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-N 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.
Disassemble Instruction

VGN-N Series – Flow Chart

VGN-NXX

BATTERY

MEMORY

ODD

KEYBOARD

LCD ASSY

BEZEL

INVERTER

LCD PANEL

PALMREST

HDD

MB

CPU FAN

CPU

VGA THERMAL

RJ11/RJ45

DC JACK

BATTERY COVER

SPEAKER
# Disassemble Instruction

## VGN-N Series - Screws

Screw needed for Disassembly

<table>
<thead>
<tr>
<th>Station</th>
<th>Screw model</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODD</td>
<td>B3</td>
<td>M2*L7</td>
</tr>
<tr>
<td>KEYBOARD</td>
<td>B3</td>
<td>M2*L7</td>
</tr>
<tr>
<td>BOTTOM</td>
<td>B3</td>
<td>M2*L7</td>
</tr>
<tr>
<td>BOTTOM</td>
<td>B7</td>
<td>M2*L3</td>
</tr>
<tr>
<td>BOTTOM</td>
<td>B2</td>
<td>M2*L1.8</td>
</tr>
<tr>
<td>BATTERY COVER</td>
<td>B2</td>
<td>M2*L1.8</td>
</tr>
<tr>
<td>PALMREST</td>
<td>B9</td>
<td>M2*L10</td>
</tr>
<tr>
<td>HINGE</td>
<td>B1</td>
<td>M3*L6</td>
</tr>
<tr>
<td>HDD</td>
<td>B9</td>
<td>M2*L10</td>
</tr>
<tr>
<td>MOTHERBOARD</td>
<td>B3</td>
<td>M2*L7</td>
</tr>
<tr>
<td>CPU FAN</td>
<td>B4</td>
<td>M2*L5</td>
</tr>
<tr>
<td>VGA THERMAL</td>
<td>B4</td>
<td>M2*L5</td>
</tr>
<tr>
<td>LCD BEZEL</td>
<td>B4</td>
<td>M2*L5</td>
</tr>
<tr>
<td>SPEAKER</td>
<td>B10</td>
<td>T2*L3</td>
</tr>
</tbody>
</table>
Disassemble Instruction

VGN-N Series - Memory Removal

1) LOOSEN ONE RETAINED SCREW

2) ROTATE THE RAM DOOR FROM THE UPPER EDGE AND LIFT UP

3) REMOVE EACH RAM MODULE BY RELEASING THE CLIPS AND LIFTING THE RAM FROM THE SOCKET
1) REMOVE TWO SCREWS

2) SLIDE THE OPTICAL DRIVE OUT OF THE SYSTEM
Disassemble Instruction

VGN-N Series - Keyboard Removal

1) REMOVE ONE SCREW

2) RELEASE FIVE TABS FROM THE BOTTOM OF THE KEYBOARD

3) ROTATE THE KEYBOARD FROM THE BOTTOM TO REMOVE

4) DISCONNECT THE KEYBOARD CABLE
1) REMOVE EIGHTEEN SCREWS FROM THE PALMREST. NOTE THERE ARE THREE DIFFERENT LENGTHS

2) DISCONNECT THE TOUCHPAD CABLE. REMOVE ONE SCREW

3) LIFT THE PALMREST FROM THE FRONT EDGE. GENTLY RELEASING THE DETENTS
VGN-N Series - Touchpad Removal

1) REMOVE TWO SCREWS. LIFT THE TOUCHPAD BUTTONS FROM THE TOP EDGE.

2) DISCONNECT THE TOUCHPAD CABLE.

3) THE TOUCHPAD IS AFFIXED TO THE PALMREST WITH DOUBLE-SIDED ADHESIVE.
Disassemble Instruction

VGN-N Series - Wireless LAN Card Removal

1) DISCONNECT THE WLAN ANTENNAS. NOTE THE ROUTING OF THE ANTENNAS

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

3) LIFT THE SIDE OF THE WIRELESS CARD UP. REMOVE THE CARD AWAY FROM THE SOCKET
**Disassemble Instruction**

**VGN-N Series - LCD Assembly Removal**

1) DISCONNECT THE TWO CONNECTORS ON THE LCD HARNESS. REMOVE THREE SCREWS FROM THE LEFT HINGE.

2) DISCONNECT THE RJ-45 HARNESS. REMOVE THREE SCREWS ON THE RIGHT HINGE AND LIFT LCD ASSEMBLY FROM THE SYSTEM.

3) REMOVE ONE SCREW FROM THE LCD HARNESS ROUTING GUIDE. LIFT THE ROUTING GUIDE UP.
Disassemble Instruction

VGN-N Series - Hard Drive Removal

OVERVIEW-FRONT

1) REMOVE TWO SCREWS

2) SLIDE THE HDD TO THE LEFT AND LIFT UP
Disassemble Instruction

VGN-N Series - Motherboard Removal

1) Disconnect the Speaker Harness. Remove three screws.

2) Lift up the left side of the motherboard and slide the motherboard to the left to remove.

3) Gently turn the motherboard over and disconnect the DC jack harness and the RJ-11 harness.

NOTICE

When installing the motherboard, ensure the wireless LAN switch on the motherboard is in the same position the wireless LAN switch on the bottom housing.
1) Disconnect the CPU fan. Remove four screws and lift the cooling unit up.

2) Release the CPU lock by rotating the lock clockwise with a flat-blade screwdriver. Carefully lift the CPU up.

VGN-N Series - CPU Removal

Disassemble Instruction
Disassemble Instruction

VGN-N Series - VGA Thermal Removal

1) REMOVE TWO SCREWS AND LIFT THE VGA THERMAL UNIT UP
Disassemble Instruction

VGN-N Series - RJ-11/RJ-45 Harness Removal

1) REMOVE ONE SCREW FROM THE RJ-11 /RJ-45 HARNESS

2) RELEASE THE CLIP ON EACH SIDE OF THE RJ-11 /RJ-45 BRACKET AND LIFT THE BRACKET UP

3) LIFT THE RJ-11 /RJ-45 HARNESS UP
VGN-N Series - DC Jack Harness Removal

Disassemble Instruction

1) REMOVE ONE SCREW AND LIFT THE DC JACK BRACKET UP

2) LIFT THE DC JACK HARNESS UP
Disassemble Instruction

VGN-N Series - Battery Bay Cover Removal

1) GENTLY RELEASE THE FOUR CLIPS ON THE BATTERY BAY COVER

2) LIFT THE BATTERY BAY COVER UP
Disassemble Instruction

VGN-N Series - Speaker Removal

1) REMOVE TWO SCREWS AND LIFT THE LEFT SPEAKER BRACKET UP. NOTE THE ROUTING OF THE CABLE

2) REMOVE TWO SCREWS AND LIFT THE SPEAKER BRACKET UP. LIFT THE SPEAKERS AND HARNESS UP. NOTE THE ROUTING OF THE HARNESS
Disassemble Instruction

VGN-N Series – LCD Bezel Removal

1) REMOVE FOUR SCREW COVERS

2) REMOVE ONE SCREW FROM BENEATH EACH SCREW COVER

3) USING GENTLE PRESSURE FROM THE INNER EDGES. RELEASE THE DETENTS ON THE BEZEL

4) ROTATE THE BEZEL TOWARDS THE BOTTOM OF THE UNIT TO RELEASE THE FOUR TABS
Disassemble Instruction

VGN-N Series – Inverter Removal

1) OVERVIEW-FRONT

2) DISCONNECT THE LCD HARNESS FROM THE INVERTER. NOTE THE TOUTING OF THE HARNESS

3) WIRELESS LAN ANTENNAS

DISCONNECT THE INVERTER CABLE. NOTE THE ROUTING OF THE CABLE AND THE WIRELESS LAN ANTENNAS

4) THE INVERTER IS AFFIXED TO THE DISPLAY HOUSING WITH DOUBLE SIDED ADHESIVE. GENTLY REMOVE THE INVERTER TOWARDS THE BOTTOM OF THE HOUSING.
VGC-LS1 Series – Battery Removal

1) REMOVE SIX SCREWS FROM THE LCD BRACKET. NOTE THERE ARE TWO DIFFERENT LENGTHS

2) LIFT THE LCD PANEL UP FROM THE HOUSING

VGN-N Series – LCD Panel Removal

3) REMOVE THE TAPE AND DISCONNECT THE LCD HARNESS ON THE REVERSE SIDE OF THE LCD