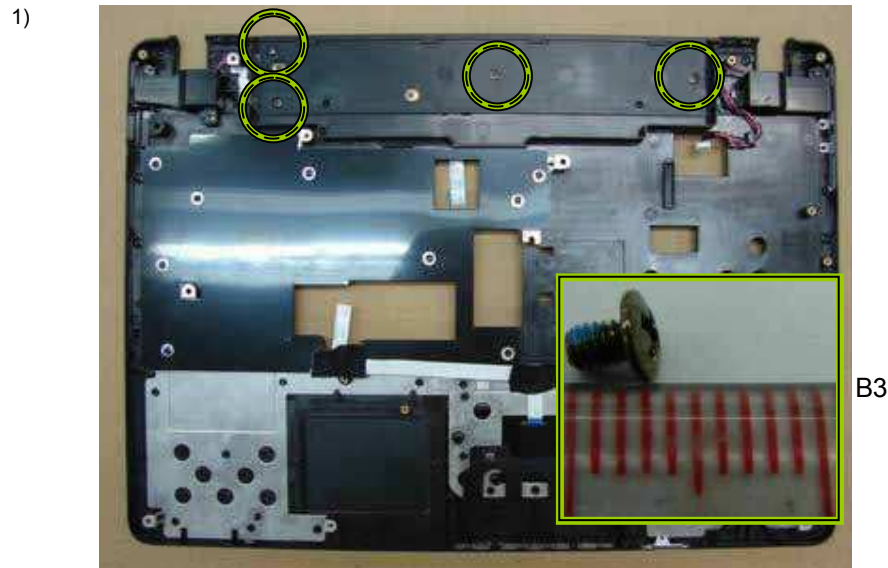
REMOVE FOUR SCREWS FROM UNDER THE BATTERY BAY

2)

ROTATE THE BATTERY BAY COVER UP FROM THE FRONT AND LIFT

3)

BRACKET

B4

REMOVE THREE SCREWS. LIFT THE BRACKET UP

4)
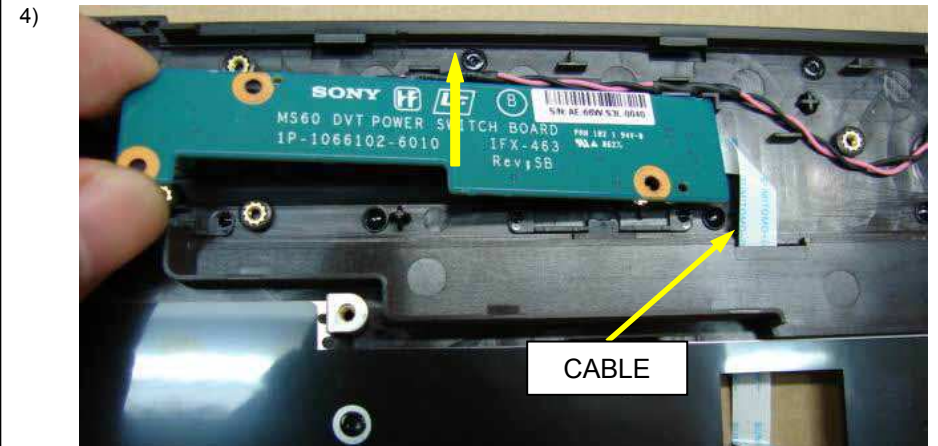
CABLE

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

Disassemble Instruction

VGN-C Series - Speaker Removal

1)

OVERVIEW-FRONT

B3
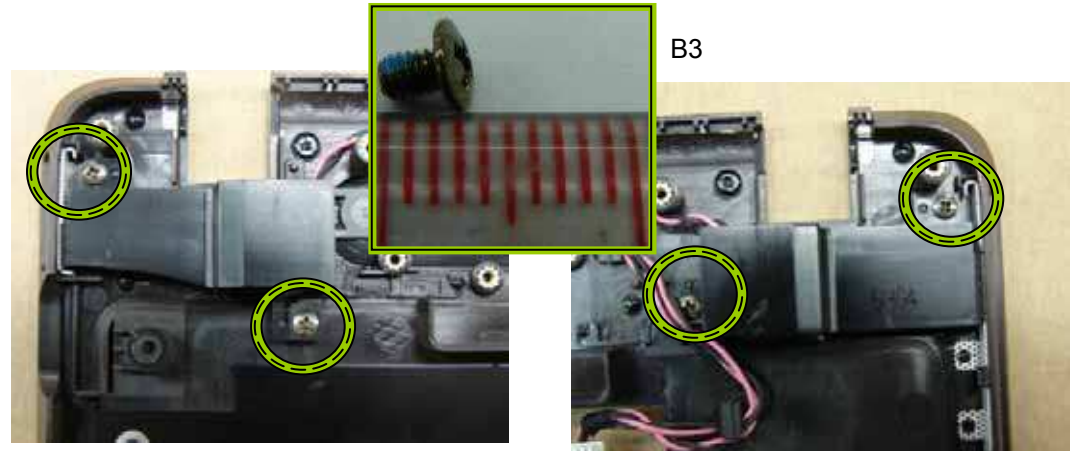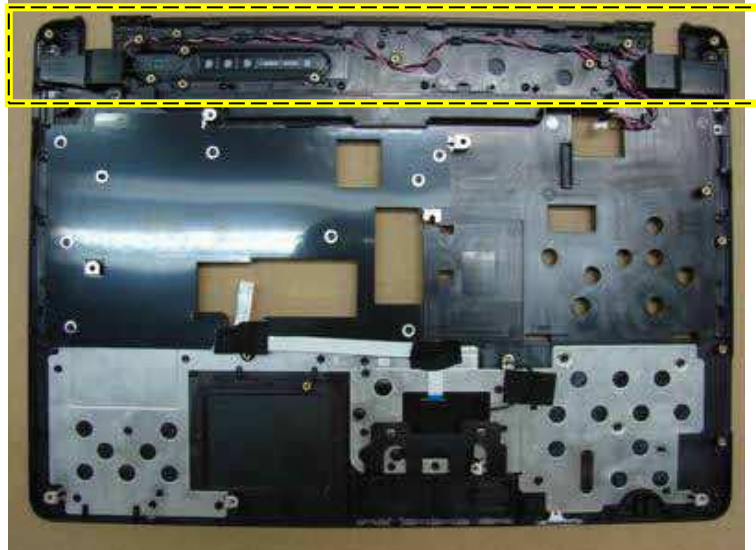
REMOVE TWO SCREWS FROM EACH SPEAKER

2)

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

Disassemble Instruction

VGN-C Series - Touchpad Removal

OVERVIEW-FRONT

2)

B3
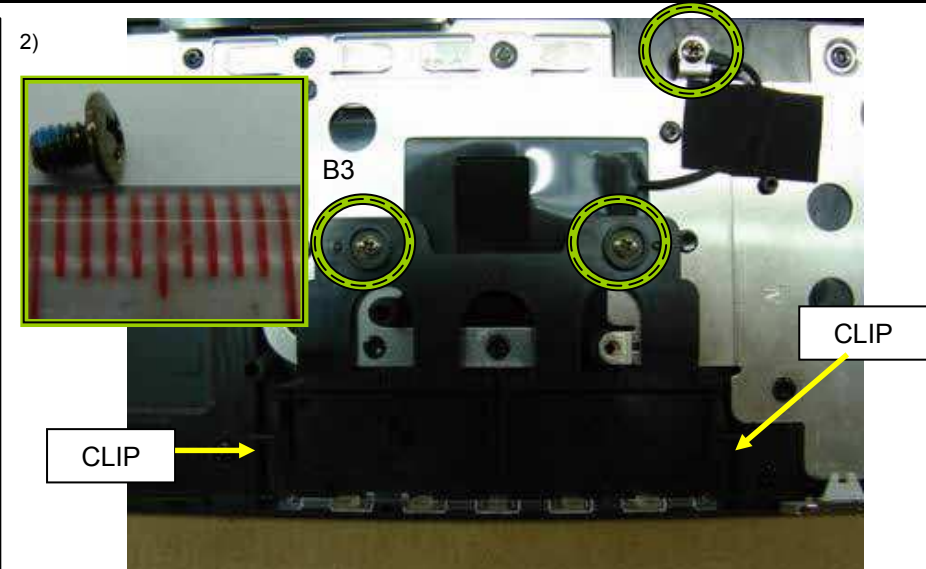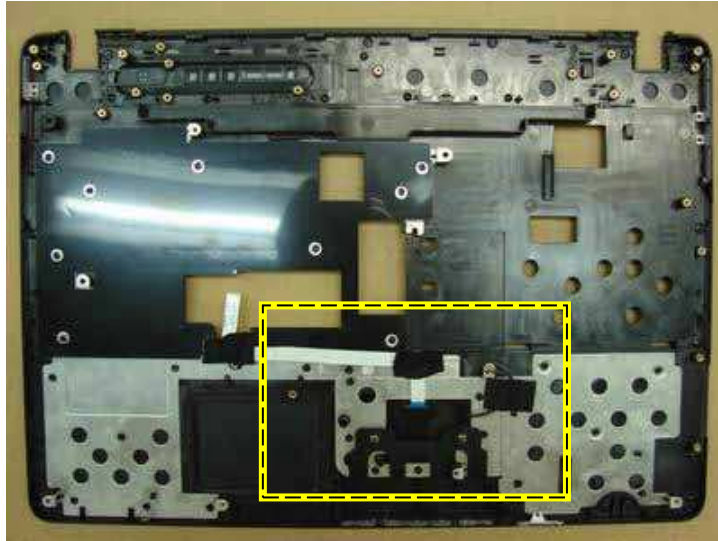
CLIP

CLIP

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

1)
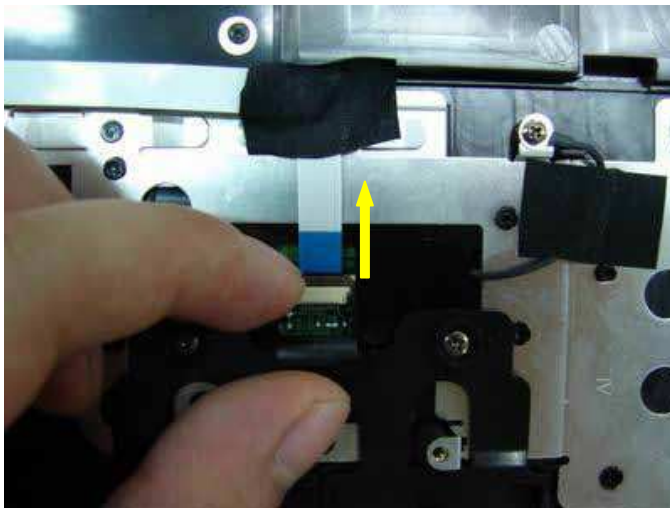
DISCONNECT THE TOUCHPAD CABLE AND REMOVE

3)

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

Disassemble Instruction

VGN-C Series – Wireless LAN Card Removal

1)

OVERVIEW-FRONT
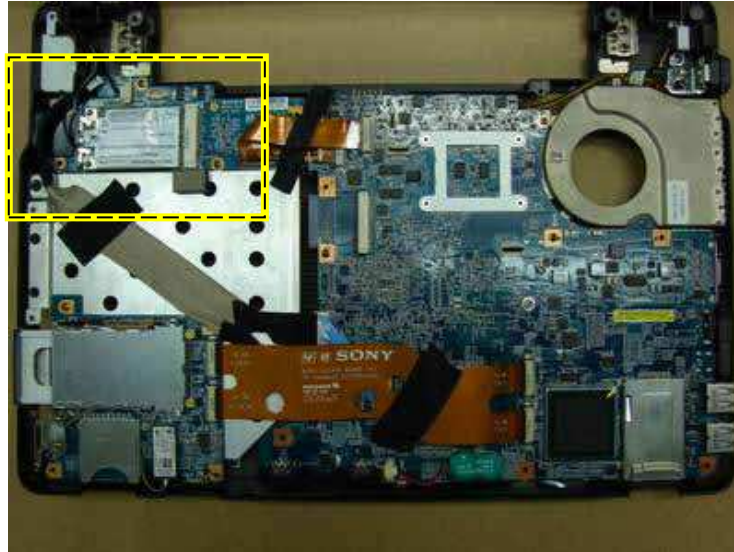
WIRELESS LAN ANTENNAS

DISCONNECT THE TWO WIRELESS LAN ANTENNAS

2)

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

3)

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

Disassemble Instruction

VGN-C Series – Bluetooth Module and Antenna Removal

1)

OVERVIEW-FRONT

B3
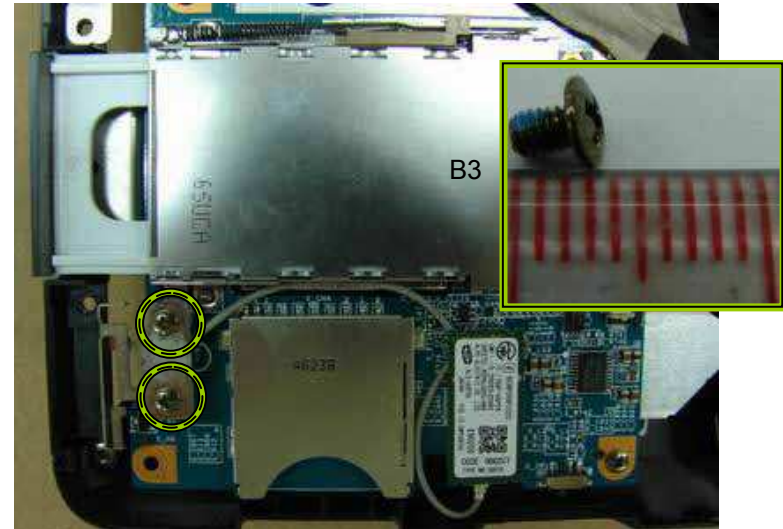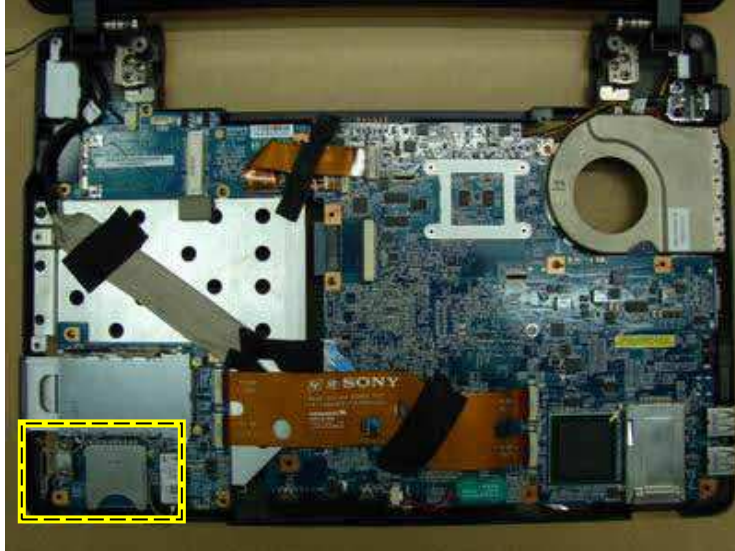
REMOVE TWO SCREWS FROM THE BLUETOOTH ANTENNA

2)
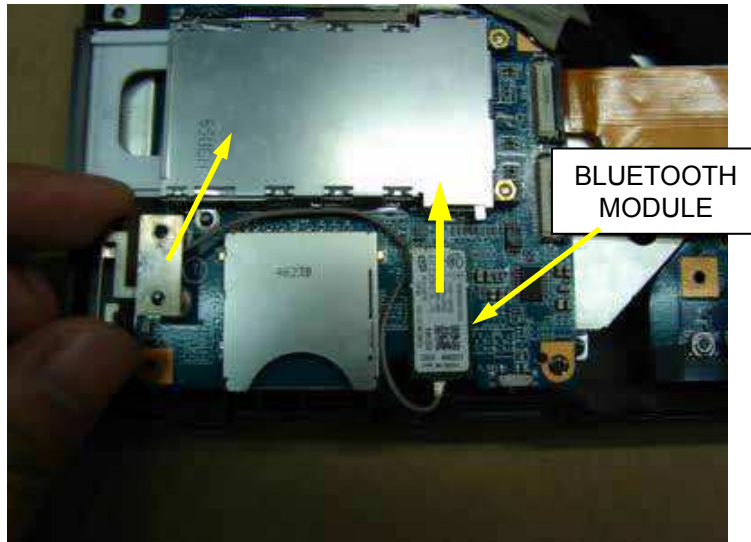
BLUETOOTH MODULE

LIFT THE BLUETOOTH ANTENNA UP. LIFT THE BLUETOOTH MODULE UP

Disassemble Instruction

VGN-C Series – PC Card Board Removal

OVERVIEW-FRONT
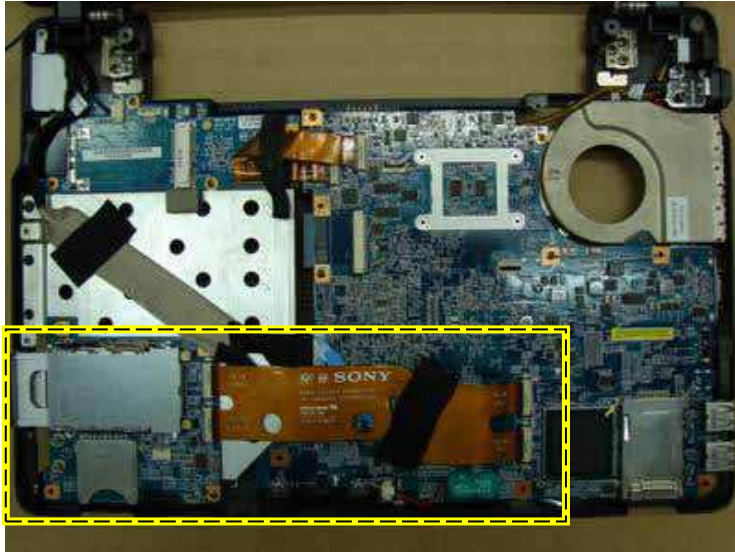
2)
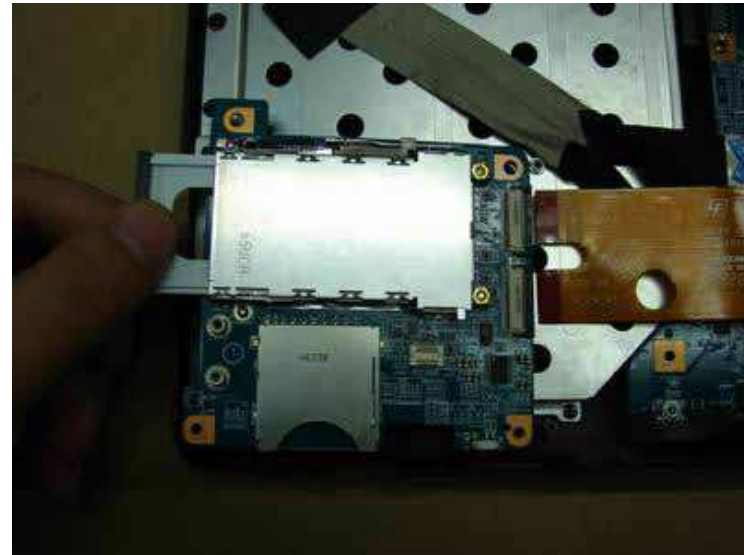
LIFT THE PC CARD STRAIGHT UP

1)

PC CARD
BOARD FPC

B2
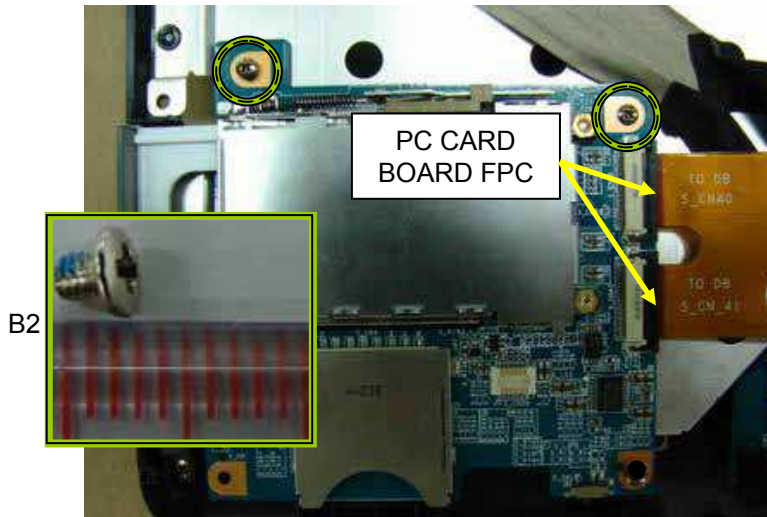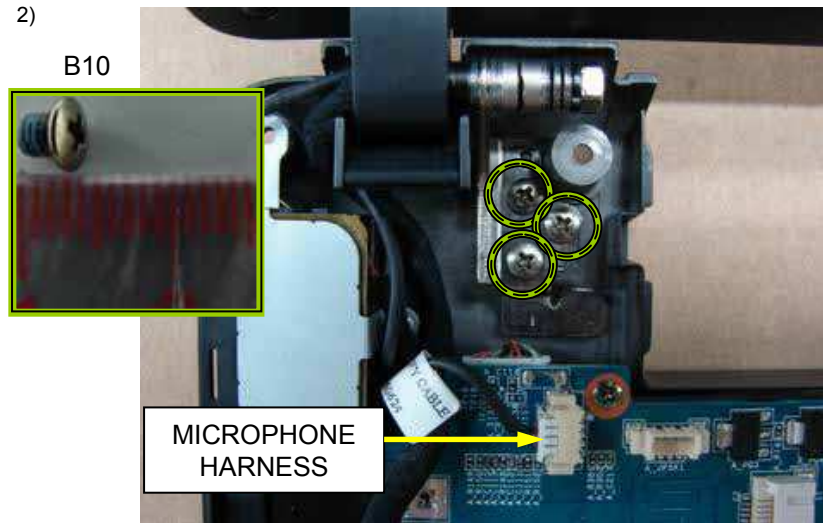
DISCONNECT THE TWO CONNECTORS ON THE PC CARD BOARD FPC.
REMOVE TWO SCREWS.

3)
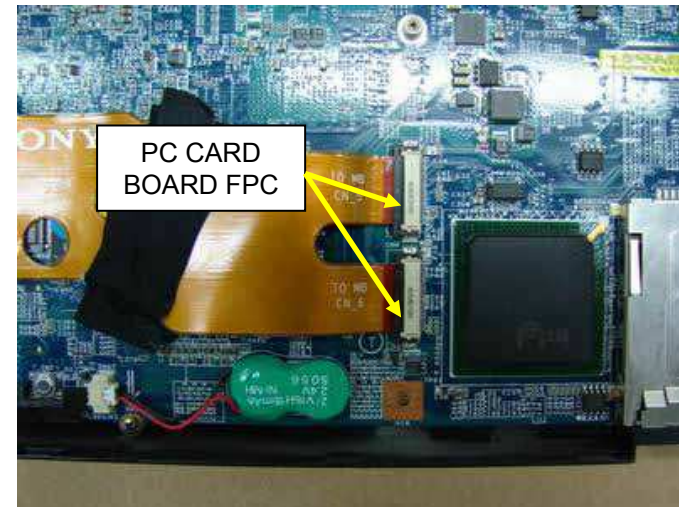
PC CARD
BOARD FPC

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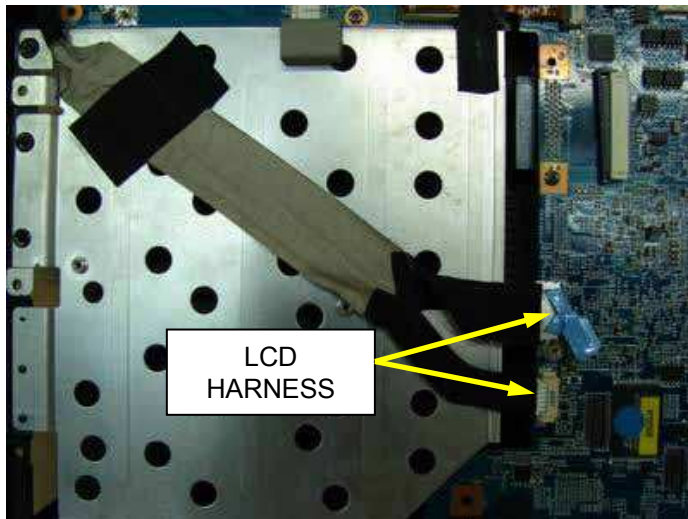AND REMOVE THE FPC

Disassemble Instruction
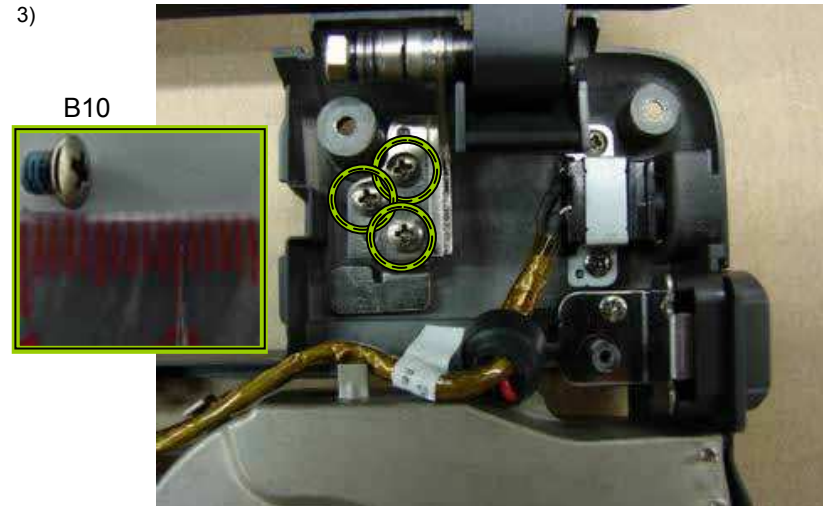
VGN-C Series – LCD Assembly Removal

OVERVIEW-FRONT

2)

B10

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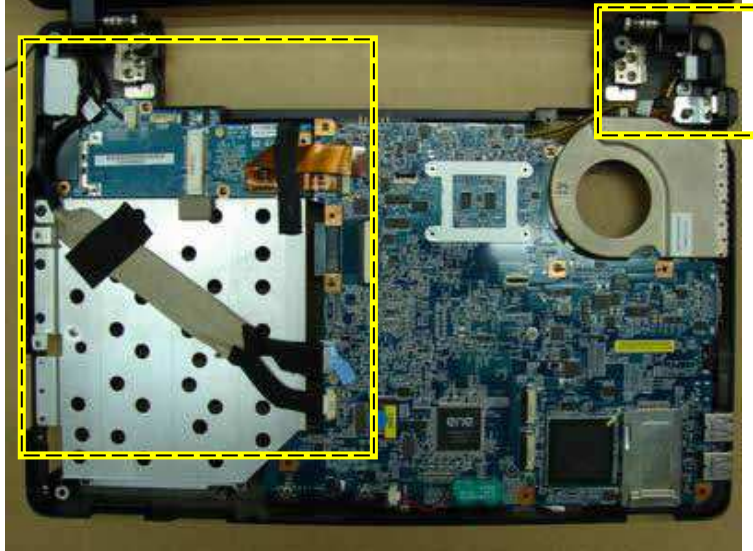
DISCONNECT THE MICROPHONE HARNESS. REMOVE THREE SCREWS FROM THE LEFT HINGE

1)

LCD HARNESS

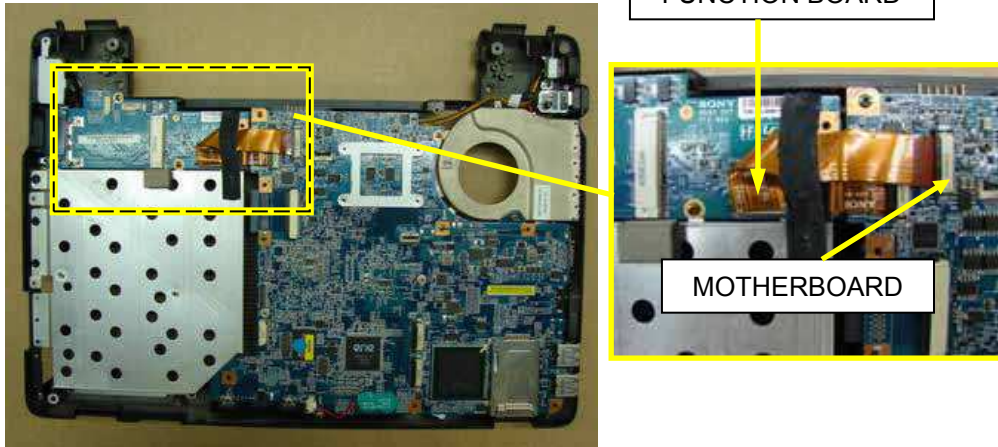DISCONNECT THE TWO CONNECTORS ON THE LCD HARNESS

3)

B10

REMOVE THREE SCREWS FROM THE RIGHT HINGE AND LIFT THE LCD ASSEMBLY STRAIGHT UP
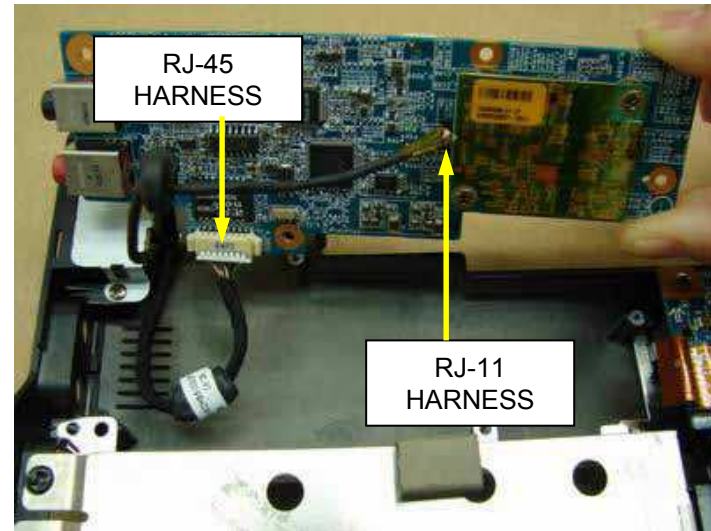
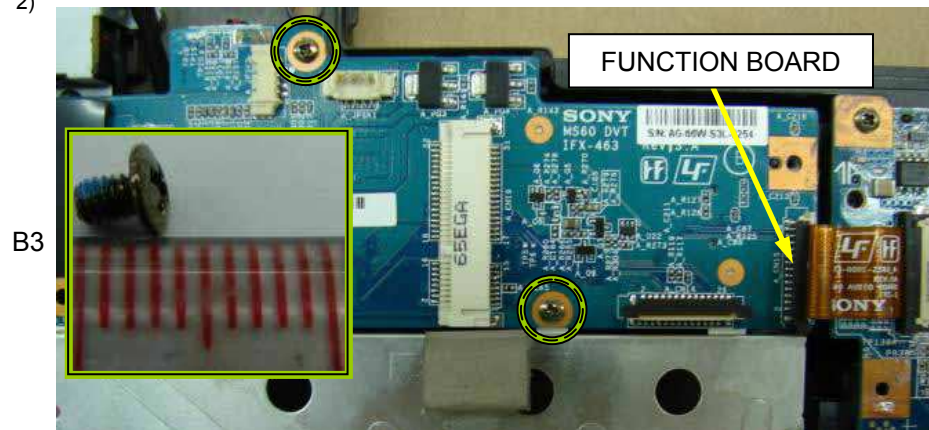# Disassemble Instruction

VGN-C Series – Function Board Removal

1)

FUNCTION BOARD

MOTHERBOARD

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

2)

B3

FUNCTION BOARD

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

3)

RJ-45 HARNESS

RJ-11 HARNESS

DISCONNECT THE RJ-11 HARNESS AND RJ-45 HARNESS

Disassemble Instruction

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

1)

OVERVIEW-FRONT
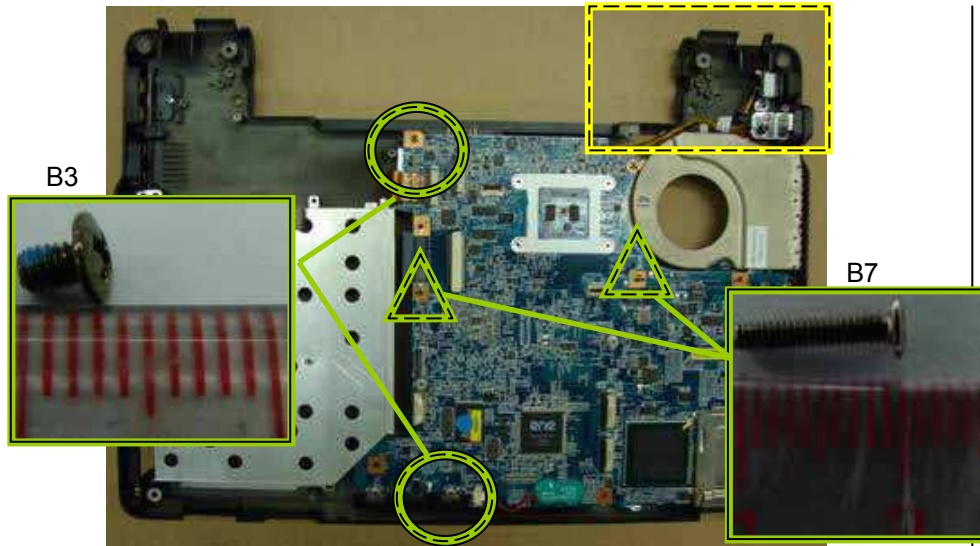

B3
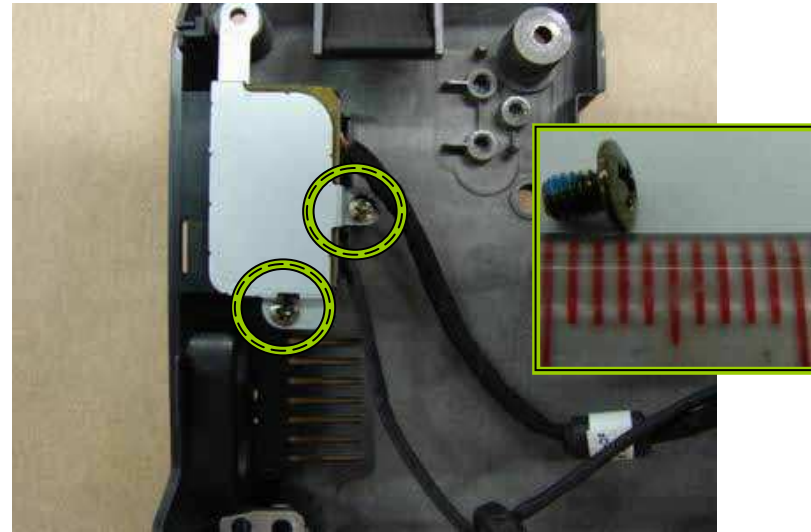
REMOVE TWO SCREWS FROM THE RJ-11/RJ-45 BRACKET

2)

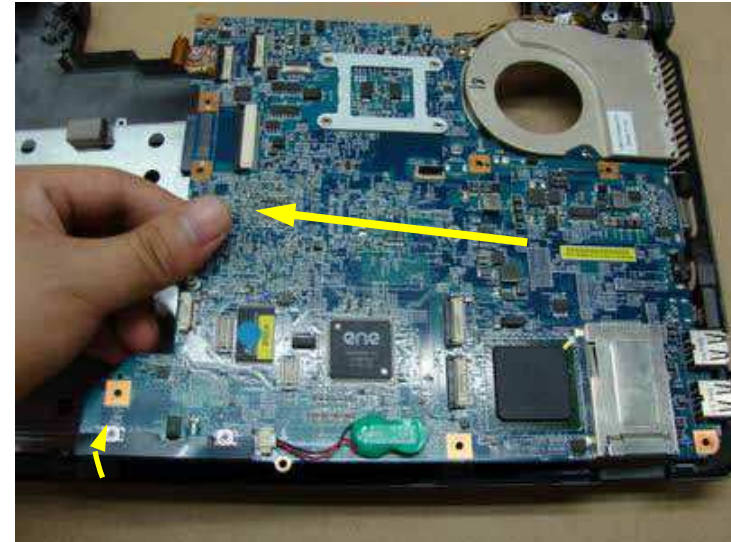LIFT THE RJ-11/RJ-45 ASSEMBLY STRAIGHT UP

Disassemble Instruction

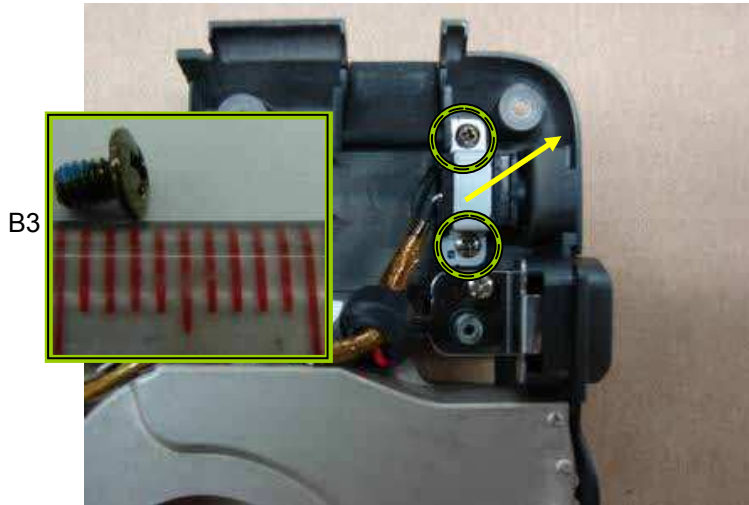## VGN-C Series – Motherboard Removal

1)

B3

B7

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

3)

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

2)

B3

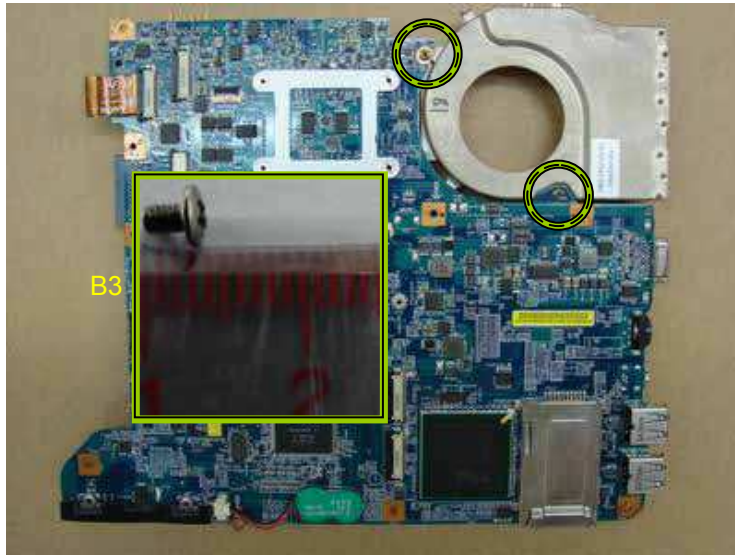REMOVE TWO SCREWS AND LIFT THE DC JACK BRACKET STRAIGHT UP. NOTE THE ROUTING GUIDES

4)

TURN THE MOTHERBOARD OVER AND REMOVE THE DC JACK HARNSS
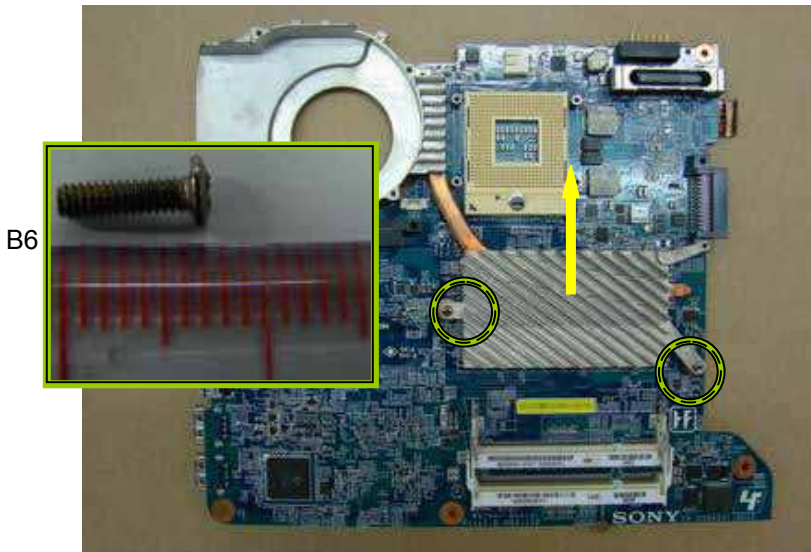
Disassemble Instruction

VGN-C Series – VGA Thermal Removal

1)

REMOVE TWO SCREWS

2)

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

Disassemble Instruction

VGN-C Series – LCD Bezel Removal

1)

REMOVE FOUR SCREW COVERS

2)

B5

REMOVE THE SCREW BENEATH EACH SCREW COVER

3)

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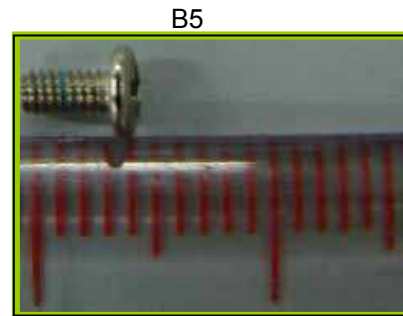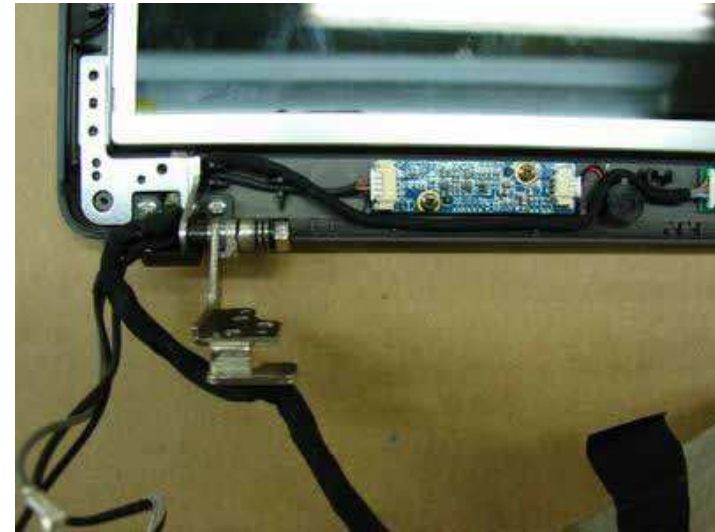TO RELEASE THE TABS OVER THE HINGES

Disassemble Instruction

VGN-C Series – Hinge Removal

1)

B5

REMOVE THREE SCREWS FROM EACH HINGE

2)

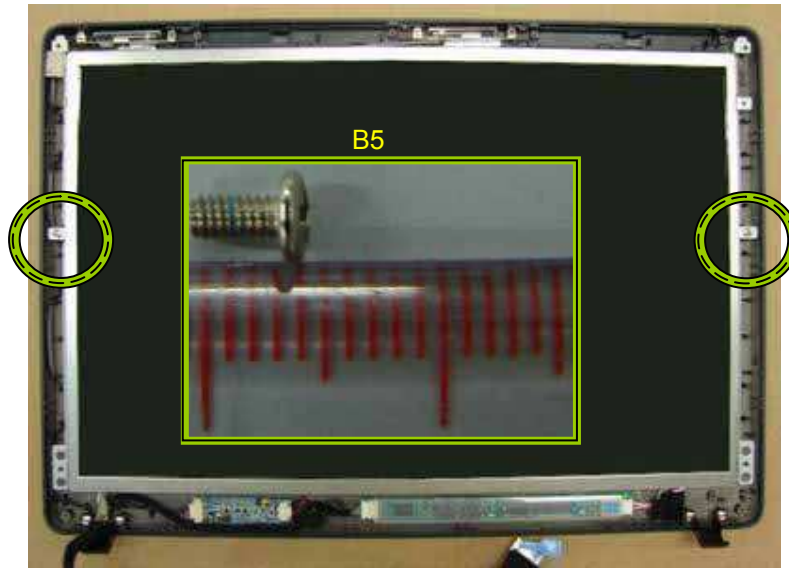LIFT THE LEFT HINGE STRAIGHT UP. NOTE THE ROUTING OF THE HARNESS

3)
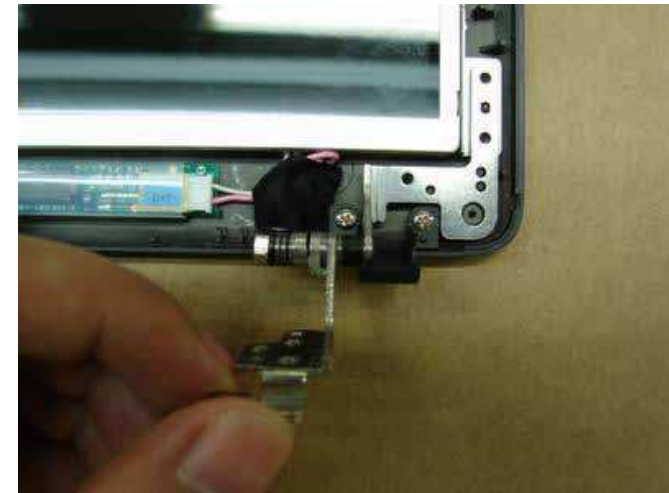
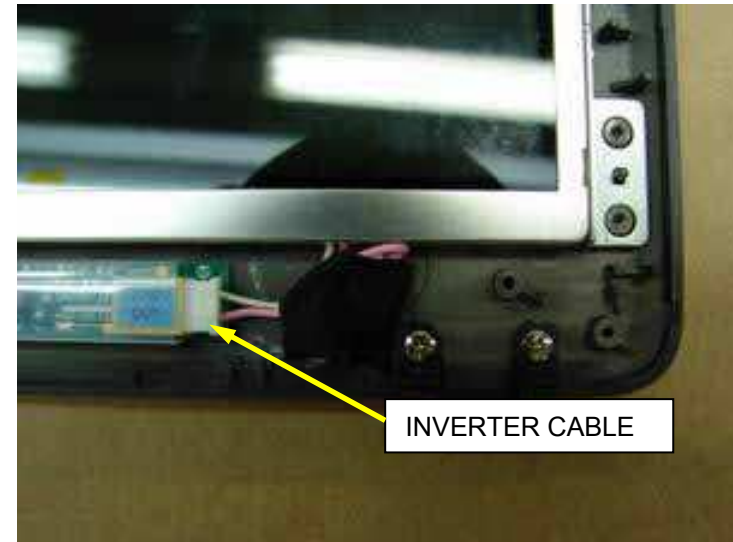LIFT THE RIGHT HINGE STRAIGHT UP

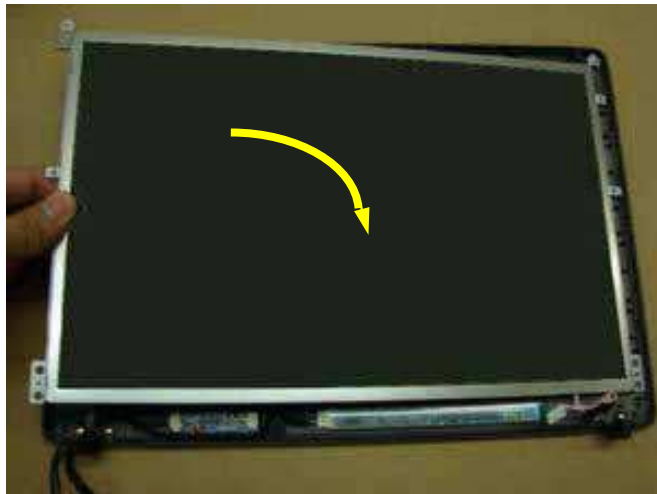# Disassemble Instruction

VGN-C Series – LCD Panel Removal

1)

B5

REMOVE TWO SCREWS FROM THE LCD BRACKET
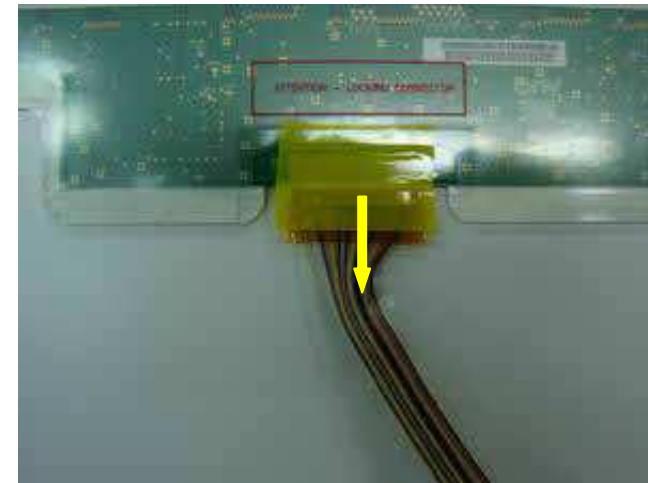
3)

INVERTER CABLE

DISCONNECT THE INVERTER CABLE. NOTE THE TAPE
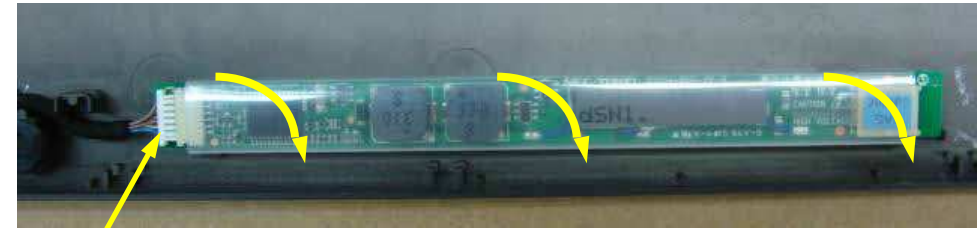
2)

ROTATE THE LCD FROM THE TOP

4)

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

Disassemble Instruction

VGN-C Series – Inverter and Microphone Removal
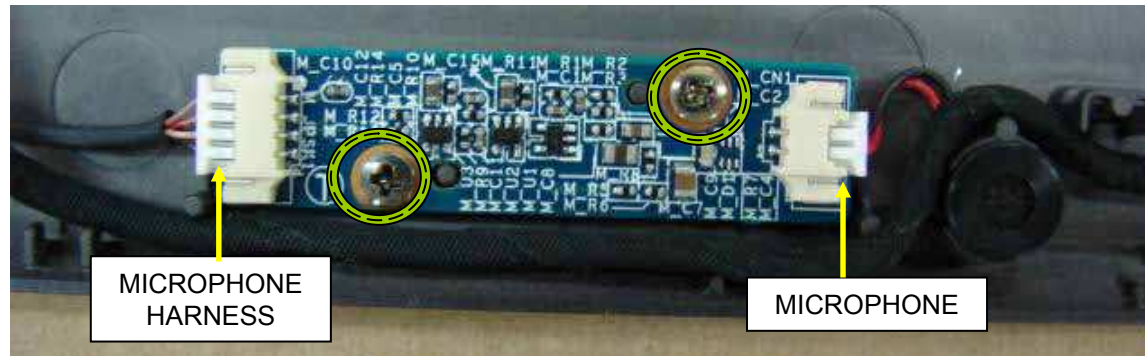
1)
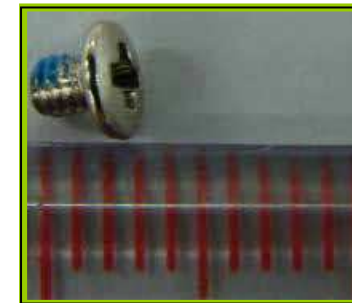
OVERVIEW-FRONT

LCD HARNESS

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)

MICROPHONE HARNESS

MICROPHONE

B2

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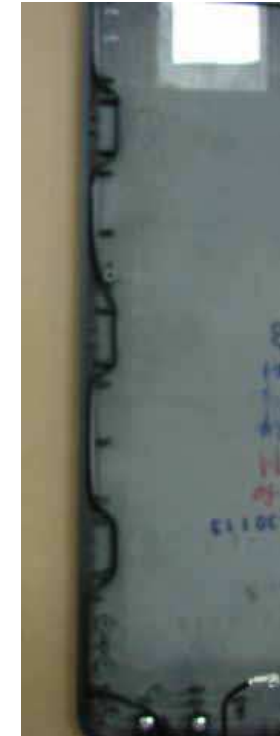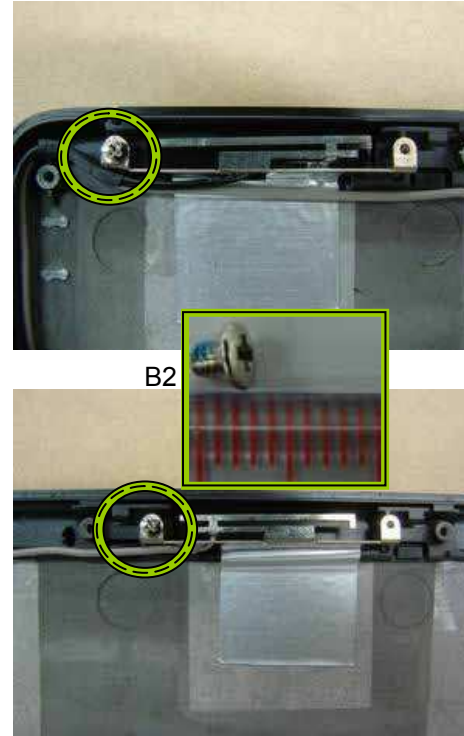
Disassemble Instruction

VGN-C Series – Antenna L/R Removal

OVERVIEW-FRONT

1)

B2

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