TravelMate
P214-56-G2-TCO
P214-76-G2-TCO

Cymbal_ARH

LIFECYCLE EXTENSION GUIDE

Self-Repair 1-1
Disassembly Procedures 1-2
Electronic Boards Diagrams 1-41
BIOS Setup Utility 1-42
Troubleshooting 1-63
Exploded Diagrams 1-74
FRU List 1-78
Software Update 1-98
Personal Data Removal 1-100

Self-Repair

This chapter offers limited customer self-repair capabilities.

Prior performing self-repair, familiarize yourself with the Safety Guidelines and Recommended Equipment sections first as described in the chapter "Disassembly Procedures".

Due to the complexity of circuit boards, electronic components which are embedded to the motherboard or daughterboard(s) are strongly not advised to self-repair.

NOTE:

Before handling components, wear anti-static gloves to avoid damaging them due to static electricity.

NOTE:

For replacement parts, always use only Acer certified components in order to safeguard quality, optimum system performance, stability and reliability of the product.

NOTE:

Any damage to the product that occur during self-repair, or which has occurred as a result of a careless or unsuccessful self-repair attempt, is not covered by the standard product warranty.

Disassembly Procedures

Safety Guidelines

This chapter contains step by step procedures on how to remove and de-install components from the computer. Use these safety guidelines to ensure your personal safety. Each procedure included in this chapter assumes that you are preparing your computer for recycling and disposal. **By performing any of these procedures you acknowledge that any remaining warranty applicable to your computer will be voided if any damage is done to the unit or components during the repair. Before you start any of the procedures in this chapter, make sure to read the following safety guidelines and the respective instructions within the chapter.**

CAUTION!

- Turn off your computer and disconnect all power sources before opening the computer cover or panels.
- To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface at the same time as touching a connector on the back of the computer.
- Take off any metal objects on your arms or fingers such as bracelets, rings or watches and make sure your hands are completely dry. Even if your unit is unplugged, there may still be some remaining electric charge.
- If a component does not come out easily, do not forcefully remove it. Instead, check that you are removing it correctly and that no wires or other parts are in the way.
- When you disconnect a cable, pull on its connector or on its pull-tab, not on the cable itself. Some cables have connectors with locking tabs; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable.

Recommended Equipment

The following equipment are recommended to do the following maintenance procedures:

- Wrist grounding strap and conductive mat
- Flat screwdriver
- Philips screwdriver
- Polydrive screwdriver
- Plastic tweezers
- Flat plastic pry

WEEE Annex VII Component

These components are classified as requiring selective treatment:

- Battery pack
- SSD Module
- WLAN Module
- Memory
- RTC Battery
- Touchpad Module
- USB Board
- Card Reader Board
- Mainboard
- LCD Panel

Pre-disassembly Instructions

Do the following prior to starting any maintenance procedures:

1. Place the system on a stable work surface.
2. Remove AC adapter from either of the ports (A or B) of the system and from peripherals (Figure 1-1).
3. Remove all cables from system.

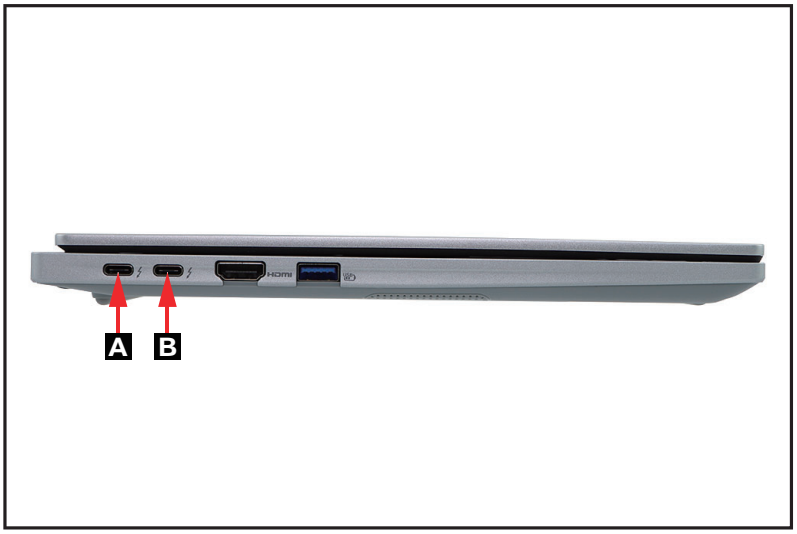


Figure 1-1. AC Adapter Outlet

4. Remove the SD card from the SD card slot (C) (Figure 1-2).

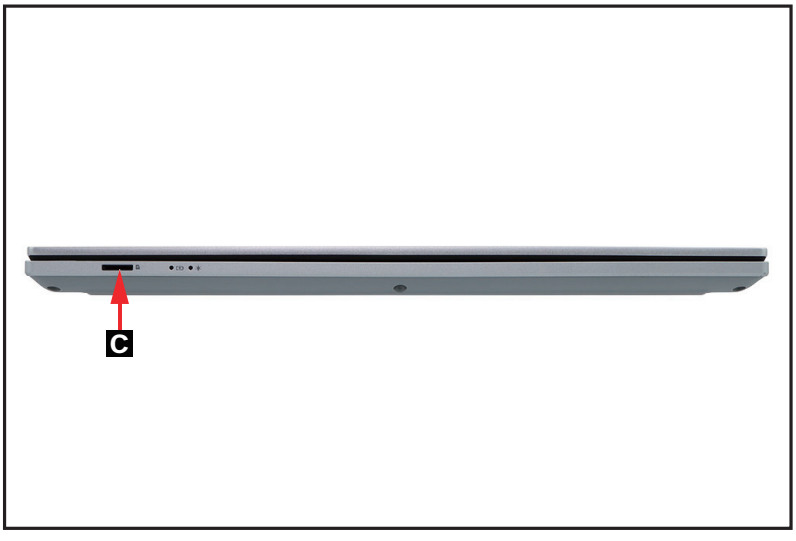


Figure 1-2. SD Card Slot

NOTE:
Make sure the system is completely powered off.

Base Cover Removal

1. Remove ten (10) screws from the base cover (Figure 1-3).

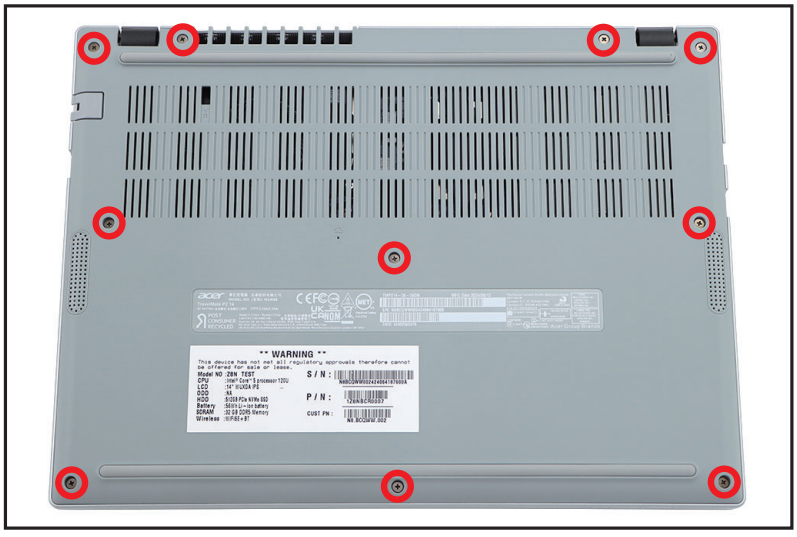


Figure 1-3. Base Cover Removal

2. Carefully pry up the base cover starting from the LCD hinges to release the latches (Figure 1-4).



Figure 1-4. Base Cover Removal

3. Continue releasing the remaining latches on the left, right, and bottom sides (Figure 1-5).

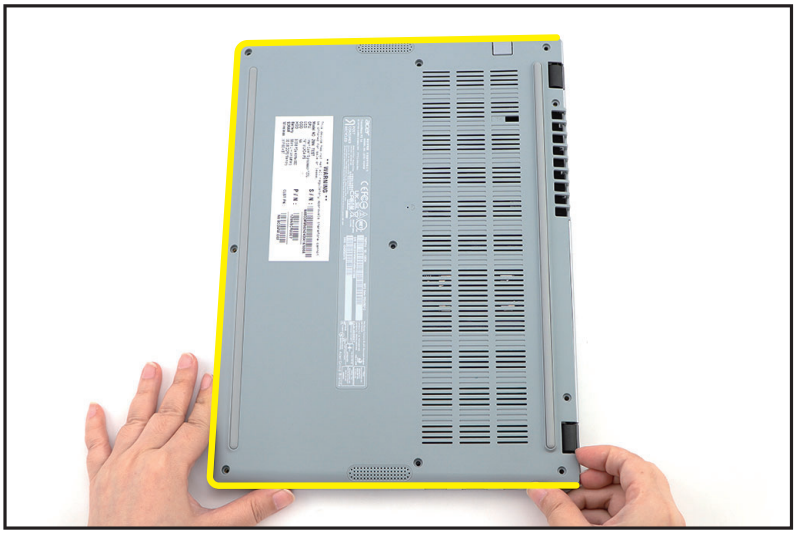


Figure 1-5. Base Cover Removal

4. Release the remaining upper side latches. Grasp and remove the base cover from the system (Figure 1-6).

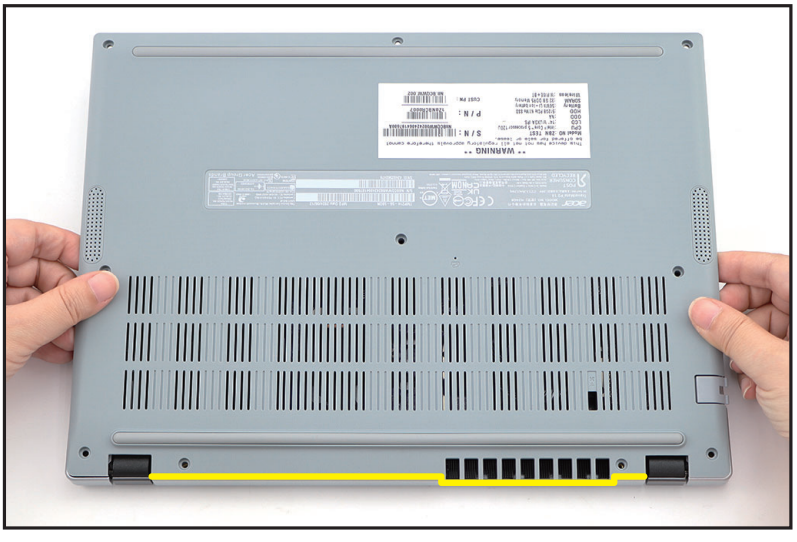


Figure 1-6. Base Cover Removal

Battery Pack Removal

Prerequisite:

Base Cover Removal

1. Find the battery pack (A) on the top assembly (Figure 1-7).
2. Detach the acetate tape (B) securing the battery cable in place (Figure 1-7).

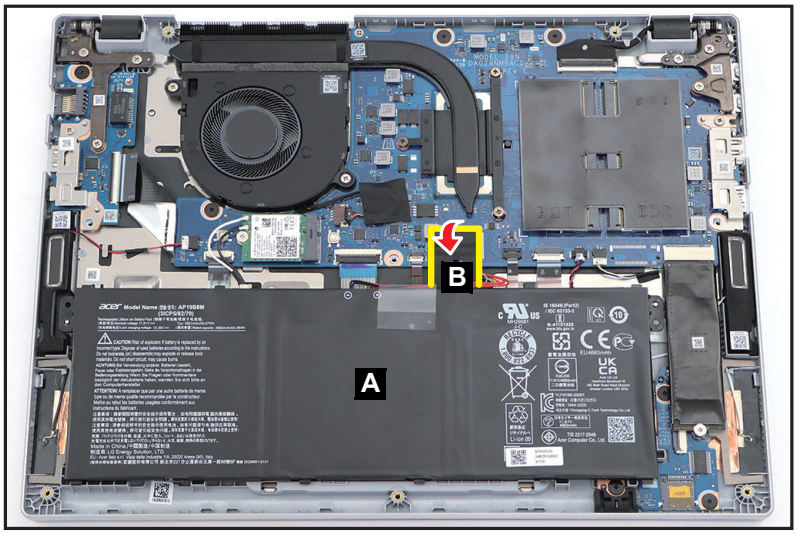


Figure 1-7. Battery Pack Removal

3. Disconnect the battery cable from the mainboard connector (C) (Figure 1-8).

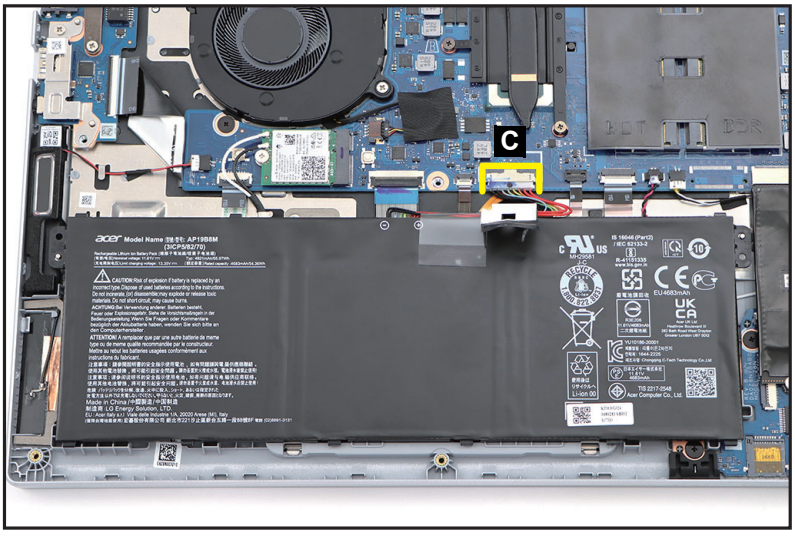


Figure 1-8. Battery Pack Removal

4. Release the battery pack from the guides (marked with green circles) on the top assembly and remove it (Figure 1-9).

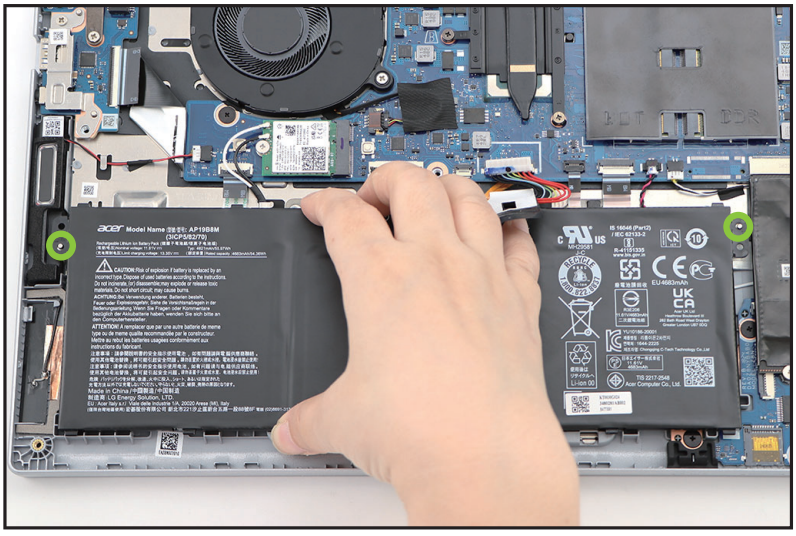


Figure 1-9. Battery Pack Removal

5. Detach the mylar tape (D) from the battery cable (Figure 1-10).

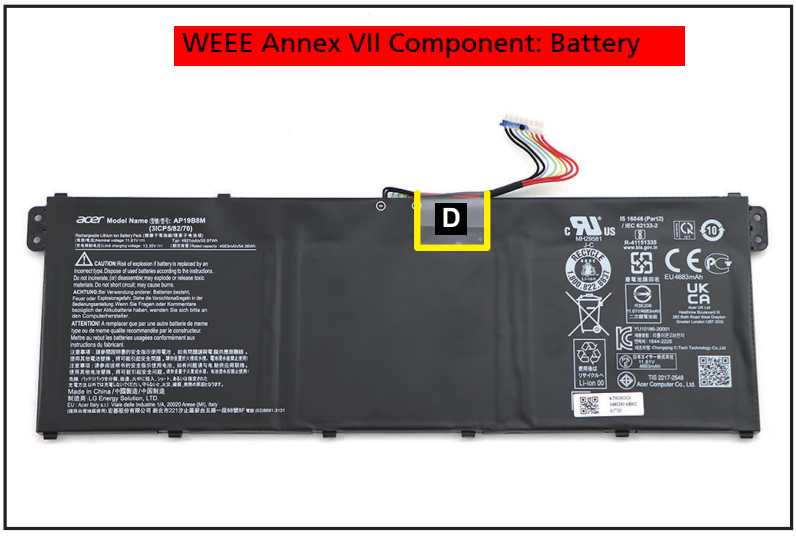


Figure 1-10. Battery Pack Removal

IMPORTANT:

Follow local regulations for battery disposal.

SSD Module Removal

Prerequisite:

Battery Pack Removal

1. Remove one (1) screw securing the SSD assembly in place (Figure 1-11).

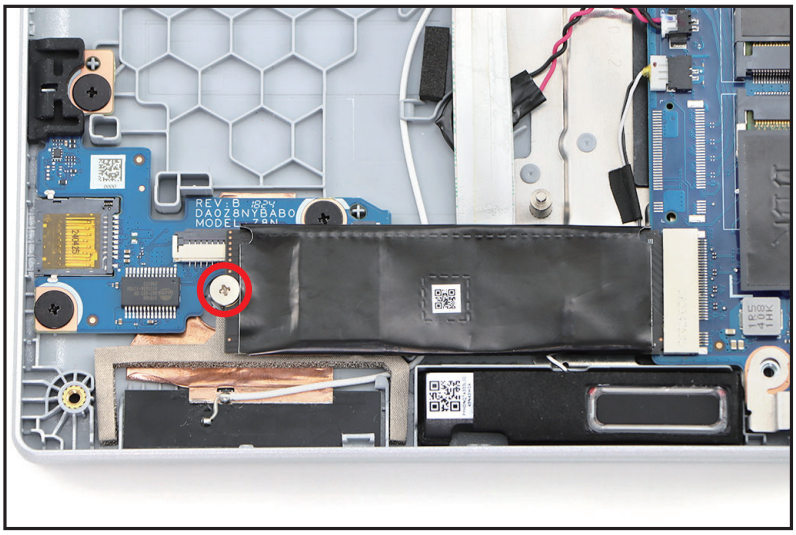


Figure 1-11. SSD Module Removal

2. Disconnect the SSD assembly from the mainboard connector (A) (Figure 1-12).

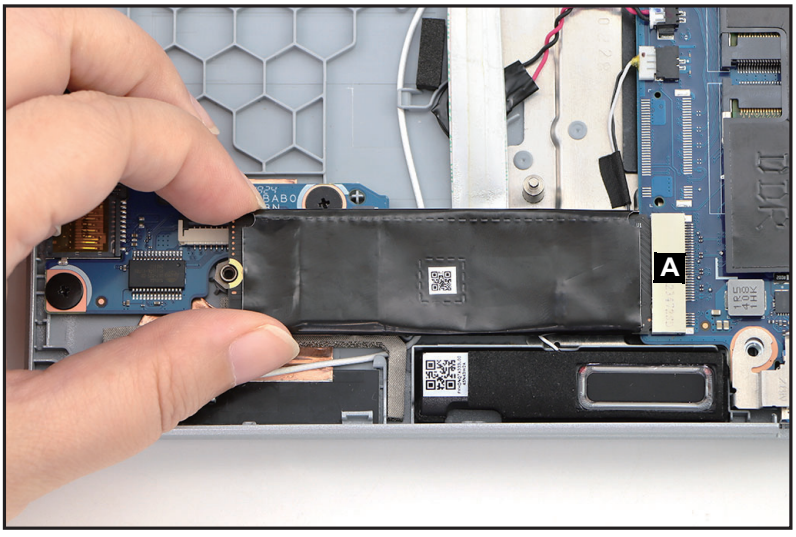


Figure 1-12. SSD Module Removal

3. By holding the upper edge of the copper foil with mylar (B), unfold and detach it from the SSD module as shown in Figure 1-13 and Figure 1-14 but DO NOT remove yet!

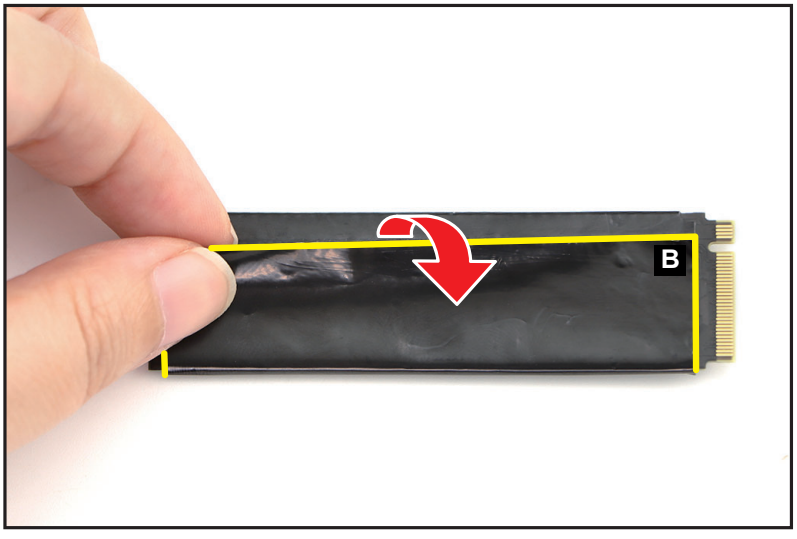


Figure 1-13. SSD Module Removal

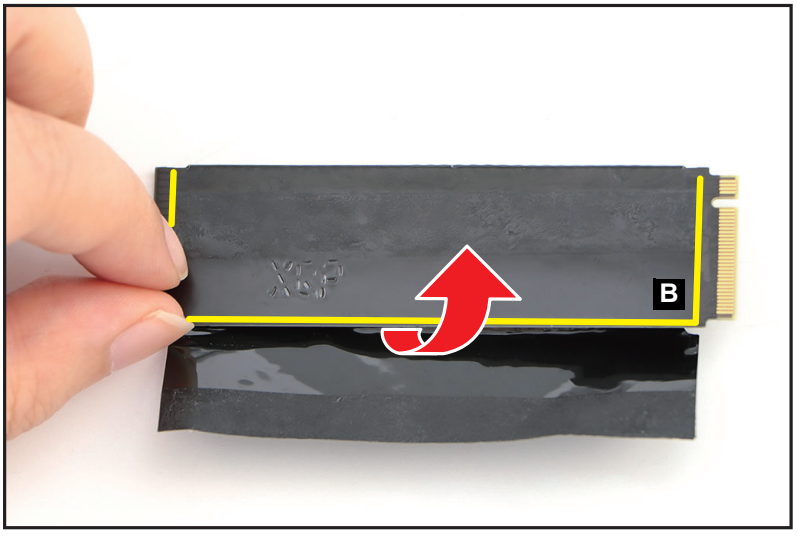


Figure 1-14. SSD Module Removal

4. Detach the SSD module from the adhesive graphite strip (marked with yellow dashed line) as shown in Figure 1-15.



Figure 1-15. SSD Module Removal

WLAN Module Removal

Prerequisite:

Battery Pack Removal

1. Find the WLAN module (A) on the top assembly (Figure 1-16).

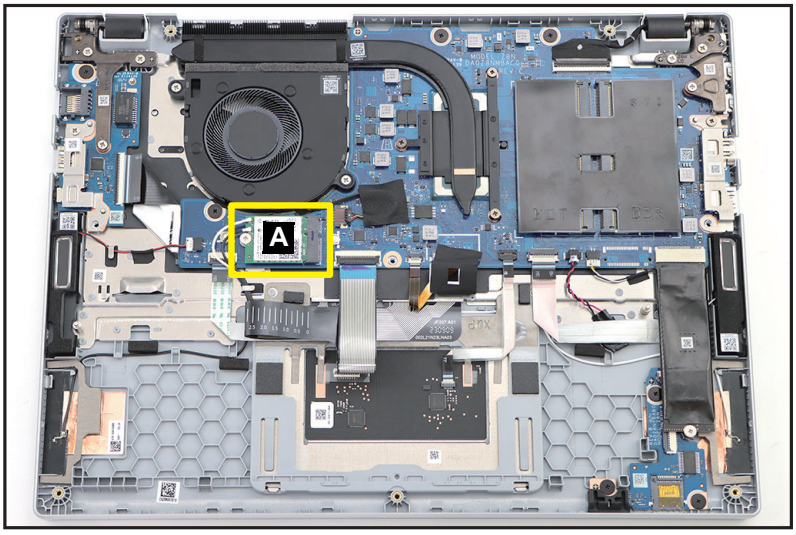


Figure 1-16. WLAN Module Location

2. Disconnect the WLAN antenna cables from the WLAN module connectors (B) (Figure 1-17).
3. Remove one (1) screw securing the WLAN module in place (Figure 1-17).

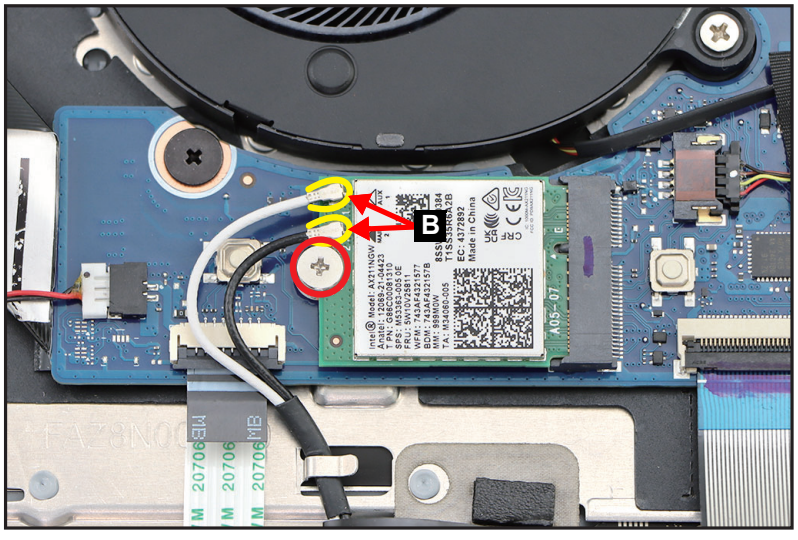


Figure 1-17. WLAN Module Removal

4. Remove the WLAN module from the mainboard connector (C) (Figure 1-18).

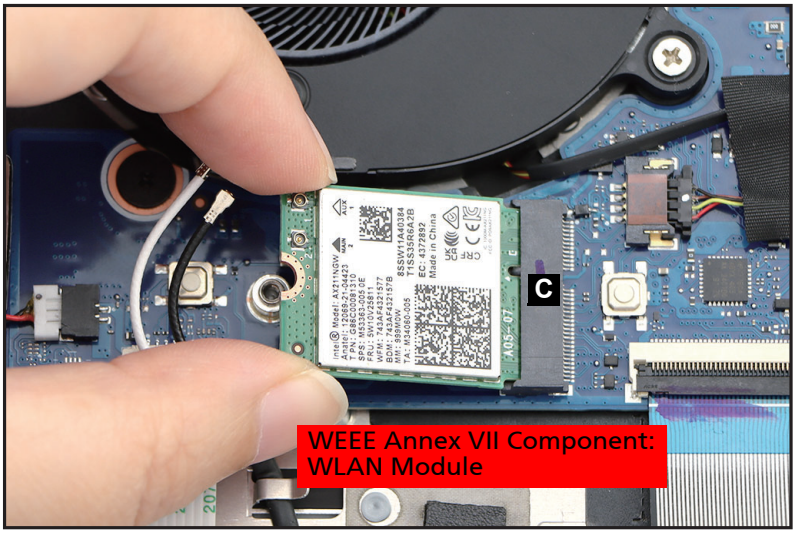


Figure 1-18. WLAN Module Removal

DIMM (Dual In-line Memory Module) Removal

Prerequisite:

Battery Pack Removal

1. Detach the insulator mylar (A) from the DIMM modules (Figure 1-19).

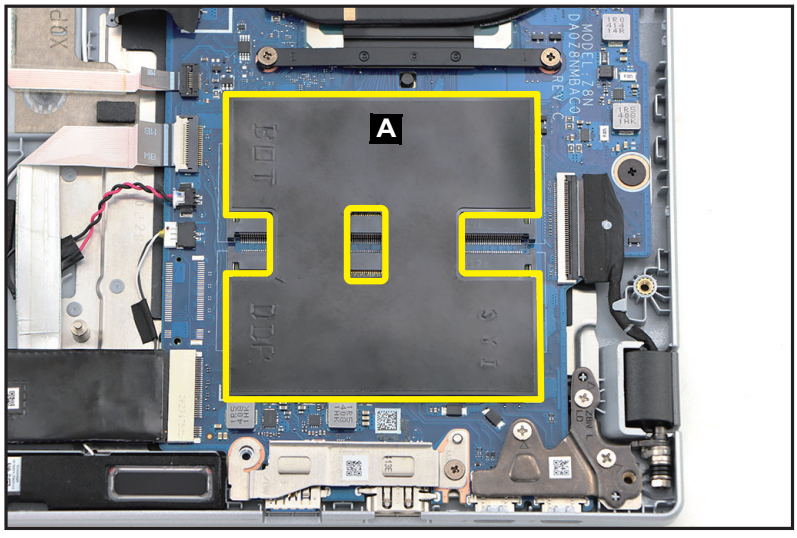


Figure 1-19. DIMM Module Removal

2. Push the DIMM module clips (B) outwards (Figure 1-20).

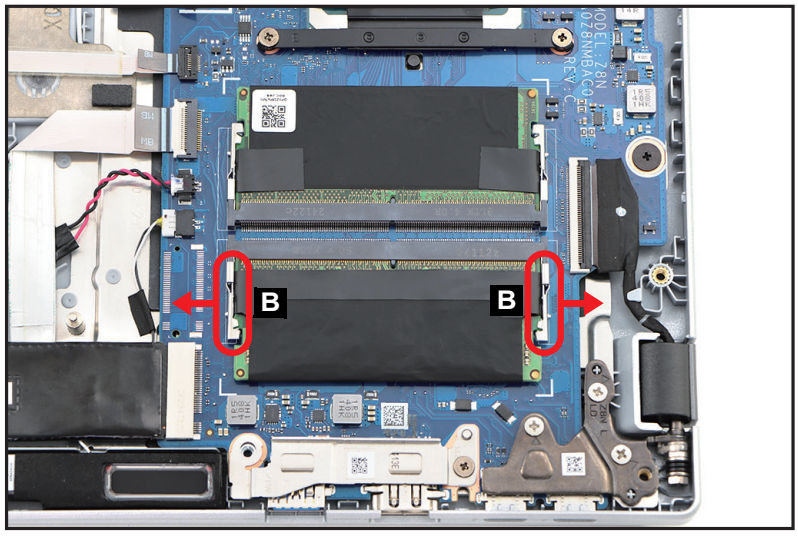


Figure 1-20. DIMM Module Removal

3. Remove the DIMM module from the mainboard connector (C) (Figure 1-21).

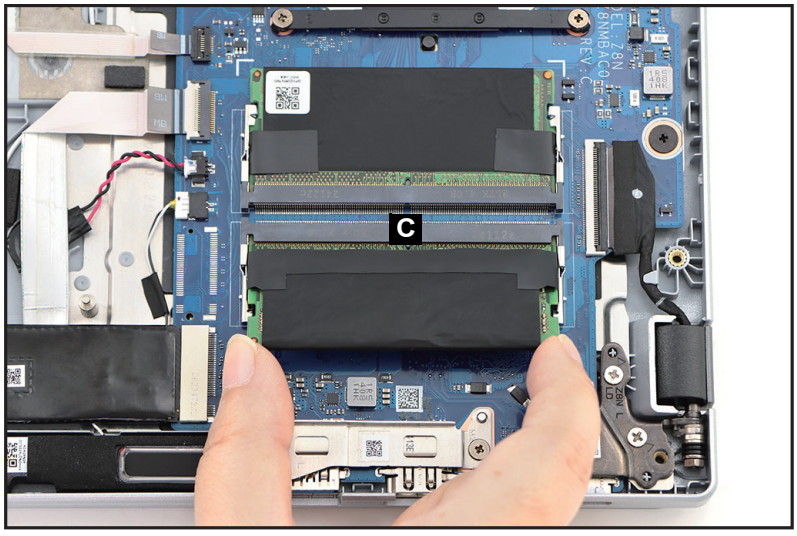


Figure 1-21. DIMM Module Removal

4. Detach the mylar tabs (D) from the DIMM module as shown in Figure 1-22.

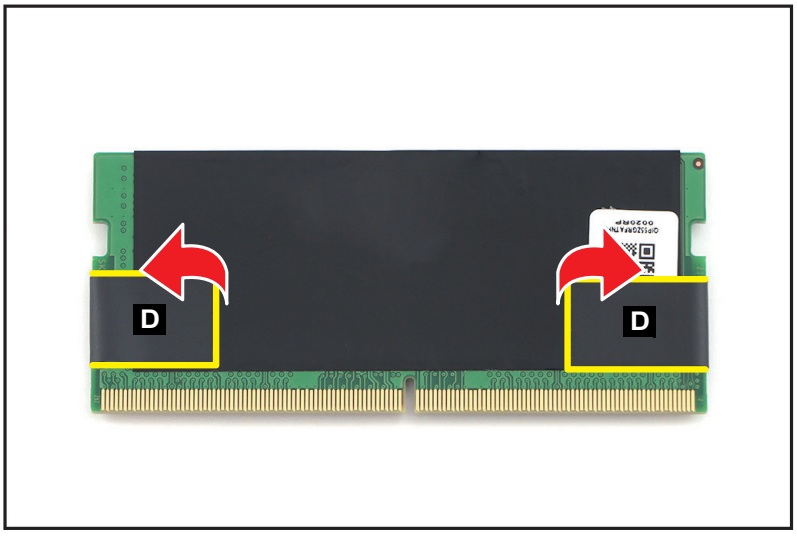


Figure 1-22. DIMM Module Removal

5. By holding the edge of the composite foil with thermal pad (E), unfold and detach it from the DIMM module as shown in Figure 1-23 but DO NOT remove yet!

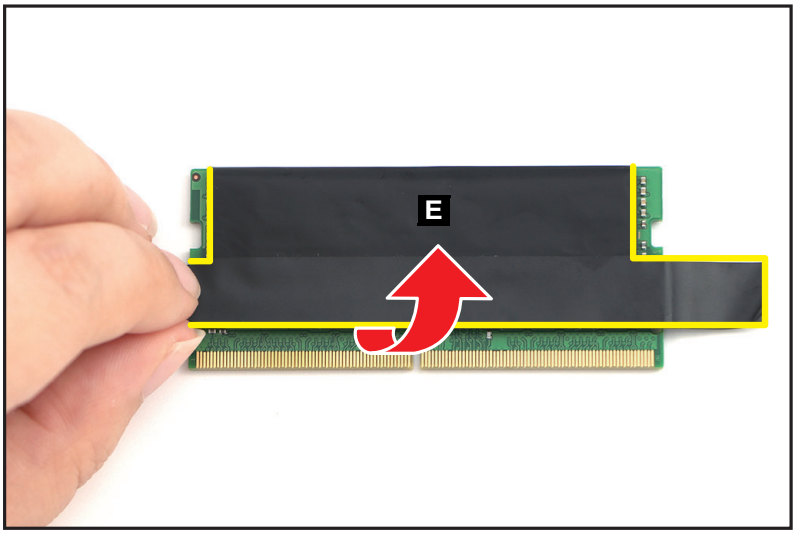


Figure 1-23. DIMM Module Removal

6. Detach the DIMM module from the thermal pad (marked with yellow dashed lines) as shown in Figure 1-24.

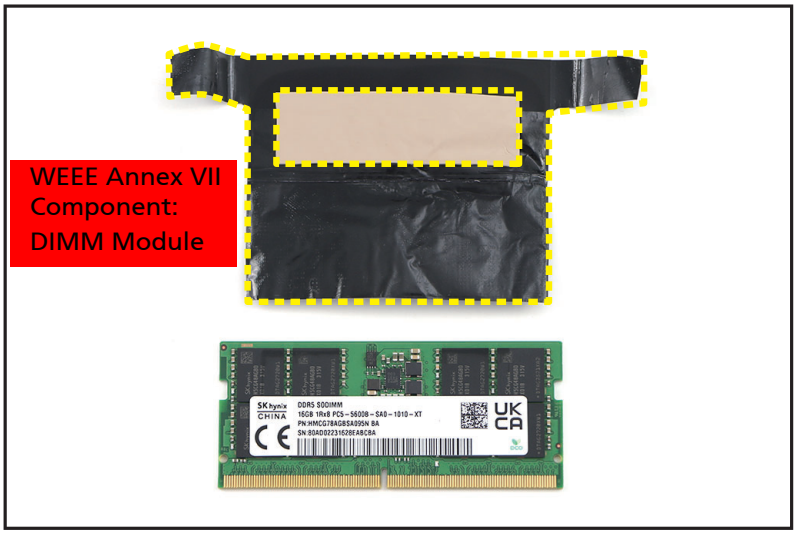


Figure 1-24. DIMM Module Removal

7. Repeat steps 2 to 6 to remove another DIMM module (if necessary).

LCD Module Removal

Prerequisite:

Battery Pack Removal

1. Disconnect the CCD cable from the mainboard connector (A) and unroute it from the top assembly (Figure 1-25).

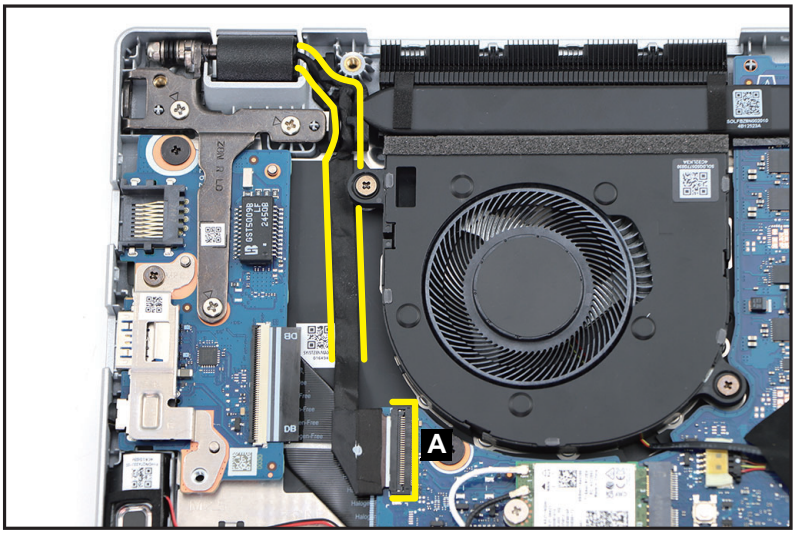


Figure 1-25. LCD Module Removal

⚠ CAUTION:

The CCD cable can be damaged if removed while the mainboard connector is locked.

2. Disconnect the LCD cable from the mainboard connector (B) (Figure 1-26).

⚠ CAUTION:

LCD cable can be damaged if removed while the mainboard connector is locked.

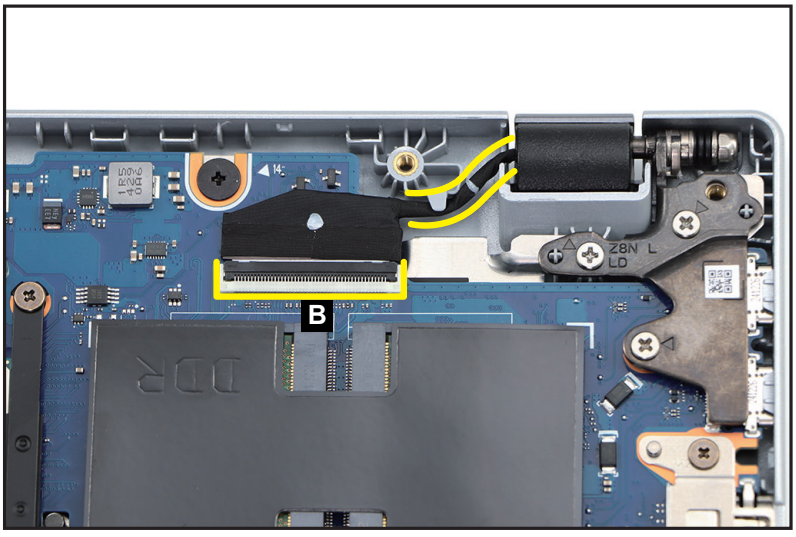


Figure 1-26. LCD Module Removal

3. Remove six (6) screws securing the LCD hinges in place (Figure 1-27).

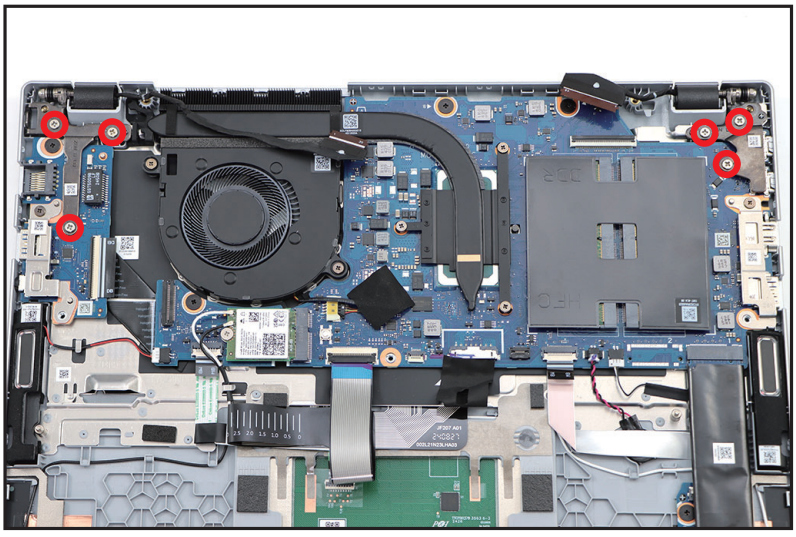


Figure 1-27. LCD Module Removal

4. Open the top assembly (Figure 1-28).

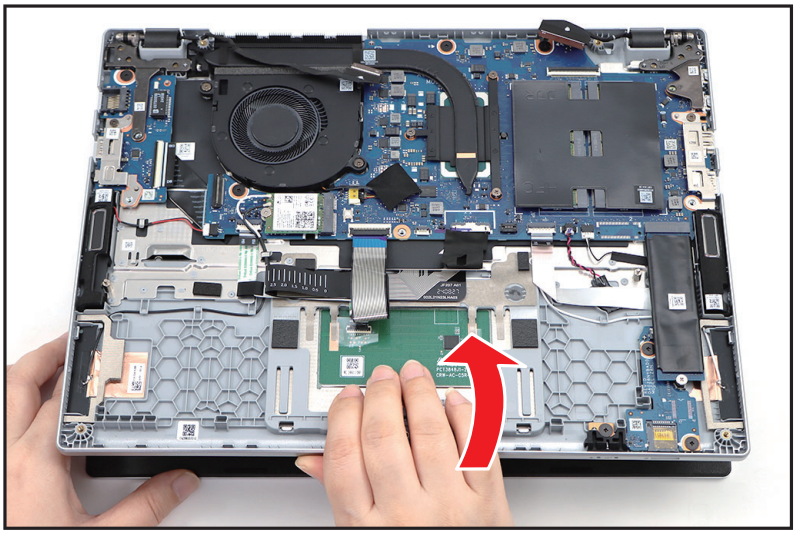


Figure 1-28. LCD Module Removal

5. Extend the LCD hinges until they are fully open (Figure 1-29).

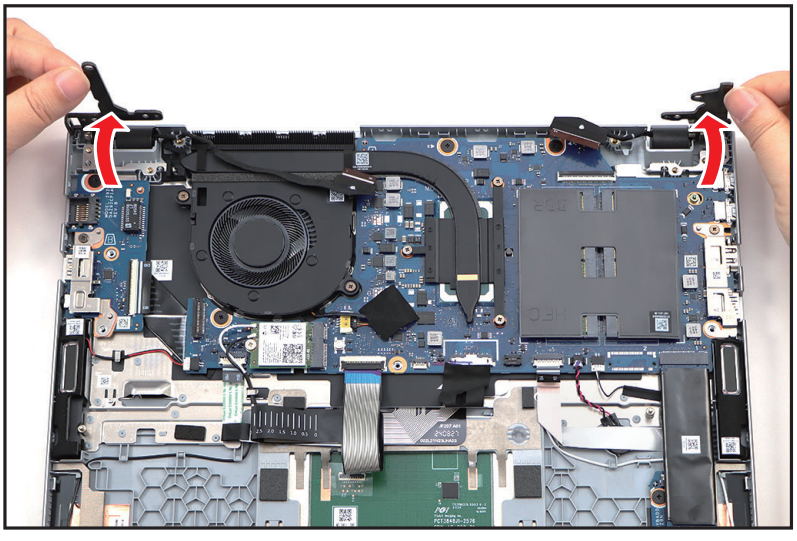


Figure 1-29. LCD Module Removal

6. Remove the LCD module away from the top assembly (Figure 1-30).

⚠ CAUTION:

Make sure all cables and antennas are moved away from the device to avoid damage during removal.



Figure 1-30. LCD Module Removal

RTC Battery Removal

Prerequisite:

Battery Pack Removal

1. Disconnect the card reader board FFC from the mainboard connector (A) (Figure 1-31).

⚠ CAUTION:

Card reader board FFC can be damaged if removed while the mainboard connector is locked.

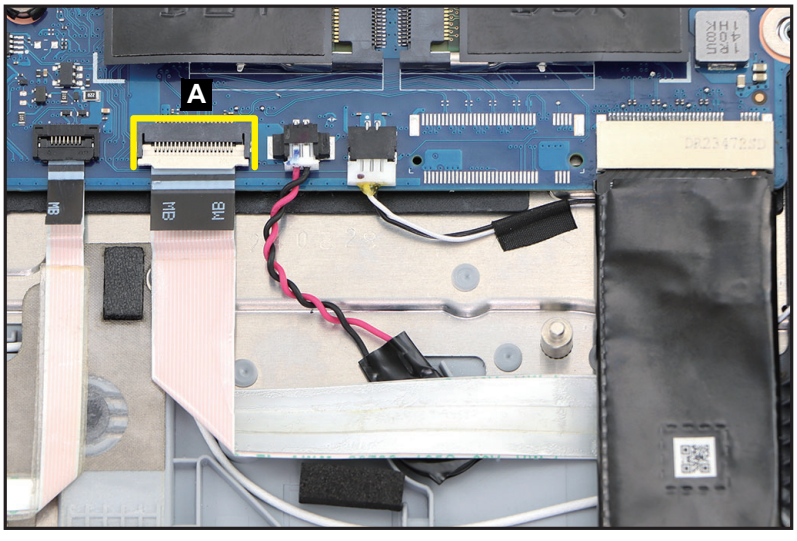


Figure 1-31. RTC Battery Removal

2. Disconnect the RTC battery cable from the mainboard connector (B) (Figure 1-32).
3. Using plastic tweezers, carefully pry to detach the adhesive tape underneath the RTC battery (C) and then remove the RTC battery (Figure 1-32).

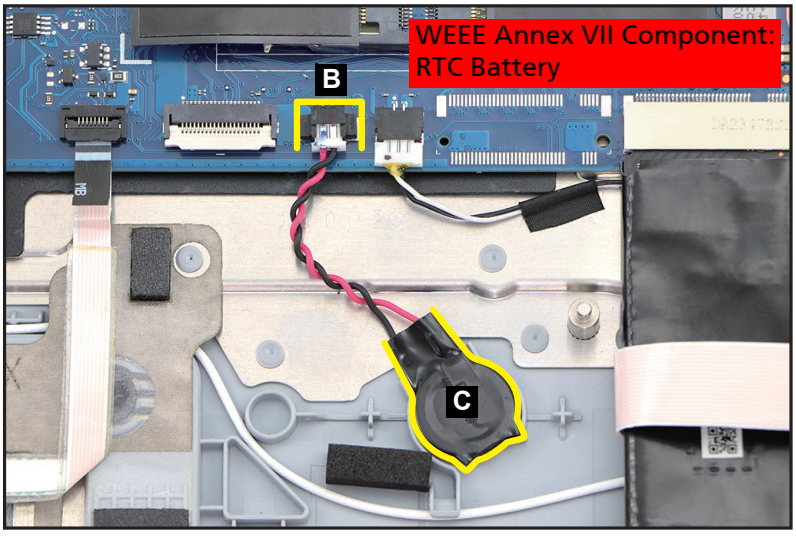


Figure 1-32. RTC Battery Removal

IMPORTANT:

Follow local regulations for battery disposal.

Touchpad Module Removal

Prerequisite:

Battery Pack Removal

1. Detach the mylar tape (A) from the touchpad FFC (Figure 1-33).

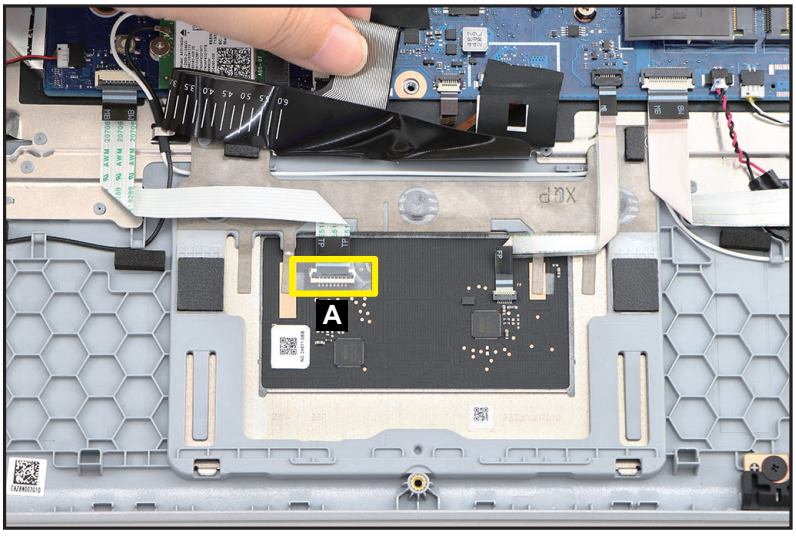


Figure 1-33. Touchpad Module Removal

2. Disconnect the touchpad module FFC (B) from the touchpad and mainboard connectors (Figure 1-34).
3. Disconnect the fingerprint board FFC (C) from the touchpad and mainboard connectors (Figure 1-34).

⚠ CAUTION:

Touchpad module and fingerprint board FFCs can be damaged if removed while the touchpad module and mainboard connectors are locked.

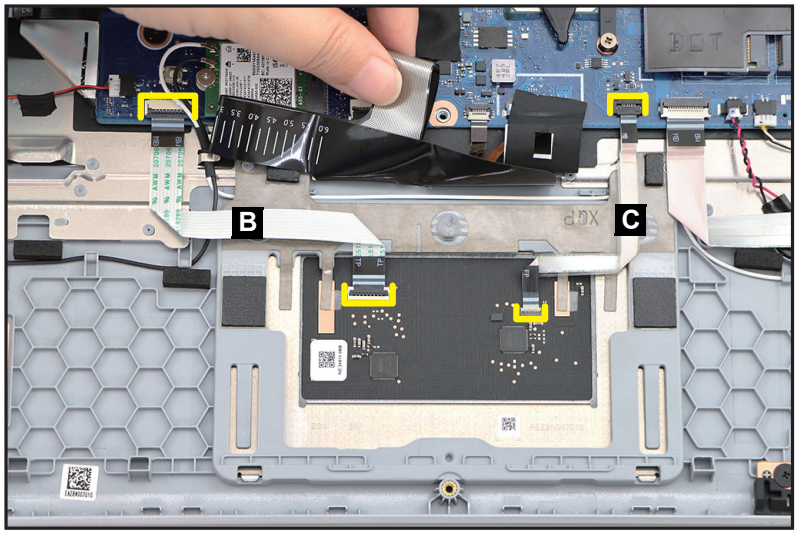


Figure 1-34. Touchpad Module Removal

4. Gently peel off the conductive tape with insulator mylar and sponges (D) from the touchpad module (Figure 1-35).

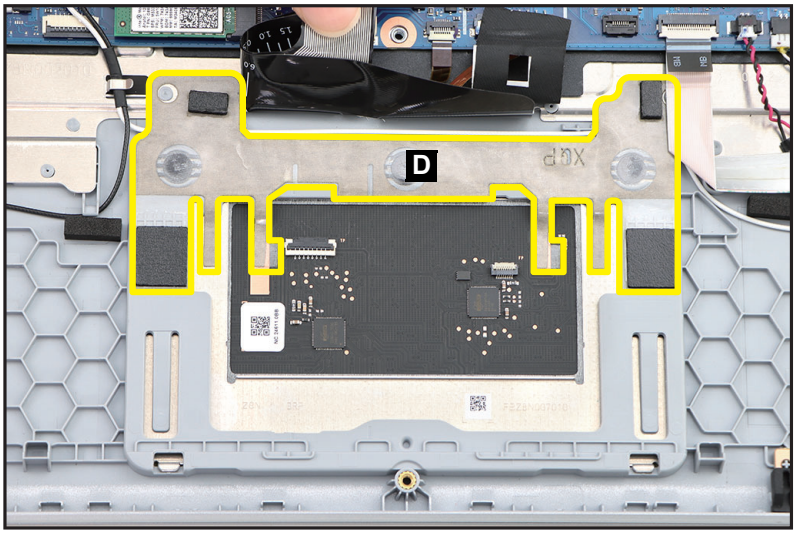


Figure 1-35. Touchpad Module Removal

5. Remove three (3) screws securing the touchpad module in place (Figure 1-36).

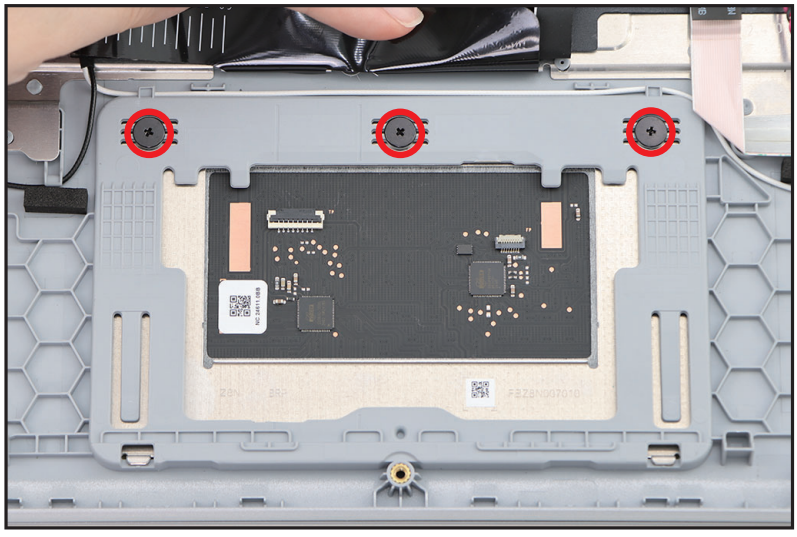


Figure 1-36. Touchpad Module Removal

6. Release the guides (marked with green circles) from the screw sleeves (Figure 1-37).
7. Slide the touchpad module (E) slightly to disengage it from the bottom latches (marked with green lines), and then remove the touchpad module from the top assembly (Figure 1-37).

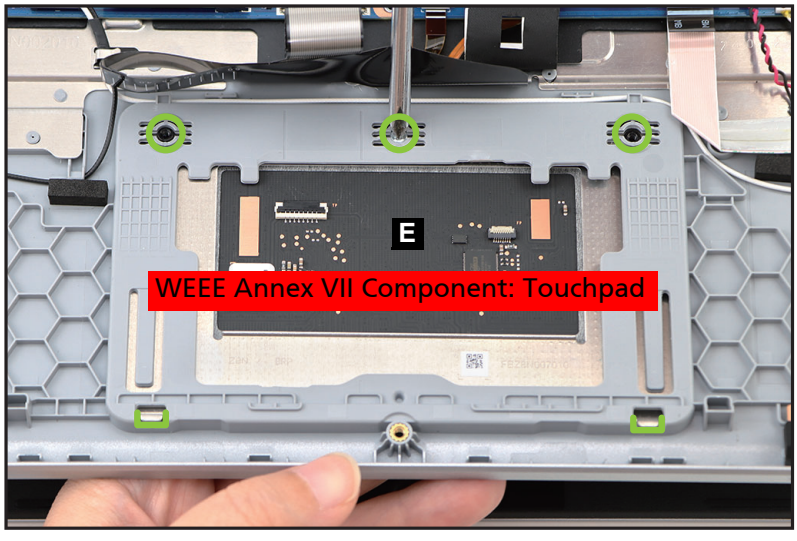


Figure 1-37. Touchpad Module Removal

Card Reader Board Removal

Prerequisite:

SSD Module Removal

1. Disconnect the card reader board FFC (A) from the mainboard and card reader board connectors (Figure 1-38).
2. Remove the card reader board rubber (B) (Figure 1-38).

⚠ CAUTION:

Card reader board FFC can be damaged if removed while the mainboard and card reader board connectors are locked.

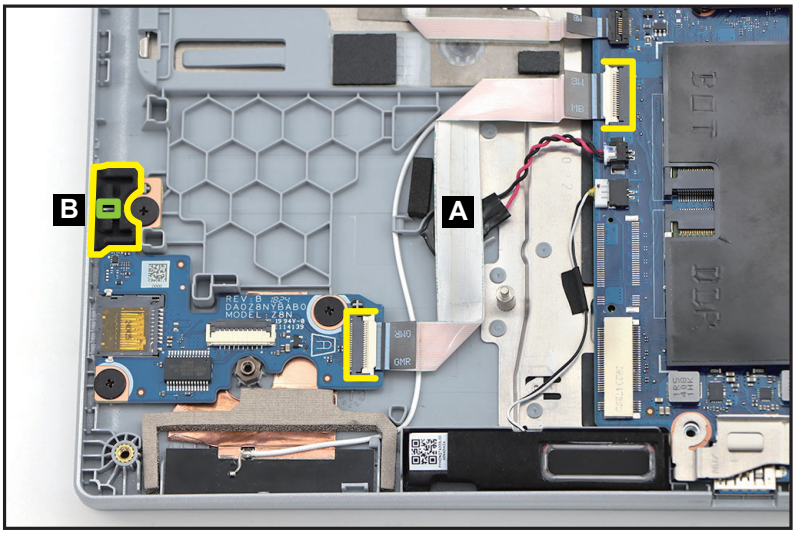


Figure 1-38. Card Reader Board Removal

3. Remove three (3) screws securing the card reader board in place (Figure 1-39).

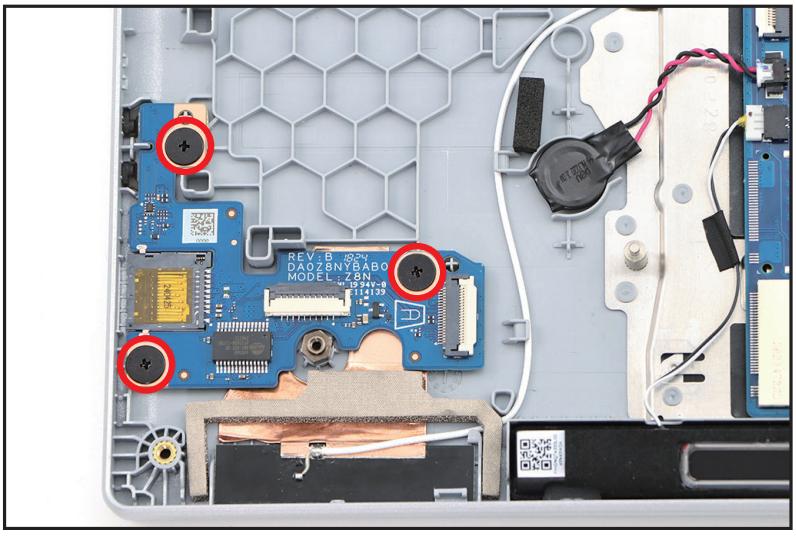


Figure 1-39. Card Reader Board Removal

4. Release the card reader board from the guides (marked with green circles) and remove from the top assembly (Figure 1-40).

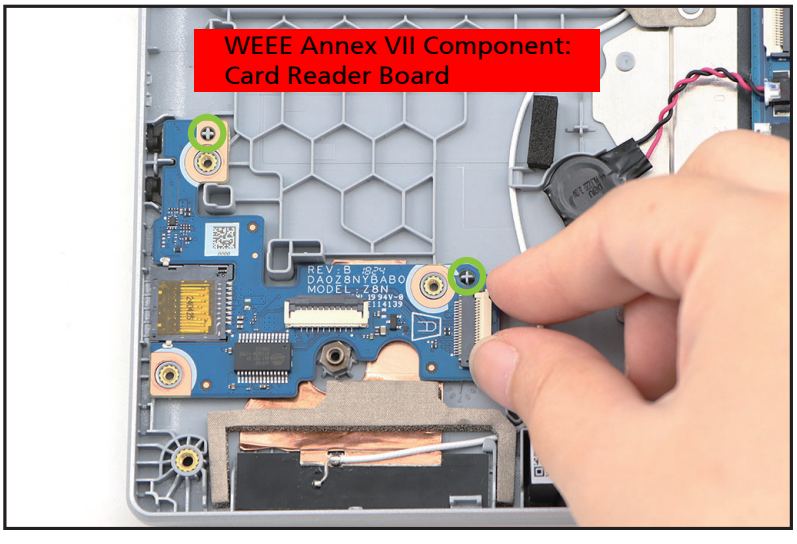


Figure 1-40. Card Reader Board Removal

USB Board Removal

Prerequisite:

LCD Module Removal

1. Remove one (1) screw from the USB board (Figure 1-41).
2. Remove one (1) screw from the I/O bracket (Figure 1-41).
3. Disconnect the USB board FFC from the USB board connector (A) (Figure 1-41).

⚠ CAUTION:

USB board FFC can be damaged if removed while the USB board connector is locked.

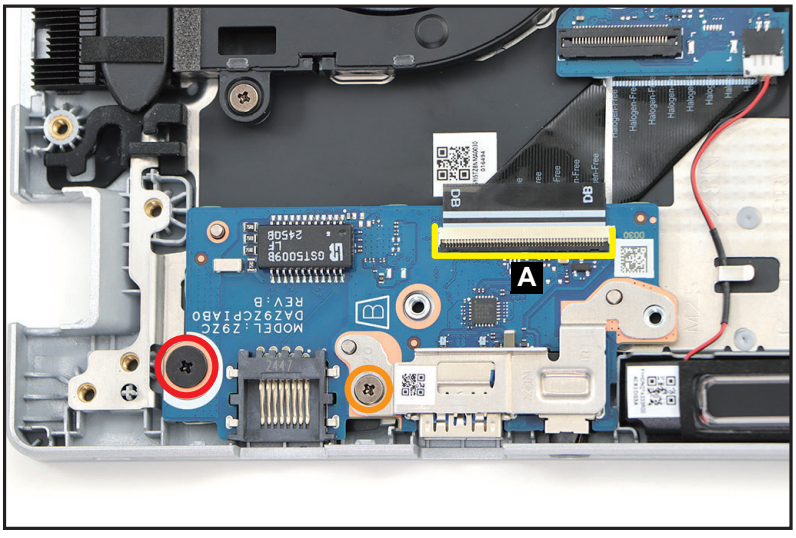


Figure 1-41. USB Board Removal

4. Release the I/O bracket from the guides (marked with green circles) and remove it (Figure 1-42).

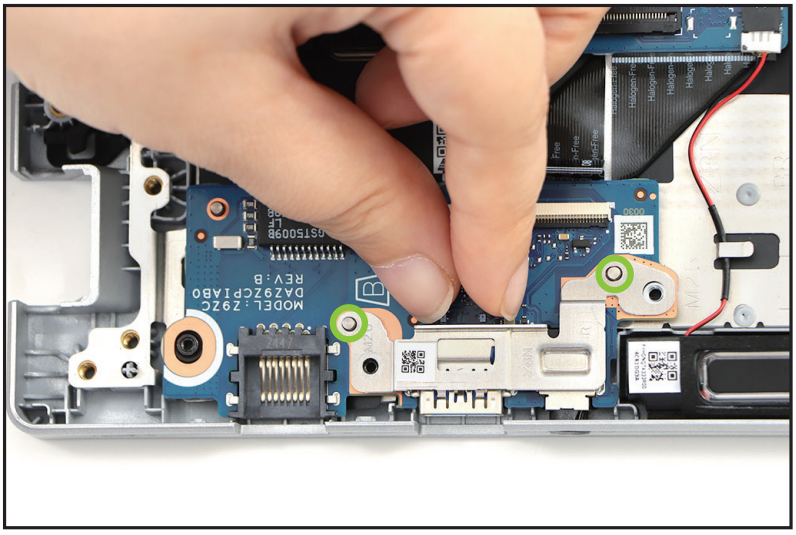


Figure 1-42. USB Board Removal

5. Slightly lift the USB board to release it from the guides (marked with green circles). Next, slide the USB board backwards to release its I/O connectors from the I/O slots. Finally remove the USB board from the top assembly (Figure 1-43).

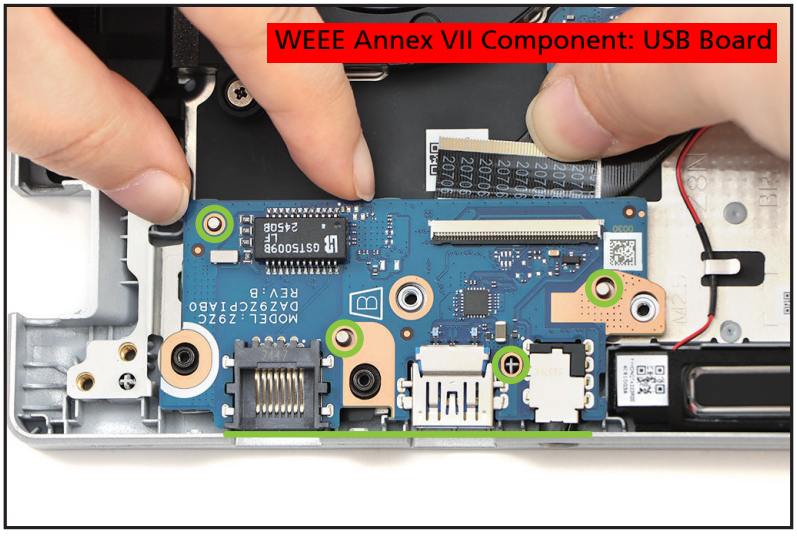


Figure 1-43. USB Board Removal

Mainboard Removal

Prerequisite:

Ensure that the **SSD Module**, **WLAN Module**, **Memory Modules**, **Heatsink**, and **USB Board** have been disassembled prior removing the mainboard.

1. Disconnect the right speaker cable from the mainboard connector (A) (Figure 1-44).
2. Disconnect the touchpad module FFC from the mainboard connector (B) (Figure 1-44).
3. Disconnect the keyboard FPC from the mainboard connector (C) (Figure 1-44).
4. Disconnect the keyboard backlight FFC from the mainboard connector (D) (Figure 1-44).
5. Disconnect the fingerprint board FFC from the mainboard connector (E) (Figure 1-44).
6. Disconnect the card reader board FFC from the mainboard connector (F) (Figure 1-44).
7. Disconnect the left speaker cable from the mainboard connector (G) (Figure 1-44).

⚠ CAUTION:

FFCs and FPC can be damaged if removed while the mainboard connectors are locked.

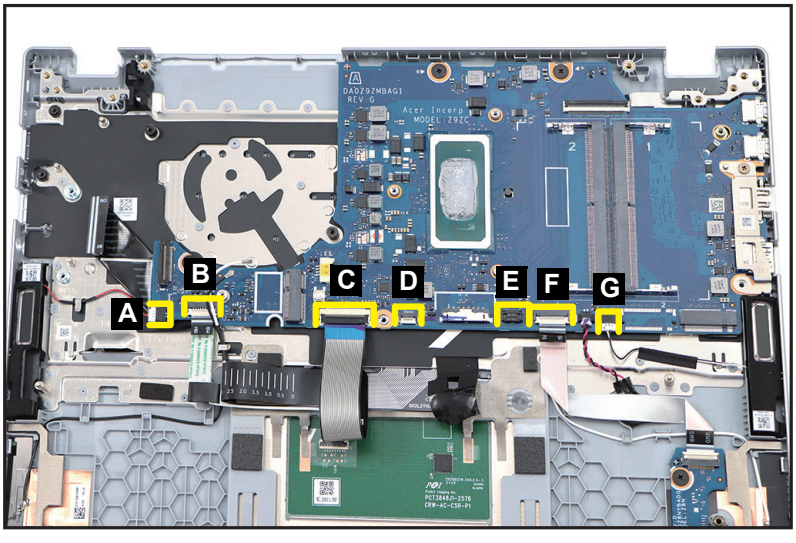


Figure 1-44. Mainboard Removal

8. Remove four (4) screws securing the mainboard and I/O bracket in place (Figure 1-45).
9. Using plastic tweezers, carefully pry to detach the adhesive tape underneath the RTC battery (H) and then remove the RTC battery (Figure 1-45).

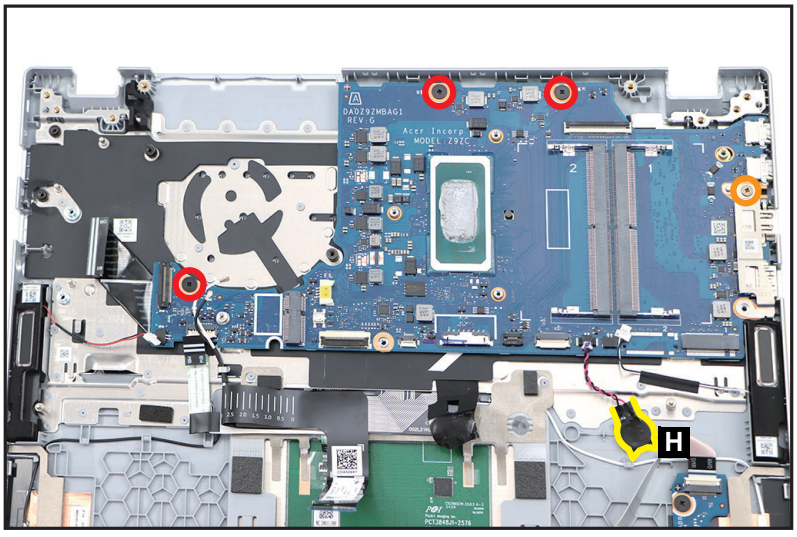


Figure 1-45. Mainboard Removal

10. Release the mainboard bracket from the guide and tab (marked with green circles) on the top assembly and remove it (Figure 1-46).

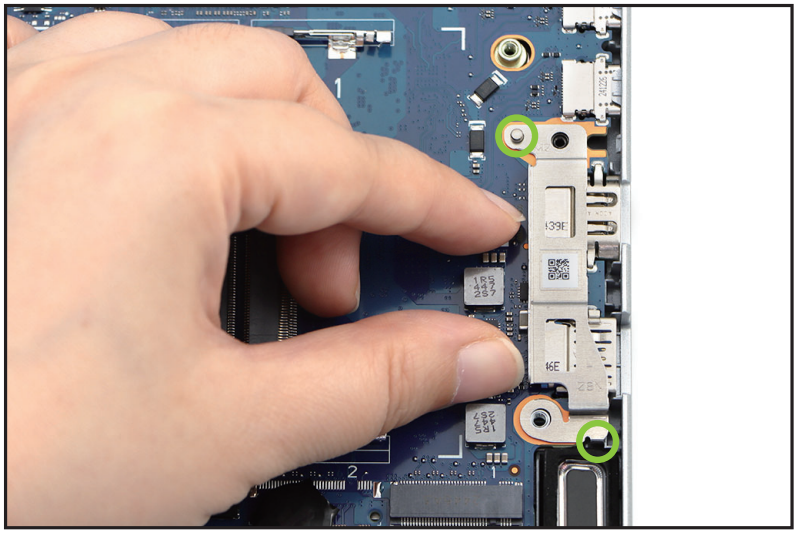


Figure 1-46. Mainboard Removal

11. Slightly lift to release the mainboard from the guides (marked with green circles) and then release its I/O ports from the I/O slots on the top assembly (Figure 1-47).

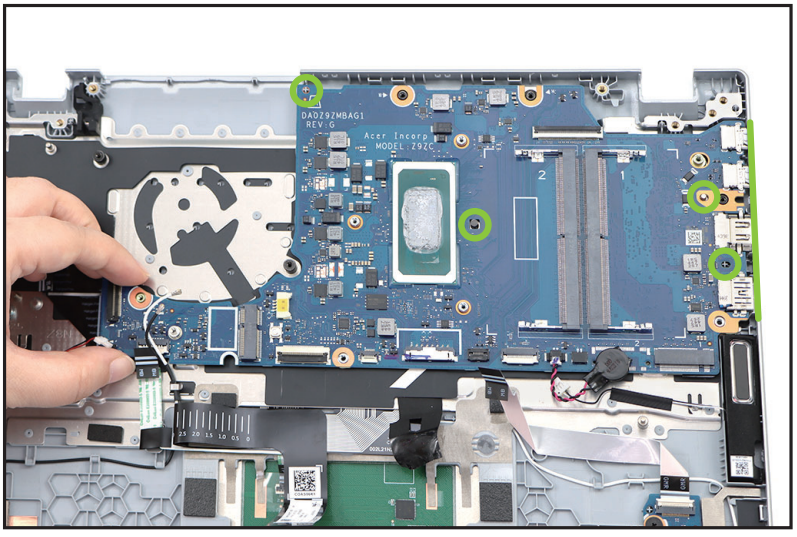


Figure 1-47. Mainboard Removal

12. Detach the acetate tape (I) from the USB board FFC (Figure 1-48).

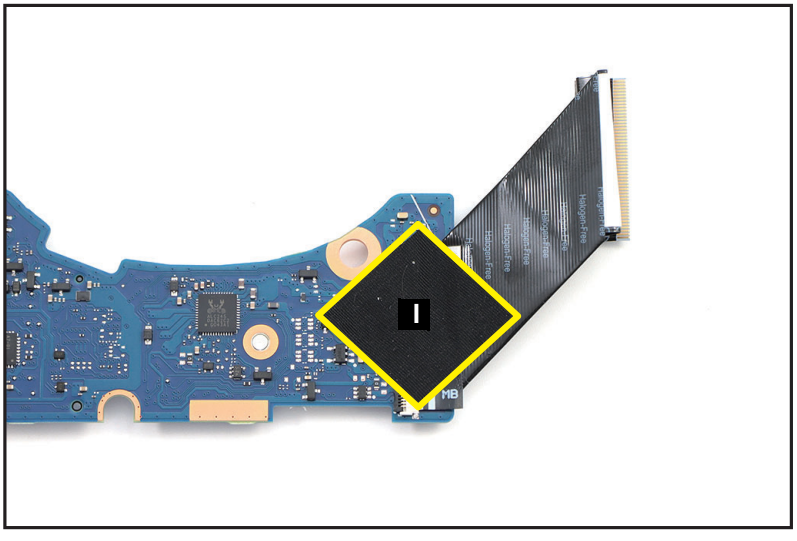


Figure 1-48. Mainboard Removal

13. Disconnect the UBS board FFC from the mainboard connector (J) (Figure 1-49).

⚠ CAUTION:

USB board FFC can be damaged if removed while the mainboard connector is locked.

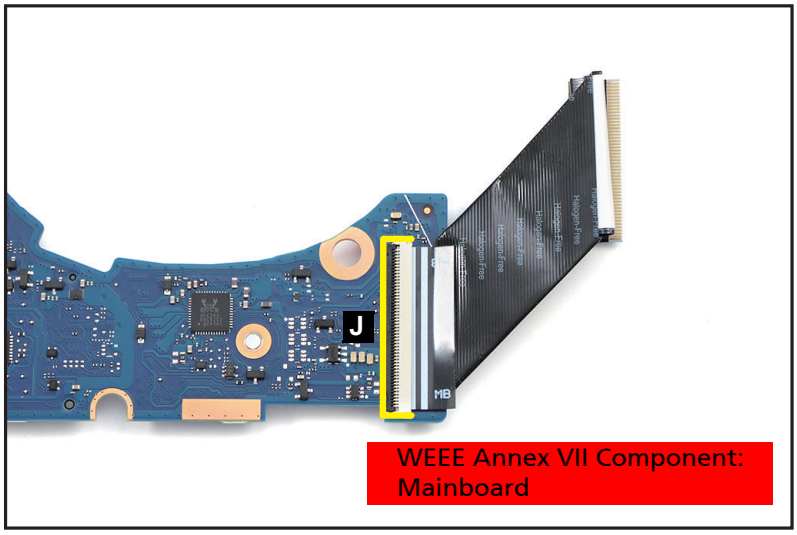


Figure 1-49. Mainboard Removal

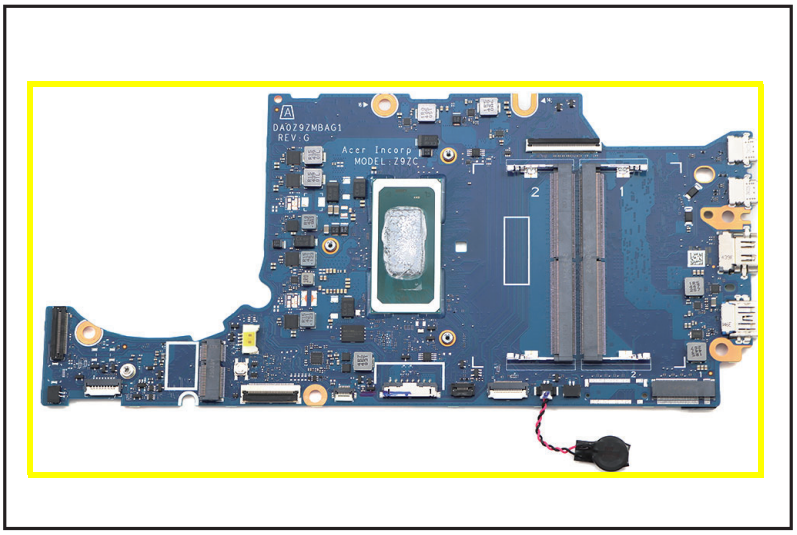


Figure 1-50. Mainboard

+ IMPORTANT:

Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in Figure 1-50. Remove the circuit board and follow local regulations for disposal.

LCD Bezel Removal

Prerequisite:

LCD Module Removal

1. Pry the LCD bezel from the upper side to release latches (Figure 1-51).



Figure 1-51. LCD Bezel Removal

2. Continue prying along the left and right sides of the bezel (Figure 1-52).



Figure 1-52. LCD Bezel Removal

3. Continue prying the bottom left side of the LCD bezel near the bezel cap (Figure 1-53).



Figure 1-53. LCD Bezel Removal

4. There is a tape behind the lower edge of the LCD bezel. Use a pry tool to slowly detach the LCD bezel away from the LCD panel as shown in Figure 1-54. While detaching the LCD bezel, ensure to follow the direction from left to right as shown in Figure 1-55.

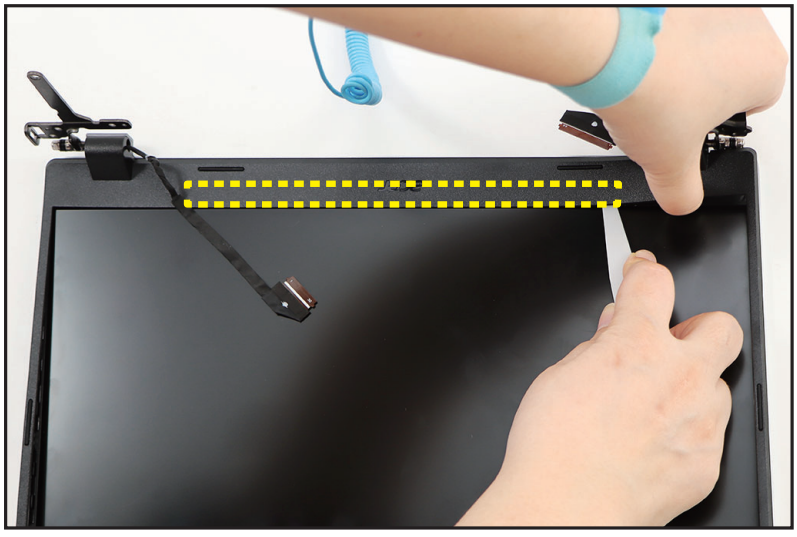


Figure 1-54. LCD Bezel Removal

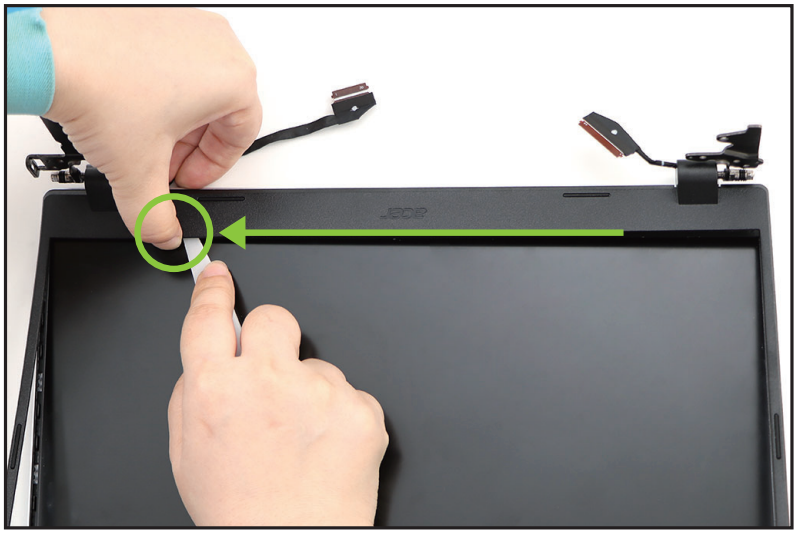


Figure 1-55. LCD Bezel Removal

5. Release the right side hinge cap and remove the LCD bezel from the LCD cover (Figure 1-56).



Figure 1-56. LCD Bezel Removal

LCD Panel Removal

Prerequisite:

LCD Bezel Removal

1. Release the LCD cable from the LCD hinge and from the bottom cable guides on the LCD cover (Figure 1-57).

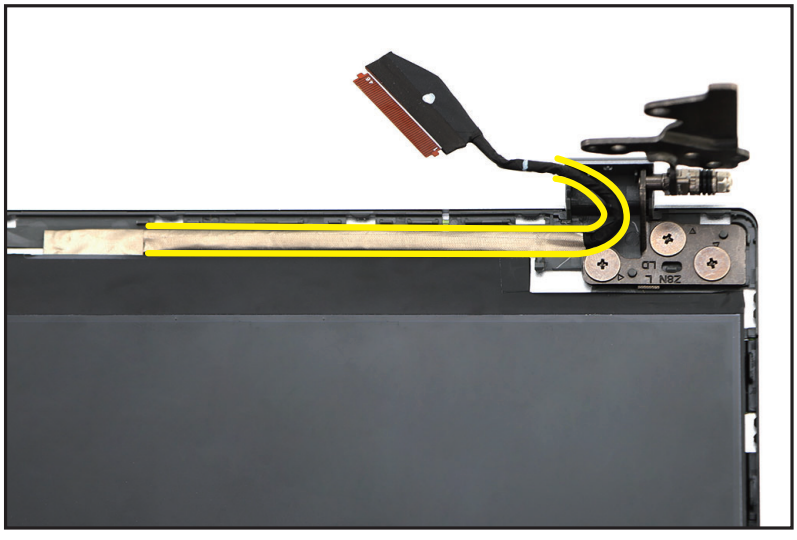


Figure 1-57. LCD Panel Removal

2. Pry slightly to access the double-sided mounting tape (A) underneath the LCD panel (B). Then pull to detach the double-sided mounting tape from the LCD cover. Repeat the same procedure to remove the double-sided mounting tape on another side of the LCD panel (Figure 1-58).

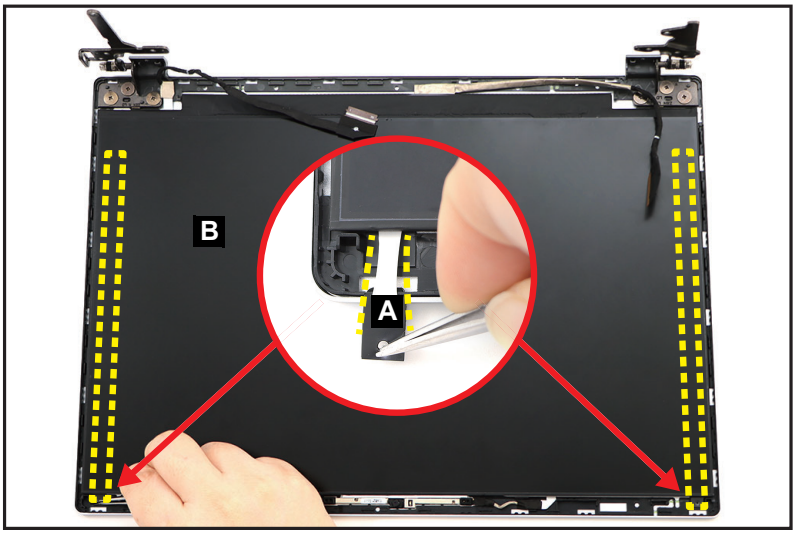


Figure 1-58. LCD Panel Removal

3. Carefully turn the LCD panel over so that the display panel is facing down on a flat surface (Figure 1-59).
4. Detach the mylar tape (C) securing the LCD cable to the LCD panel (Figure 1-59).

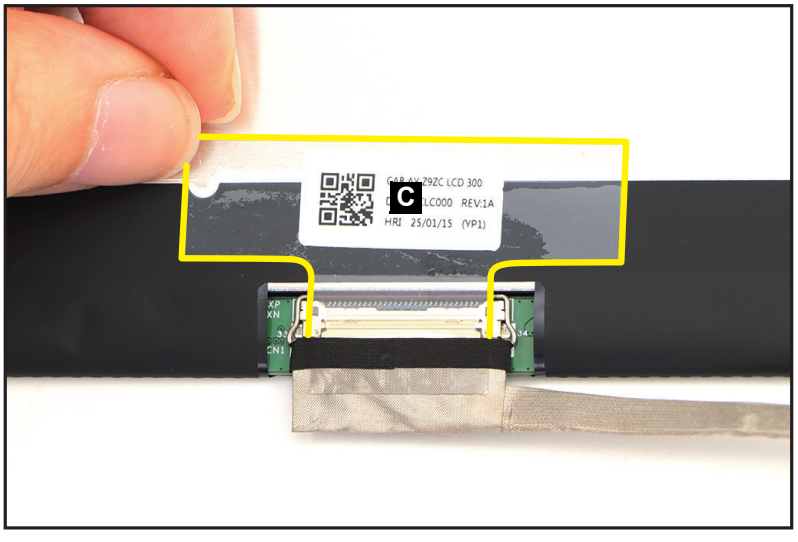


Figure 1-59. LCD Panel Removal

5. Release the LCD cable latch (D) (Figure 1-60).

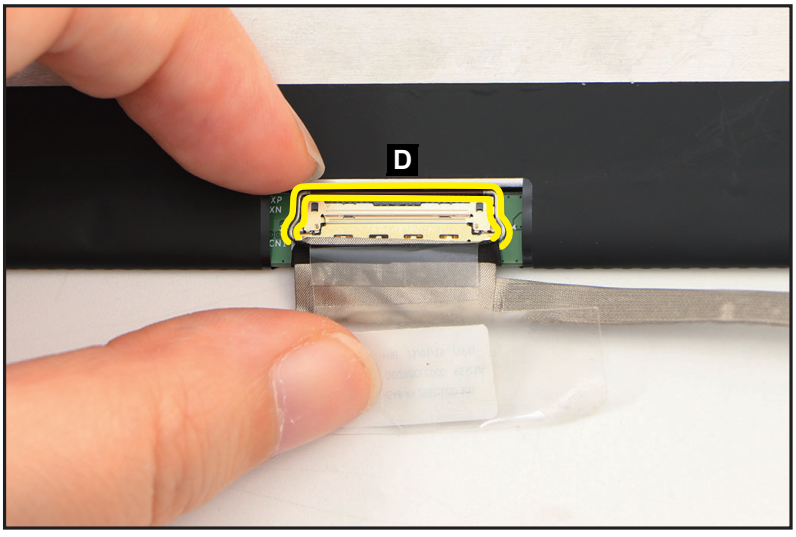


Figure 1-60. LCD Panel Removal

6. Disconnect the LCD cable from the LCD panel connector (E) (Figure 1-61).

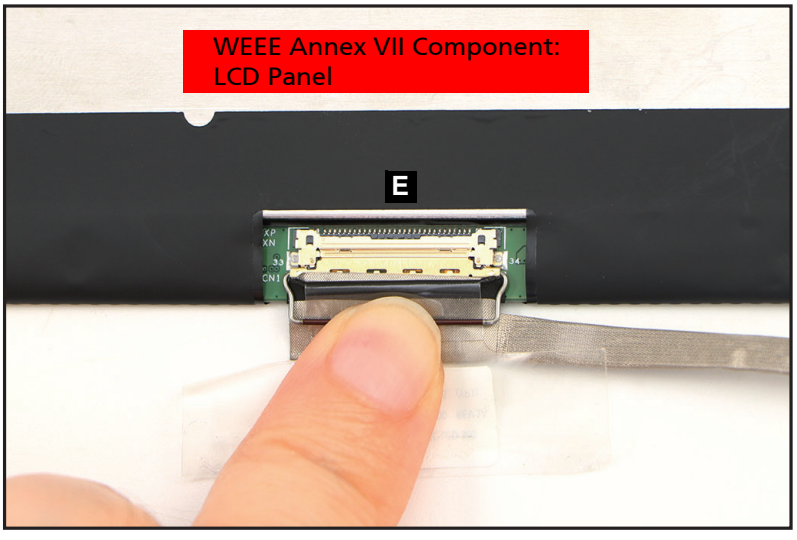


Figure 1-61. LCD Panel Removal

7. Remove the LCD panel.

⚠ CAUTION:

Make sure the LCD cable is moved away from the device to avoid damage during LCD Panel removal.

Top Assembly Removal (Keyboard Removal)

Prerequisite:

Ensure that the **Left Speaker**, **Card Reader Board**, **Mainboard, Right Speaker**, **Fan Module**, and **Touchpad Module** have been disassembled prior removing the top assembly.

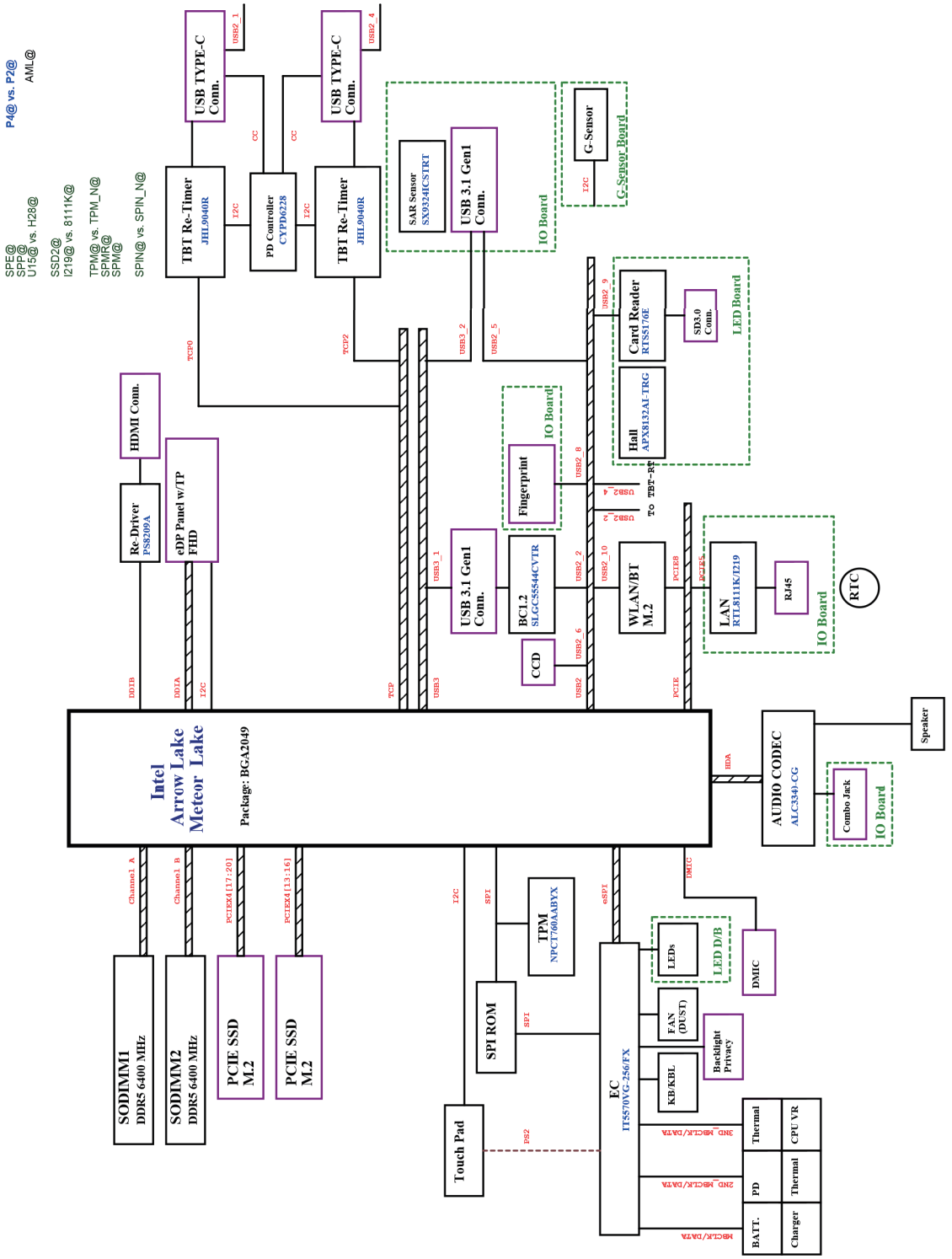
NOTE:

The keyboard is included as part of the top assembly and can not be disassembled. In the event that the keyboard can no longer be used, replace the entire top assembly.



Figure 1-62. Top Assembly (Keyboard)

Electronic Boards Diagrams



BIOS Setup Utility

This utility is a hardware configuration program built into a computer's BIOS (Basic Input/Output System).

The utility is pre-configured and optimized so most users do not need to run it. If configuration problems occur, the setup utility may need to be run. Refer to *Troubleshooting* when a problem arises.

To activate the utility, press ***F2*** during POST (power-on self-test) when prompted at the bottom of screen.

The default parameter of `F12 Boot Menu` is set to `Disabled`. To change the boot device without entering *BIOS Setup Utility*, set the parameter to `Enabled`.

To change the boot device without entering the BIOS SETUP, press ***F12*** during POST to enter the multi-boot menu.

Navigating the BIOS Utility

Six menu options are:

- Information
- Main
- Advanced
- Security
- Boot
- Exit

To navigate on the non-touchscreen models through the following:

- Menu or item- use the up and down arrow keys
- Expand selected item- press **Enter** or right arrow key.
- To switch item status or change the value of a parameter- press **Enter** or right arrow key.
- Exit - Press ***Esc***
- Load default settings - press ***F9***.
- Save changes and exit BIOS Setup Utility - press ***F10***.

To navigate on the touchscreen panel models through the following:

- Menu - click or tab on the option with the fingertip
- Item - scroll through the screen by moving one finger in a vertical direction or swiping two fingers up-and-down
- Change parameter value - use the on-screen keyboard or tab on the option.

NOTE:

Parameter values can be changed if enclosed in square brackets open the DIMM door open the DIMM door[ ]. Navigation keys appear at the bottom of the screen. Read parameter help carefully when making changes to parameter values. Parameter help is found in the Item Specific Help area of the screen.

IMPORTANT:

Be careful when changing any settings in the BIOS. Incorrect settings can cause your PC to malfunction or crash. Please make sure all important data is backed up before changing anything in the BIOS.

NOTE:

System information is subject to specific models.

BIOS

The following is a description of the tabs found on the InsydeH20 *BIOS Setup Utility* screen:

NOTE:

The screens provided are for reference only. Actual values may differ by model.

Information

The Information tab shows a summary of computer hardware information.

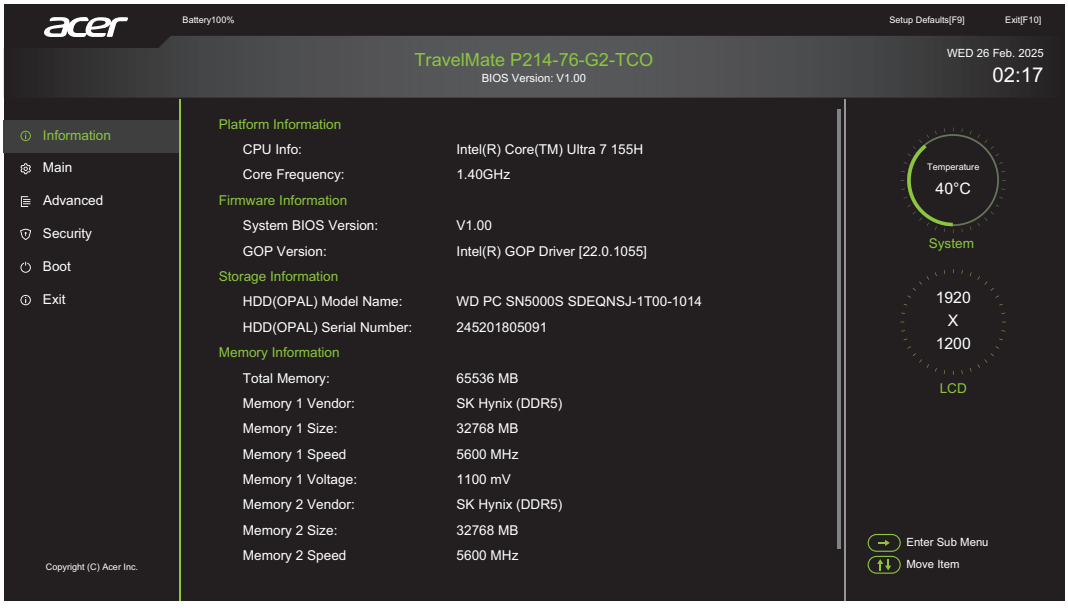


Figure 1-63. BIOS Information (Page 1)



Figure 1-64. BIOS Information (Page 2)

Table 1-1 describes the parameters shown in Figure 1-63 and Figure 1-64.

Table 1-1. BIOS Information

Parameter	Description
CPU Info	CPU (central processing unit) type
Core Frequency	CPU (central processing unit) speed
System BIOS Version	System BIOS version
GOP Version	GOP (graphics output protocol) firmware version of system
HDD(OPAL) Model Name	Model name of HDD (hard disk drive)
HDD(OPAL) Serial Number	Serial number of HDD
Total Memory	Total memory installed
Memory Vendor / Size / Speed / Voltage	Display the memory vendor, size, speed, and voltage respectively
Serial Number	Serial number of unit
Asset Tag Number	Asset tag number of system
Ownership Tag	Ownership tag number of system
Product Name	Product name of the system
Manufacturer Name	Manufacturer of system
UUID	Universally Unique Identifier

Table 1-1. BIOS Information (Continued)

Parameter	Description
LAN MAC Address	The device’s MAC address
Manufacture Date	Battery's manufacturing date
Maximum Capacity	View the battery’s capacity compared to its original state when it was new
Battery Temperature	Battery’s temperature
Cycle Count	Number of times the battery has been fully charged and discharged

Main

The Main tab allows the user to set system time and date, enable or disable boot option and enable or disable recovery.



Figure 1-65. BIOS Main (Page 1)

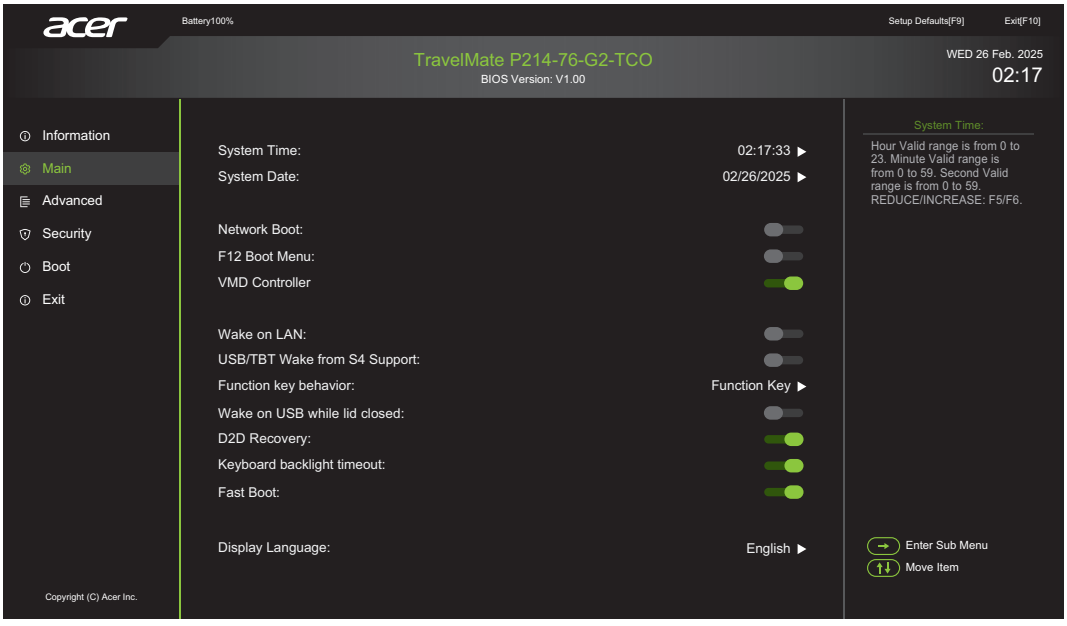


Figure 1-66. BIOS Main (Page 2)



Figure 1-67. BIOS Main (with hidden options)

Table 1-2 describes the parameters shown in Figure 1-65, Figure 1-66, and Figure 1-67.

Table 1-2. BIOS Main

Parameter	Description	Format/Option
System Time	BIOS system time in 24-hour format	Format: HH:MM:SS (hour:minute:second)
System Date	BIOS system date	Format MM/DD/YYYY (month/day/year)
Network Boot	Option to boot system from LAN (local area network)	Option: Enabled or Disabled
F12 Boot Menu	Option to use boot menu during POST	Option: Enabled or Disabled
VMD Controller (hidden option)	Option to set VMD controller	
Wake on LAN	Option to use Wake-on-LAN feature	Option: Enabled or Disabled
USB/TBT Wake from S4 Support	Option to enable/disable support USB/TBT wake from S4	Option: Enabled or Disabled
Function key behavior	Option to specify the *F1* to *F12* key behavior	Option: Function Key or Media Key

Table 1-2. BIOS Main (Continued)

Parameter	Description	Format/Option
Wake on USB while lid closed	Option to enable/disable the USB devices can wake the system, even if the lid is closed	Option: Enabled or Disabled
D2D Recovery	Option to use D2D Recovery feature	Option: Enabled or Disabled
Keyboard backlight timeout	Option to enable/disable the keyboard backlight timeout function	Option: Enabled or Disabled
Fast Boot	Option to enable/disable Fast boot	Option: Enabled or Disabled
Customization Key (hidden option)	Keyboard type status	
Display Language	Select the display language	Option: Multi-language options
Keyboard (hidden option)	Option to switch HID I2C and PS2 interface	Option: HID I2C or PS2

NOTE:

To show the hidden options.
- Press ***Ctrl*** +**S** key to show the "VMD Controller" option.
- Press ***Ctrl*** +**D** keys to show the "Customization Key" and "Keyboard" options.

Advanced

The Advanced tab allows users to set VTX/VTD function switch configurations and other advanced settings.



Figure 1-68. BIOS Advanced

Table 1-3 describes the parameters shown in Figure 1-68.

Table 1-3. BIOS Advanced

Parameter	Description	Option
Intel VTX	Option to use Intel VTX function switch	Enabled or Disabled
Intel VTD	Option to use Intel VTD function switch	Enabled or Disabled
Active Efficient Cores	Option to use active efficient cores	Option: Enabled or Disabled
GNA Device	Option to use GNA device	Option: Enabled or Disabled
Power on system by RTC Alarm	Option to enable/disable the RTC wake from S3/S4/S5 function	Enabled or Disabled
Device Configuration	Option to enable/disable the device or function	
Update BIOS	Option to update BIOS via USB storage	

Table 1-3. BIOS Advanced (Continued)

Parameter	Description	Option
Lock BIOS Version	Option to enable/disable the Lock BIOS Version function. If the setting is set to Enabled, the system cannot update/rollback the BIOS, and the BIOS version is fixed	Enabled or Disabled
Rollback Old BIOS Version	Option to enable/disable the Rollback Old BIOS Version function. If the setting is set to Supported, the system can rollback the BIOS to its older version	Supported or Unsupported
Export BIOS Settings to USB Storage	Option to save the current BIOS settings to the USB storage To perform this action: The system will display the available USB storage for users to save the settings file. Users will also have options either to go up or enter the directory If **Yes** is selected, the system will save the current BIOS settings as a file, and exit the dialog box	
Import BIOS Settings from USB Storage	Option to restore the BIOS settings from the USB storage. Only profile with same project name can be imported. Otherwise, a warning message will appear on the screen To perform this action: The system will display the available USB storage for users to select the settings file location. Once selected, it displays all files in the device and allow users to choose the intended file (only supported file can be loaded), and users will have options either to go up or enter the directory If **Yes** is selected, the system will load the file into BIOS, then exit the dialog box	
MAC Address Pass Through	Option to enable/disable the MAC address pass through function. If the setting is set to Enabled, it will clone system MAC address to Dock	
Wake On LAN from Dock	Option to enable/disable the WOL from Dock function. If the setting is set to Enabled, it will allow the WOL event triggered from Dock to wake the system	Enabled or Disabled
System Health Indicator	When an abnormality is detected, the system health indicator will flash the indicator to immediately notify the user and remind the user to properly check the system	

Security

The Security tab shows parameters that safeguard and protect the computer from unauthorized use.

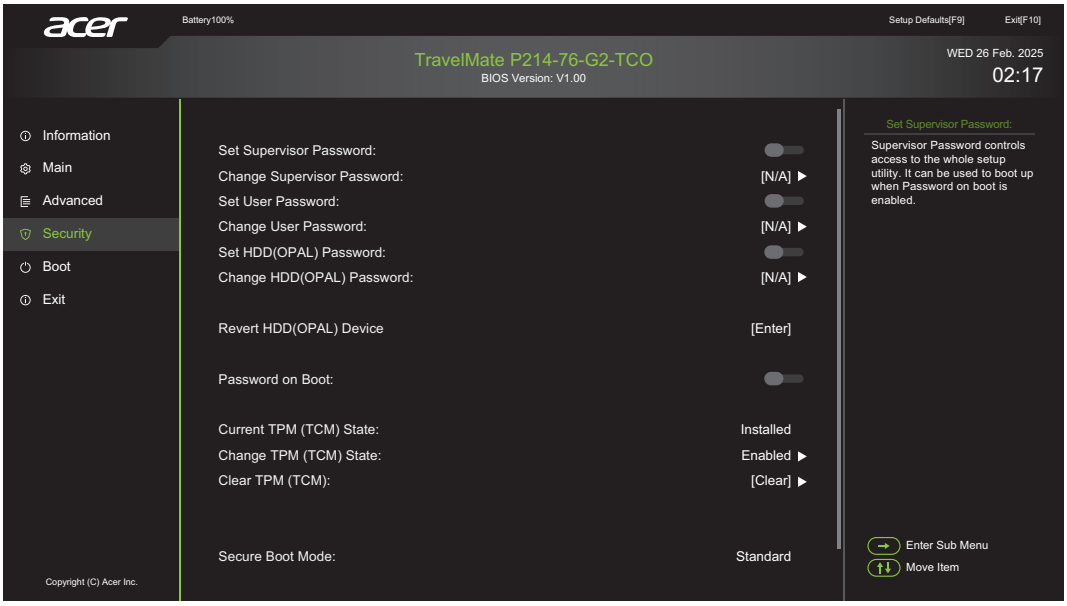


Figure 1-69. BIOS Security (Page 1)



Figure 1-70. BIOS Security (Page 2)

Table 1-4 describes the parameters shown in Figure 1-69 and Figure 1-70.

Table 1-4. BIOS Security

Parameter	Description	Option
Set Supervisor Password	Option to set supervisor password	Disabled or Enabled
Change Supervisor Password	Change supervisor password	N/A
Set User Password	Option to set user password	Disabled or Enabled
Change User Password	Change user password	N/A
Set HDD(OPAL) Password	Option to set HDD password	Disabled or Enabled
Change HDD(OPAL) Password	Change HDD password	N/A
Revert HDD(OPAL) Device	Revert HDD device	Enter
Password on Boot	Shows if password is required during system boot ⚠ **CAUTION:** If Password-on-Boot authentication is enabled, the BIOS password can only be cleared by initiating the Crisis Disk Recovery procedure.	Disabled or Enabled
Current TPM (TCM) State	Display the TPM status	N/A
Change TPM (TCM) State	Option to use the TPM function	Disabled or Enabled
Clear TPM (TCM)	Remove all TPM context associated with a specific owner	N/A
Secure Boot Mode	Display the current Secure Boot Mode status. • **Standard**: Default Option. No manual change has been done to secure boot setting or users have previous restored security boot to factory default. • **Custom**: Contents of the Secure Boot signature database has been modified with "Erase All Secure Boot Setting" or "Select an UEFI File as Trusted Executing".	Standard or Custom
Erase all Secure Boot Setting	Option to erase all secure boot setting	N/A
Select an UEFI file as trusted for executing	Option to select an UEFI file as trusted for executing	N/A

Table 1-4. BIOS Security (Continued)

Parameter	Description	Option
Restore Secure Boot to Factory Default	Option to restore secure boot to factory default	N/A
Absolute Persistence Module	Option to enable or disable the absolute persistence module	Disabled or Enabled

NOTE:

When prompted to enter password, three attempts are allowed before system halts. Resetting BIOS password may require computer be returned to dealer.

Setting a Password

Perform the following to set the password:

1. Use the ↑ and ↓ keys to highlight the `Set User Password` or `Set Supervisor Password` parameter and press ***Enter***. The dialog box appears.
2. Enter a new password in the `Enter New Password` field. Passwords are not case sensitive and the length must not exceed 12 alphanumeric characters (A-Z, a-z, 0-9). Enter the password again in the `Confirm New Password` field.

IMPORTANT:

Use care when typing a password. Characters do not appear on the screen.

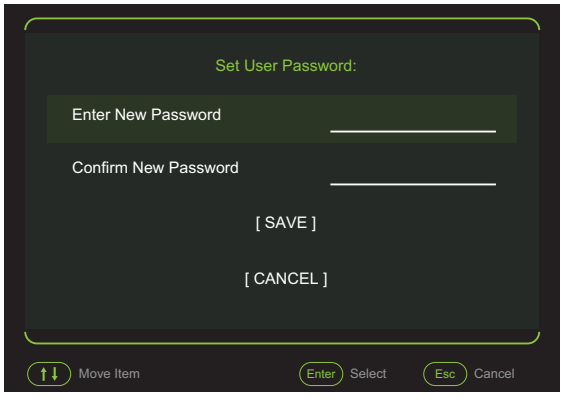


Figure 1-71. Set User Password

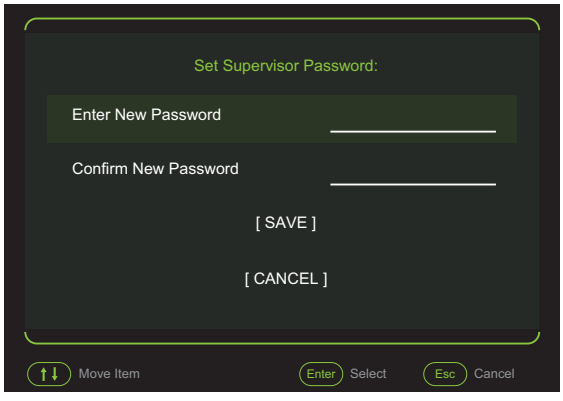


Figure 1-72. Set Supervisor Password

3. Select "SAVE" and press ***Enter***. The Setup Notice dialog box appears.

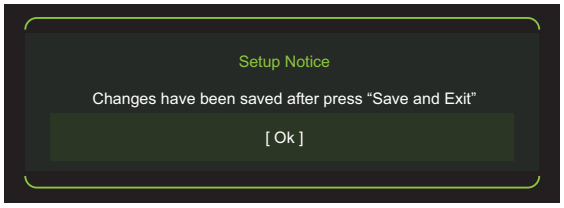


Figure 1-73. Setup Notice

NOTE:

Password on Boot must be set to Enabled to activate password feature.

4. Press ***Enter*** to complete the password setting. After the password has been set, the computer enables to change the password.

NOTE:

To change an existing password, refer to *Changing a Password*.

5. Press ***F10*** and select "SAVE & EXIT". Then press ***Enter*** to save changes and exit *BIOS Setup Utility*.

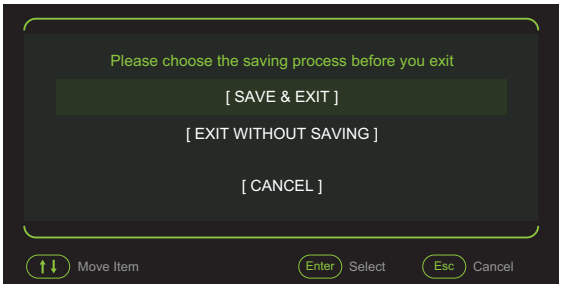


Figure 1-74. Save Configuration Changes and Exit

Changing a Password

Perform the following:

1. Use the ↑ and ↓ keys to highlight `Change User Password` or `Change Supervisor Password` and press ***Enter***. The dialog box appears.
2. Enter the current password in the `Enter current password` field and press ***Enter***.
3. Enter the new password in the `Enter New Password` and `Confirm New Password` fields.

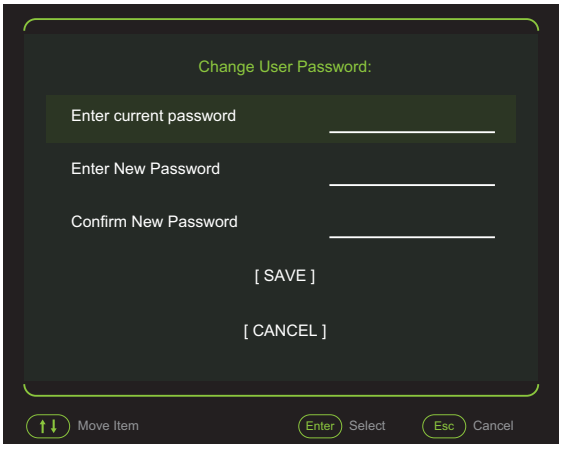


Figure 1-75. Change User Password

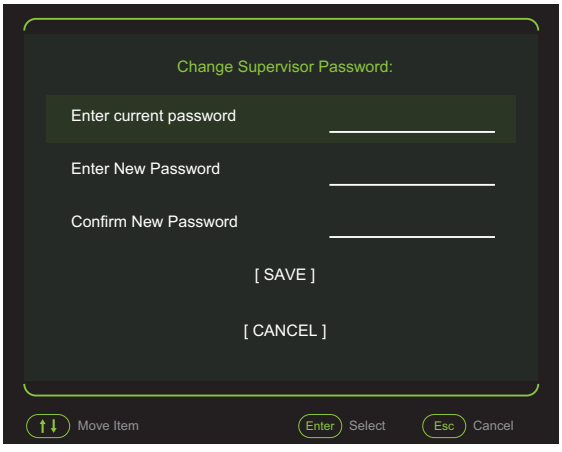


Figure 1-76. Change Supervisor Password

4. Select "SAVE" and press ***Enter***. If passwords match, the Setup Notice dialog box appears.

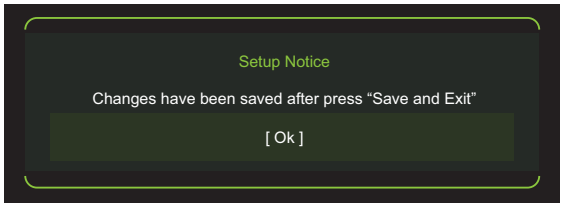


Figure 1-77. Setup Notice

NOTE:
If passwords do not match, the Setup Warning dialog box appears. Retype passwords.

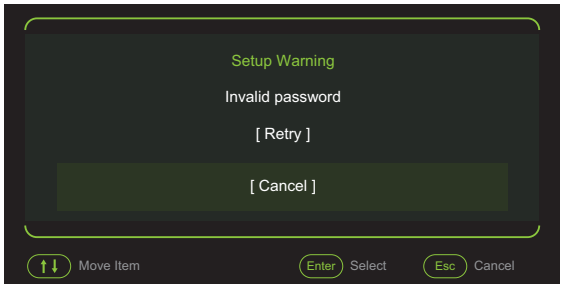


Figure 1-78. Setup Warning

5. Press ***Enter*** to complete the password modification.
6. Press ***F10*** and select "SAVE & EXIT". Then press ***Enter*** to save changes and exit *BIOS Setup Utility*.

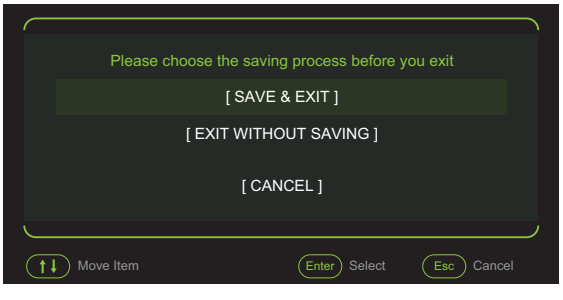


Figure 1-79. Save Configuration Changes and Exit

Removing a Password

1. Use the ↑ and ↓ keys to highlight `Set User Password` or `Set Supervisor Password` and press ***Enter***. The dialog box appears.
2. Enter the current password in the `Enter Old password` field and press ***Enter***.

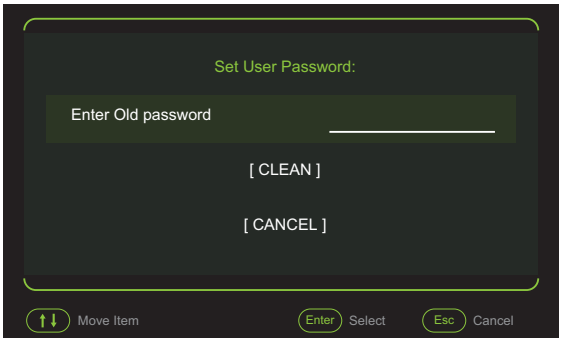


Figure 1-80. Remove User Password

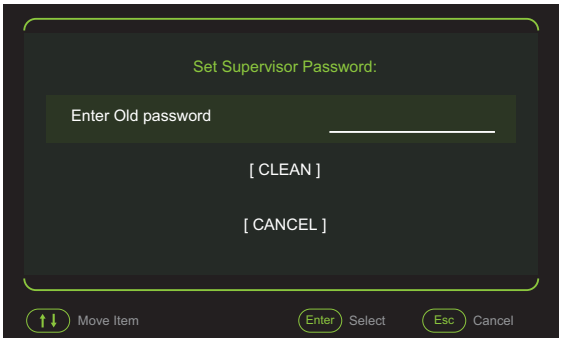


Figure 1-81. Remove Supervisor Password

3. Select "`CLEAN`" and press ***Enter***. The `Setup Notice` dialog box appears.

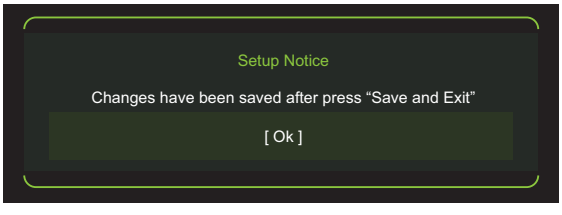


Figure 1-82. Setup Notice

4. Press ***Enter*** to complete the password removal.

5. Press ***F10*** and select "`SAVE & EXIT`". Then press ***Enter*** to save changes and exit *BIOS Setup Utility*.

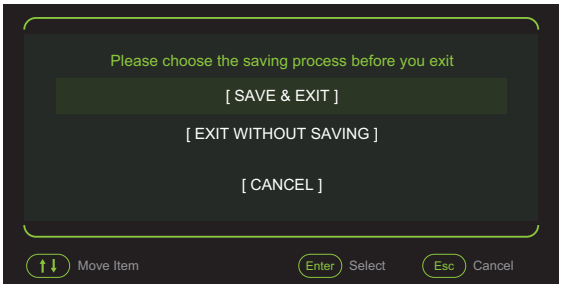


Figure 1-83. Save Configuration Changes and Exit

Boot

The Boot tab allows changes to the order of boot devices used to load the operating system. Bootable device is Windows Boot Manager.

- Windows Boot Manager

If more than one options, use ↑ and ↓ keys to select a device and press ***F5*** or ***F6*** to change the value.

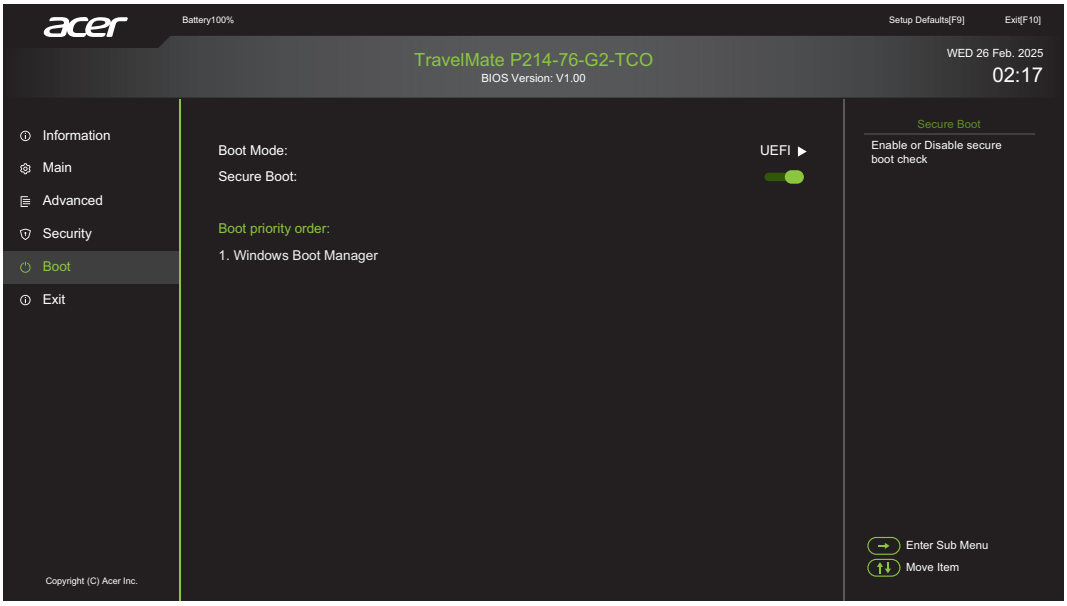


Figure 1-84. BIOS Boot

Table 1-5 describes the parameters in Figure 1-84.

Table 1-5. BIOS Boot

Parameter	Description
Boot Mode	Set the system Boot Mode.
Secure Boot	Enable or Disable Secure Boot check.

Exit

The Exit tab allows users to save or discard changes and quit the *BIOS Setup Utility*.



Figure 1-85. BIOS Exit

Table 1-6 describes the parameters in Figure 1-85.

Table 1-6. BIOS Exit

Parameter	Description
Exit Saving Changes	Exit BIOS utility and save setup item changes to system.
Exit Discarding Changes	Exit BIOS utility without saving setup item changes to system.
Save & Shutdown	Save the changes and shutdown the system.
Load Factory Setup Defaults	Load setup default values for all setup items.
Save Settings to User Setup Defaults	Save the current settings as the user-defined default settings.
Load User Setup Defaults	Load the user-defined default settings.

Troubleshooting

This chapter shows you how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. **By performing any of these procedures you acknowledge that any remaining warranty applicable to your computer will be voided if any damage is done to the unit or components during the repair.**

Introduction

This chapter contains information about troubleshooting common problems associated with the notebook.

General Information

The following procedures are a guide for troubleshooting computer problems. The step by step procedures are designed to be performed as described.

NOTE:

The diagnostic tests are intended for Acer products only. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain as much detailed information as possible about the problem.
2. If possible, verify the symptoms by re-creating the failure through diagnostic tests or repeating the operation that led to the problem.
3. Use Table 1-7 with the verified symptom to determine the solution.

Table 1-7. Common Problems

Symptoms (Verified)
Power On Issues
No Display Issues
LCD Picture Failure
Internal Keyboard Failure
Touch Pad Failure
Internal Speaker Failure
Audio and Card Reader Failure
Other Functions Failure
Intermittent Problems
Undetermined Problems

4. If the Issue is still not resolved, please contact Acer local service.

NOTE:

Do not replace non-defective FRU parts.

Power On Issues

If the system does not power on, perform the following:

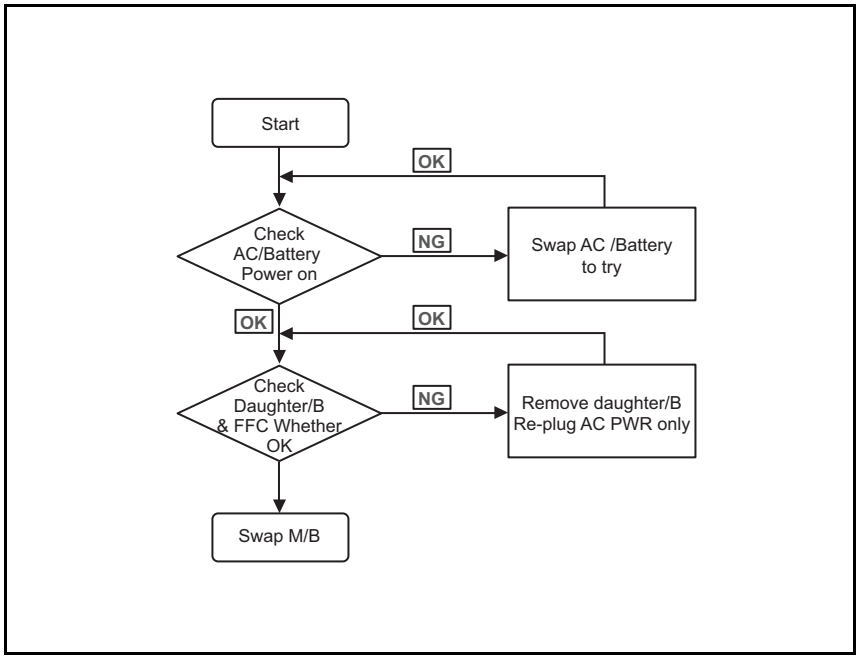


Figure 1-86. Power On Issue

Computer Shuts Down Intermittently

If the system powers off at intervals, perform the following.

1. Makes sure the power cable is properly connected to the computer and the electrical outlet.
2. Remove all extension cables between the computer and the outlet.
3. Remove all surge protectors between the computer and the electrical outlet. Plug the computer directly into a known serviceable electrical outlet.
4. Disconnect the power and open the casing to check the thermal unit and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, please contact Acer local service.

No Display Issues

If the Display does not work, perform the following:

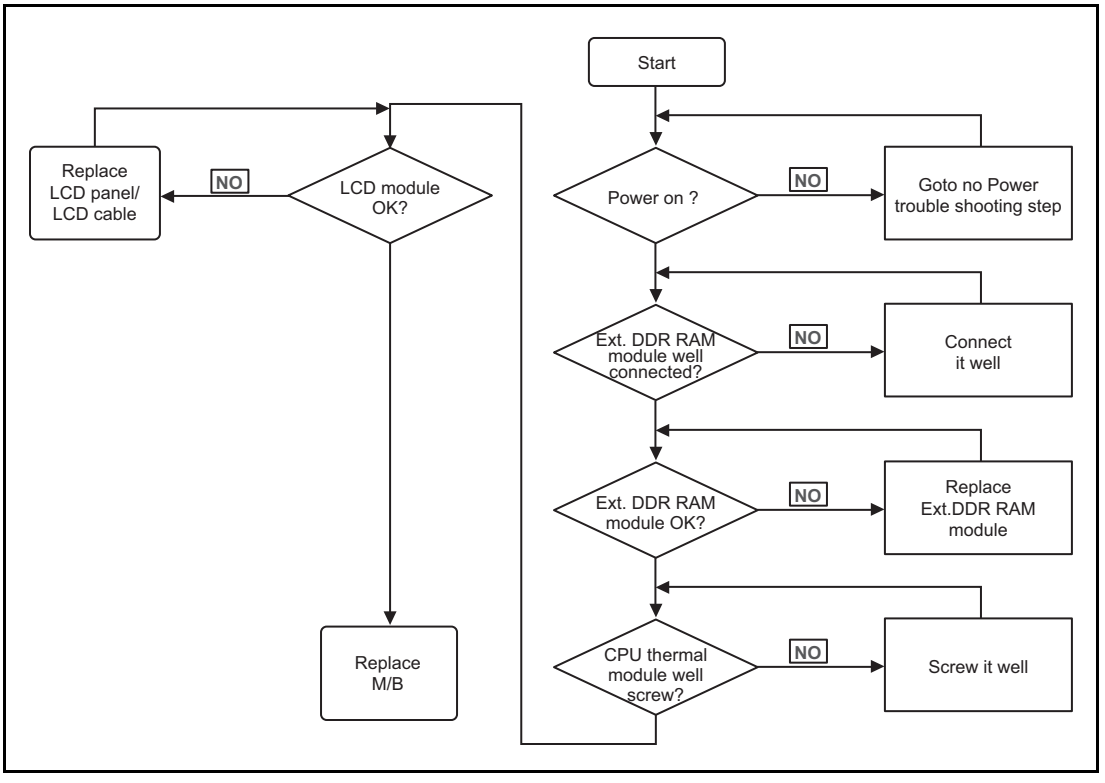


Figure 1-87. No Display Issue

No POST or Video

If the POST or video does not appear, perform the following:

1. Make sure that internal display is selected. Then switch between the internal display and the external display. Reference product pages for specific model procedures.
2. Make sure the computer has power by checking for one of the following:
   - Fans start up
   - Status LEDs illuminate

If no power, refer to *Power On Issues*.

3. Drain stored power by removing the power cable and battery. Hold the power button for 10 seconds.
4. Connect the power and reboot the computer.
5. Connect an external monitor to the computer and switch between the internal display and the external display.
6. If the POST or video appears on the external display only, refer to *LCD Picture Failure*.
7. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs.

8. Start the computer. If the computer boots correctly, add the devices one by one until the failure point is discovered.
9. Reseat the memory modules.
10. Remove the drives (refer to *Disassembly Procedures*).
11. If the Issue is still not resolved, please contact Acer local service.

Abnormal Video

If the video appears abnormal, perform the following:

1. Boot the computer.
   - If permanent vertical/horizontal lines or dark spots appear in the same location, the LCD is faulty and should be replaced. Refer to *Disassembly Procedures*.
   - If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced.

NOTE:
Make sure that the computer is not running on battery alone as this may reduce display brightness.

2. Adjust the brightness to its highest level. Refer to the User Manual for instructions on adjusting the settings. If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. Refer to *Disassembly Procedures*.
3. Check the display resolution is correctly configured:
   - Minimize or close all Windows.
   - If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   - If desktop display resolution is not normal, right-click on the desktop and select `Personalize Display Settings`.
   - Click and drag the Resolution slider to the desired resolution.
   - Click ***Apply*** and check the display. Readjust if necessary.
4. Roll back the video driver to the previous version if updated.
5. Remove and reinstall the video driver.
6. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks
   - There are no device conflicts
   - No hardware is listed under `Other Devices`
7. If the Issue is still not resolved, please contact Acer local service.
8. Run the *Windows Memory Diagnostic* from the operating system DVD and follow the on-screen prompts.
9. If the issue is still not resolved, please contact Acer local service.

LCD Picture Failure

If the LCD fails, perform the following:

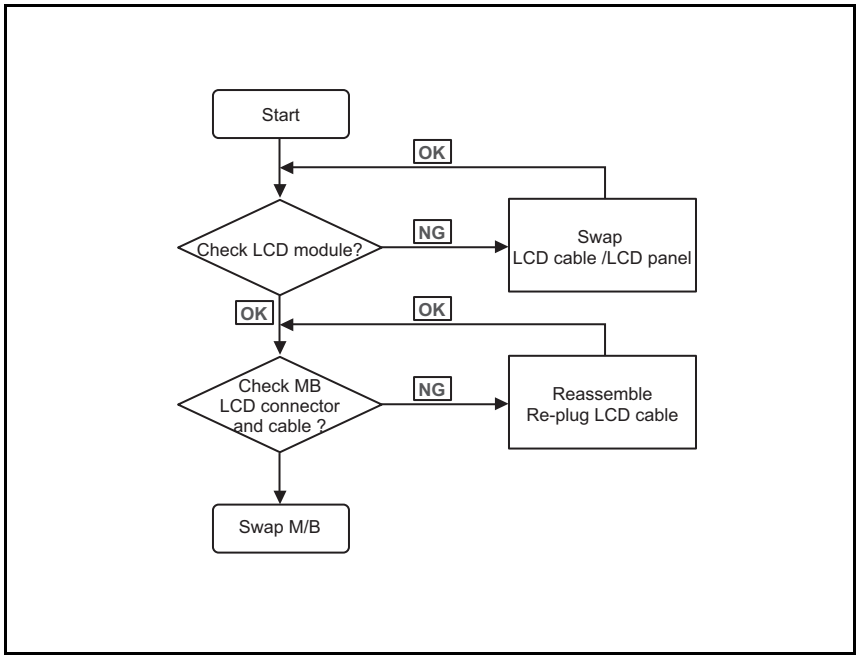


Figure 1-88. LCD Failure

Internal Keyboard Failure

If the internal keyboard fails, perform the following:

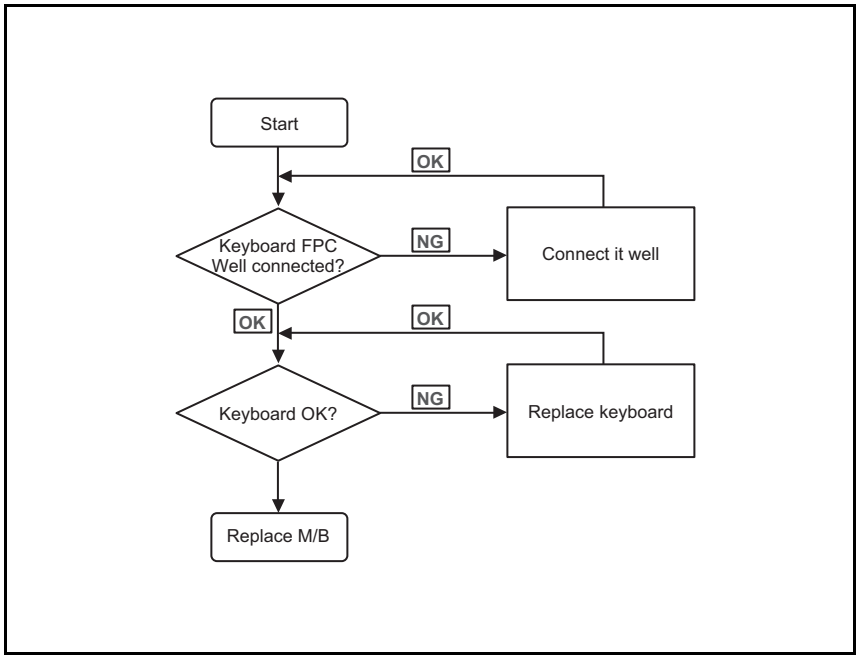


Figure 1-89. Internal Keyboard Failure

Touch Pad Failure

If the touch pad fails, perform the following:

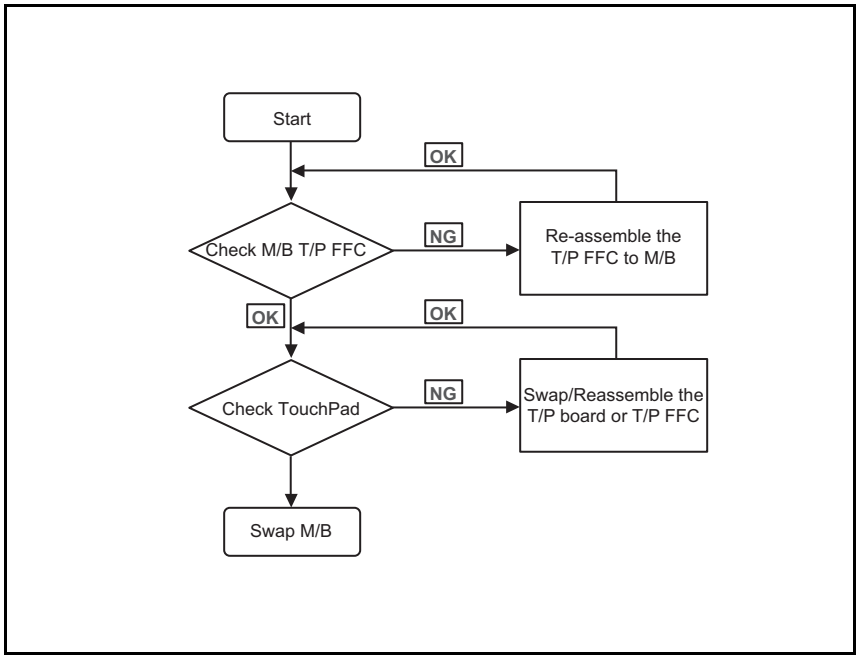


Figure 1-90. Touch Pad Failure

Internal Speaker Failure

If the internal speakers fail, perform the following:

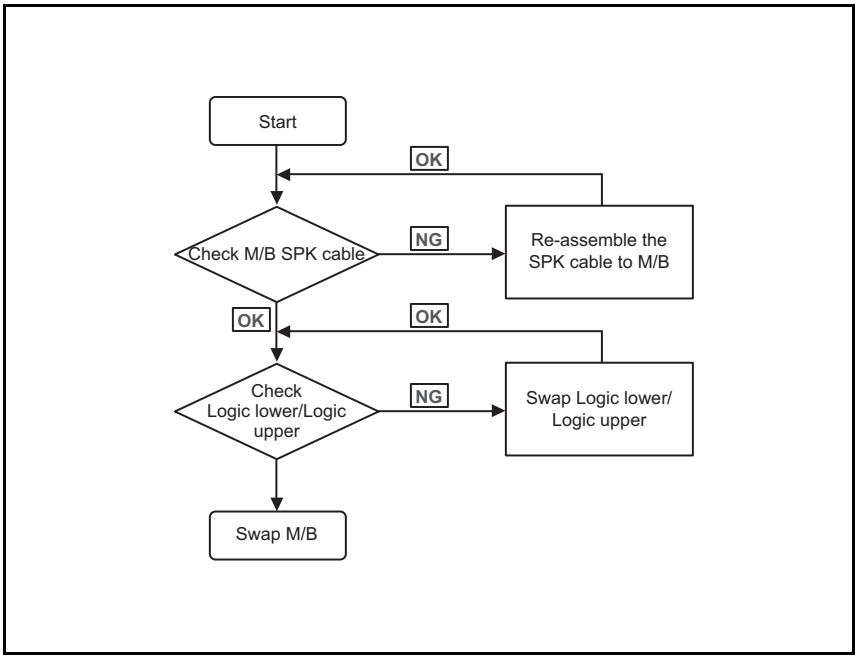


Figure 1-91. Internal Speaker Failure

Sound Problems

Perform the following, one at a time.

1. Boot the computer.
2. If updated recently, roll back the audio driver to the previous version. Remove and reinstall the audio driver.
3. Make sure that all volume controls are set mid range:
   - Click the volume icon on the taskbar
   - Drag the slider to 50. Confirm that the volume is not muted.
   - Click Mixer to verify that other audio applications are set to 50 and not muted.
4. Remove any recently installed hardware or software.
5. Restore system and file settings from a known good date using `System Restore`.
6. Reinstall the operating system.
7. If the issue is still not resolved, please contact Acer local service.

Audio and Card Reader Failure

If audio or card reader fails, perform the following:

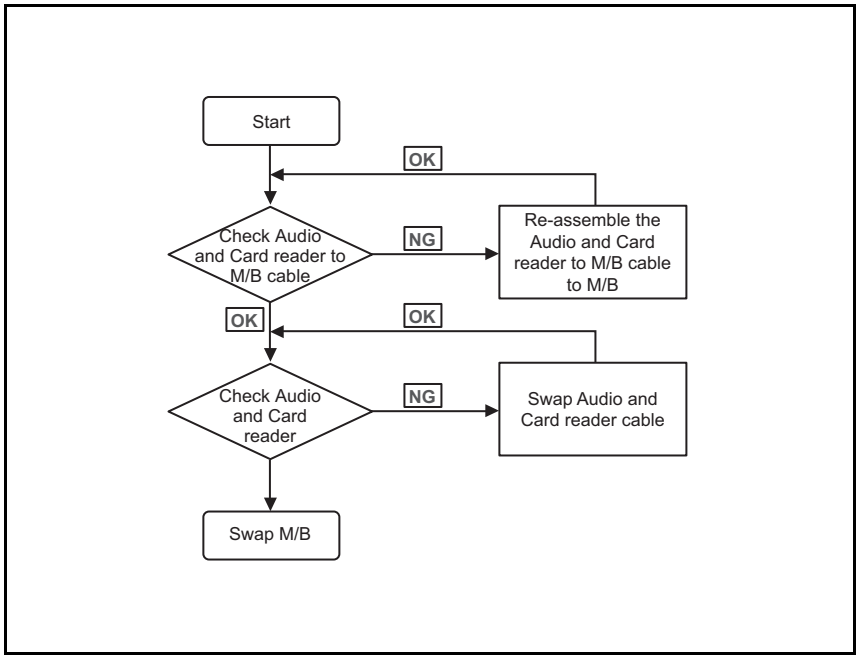


Figure 1-92. Audio and Card Reader Failure

Other Functions Failure

1. Check if the drives are functioning correctly.
2. Check if the test fixtures are functioning correctly.
3. Change the mainboard to check if the current one is defective.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, perform the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If an error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems do not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Perform the following procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE:
Verify that all attached devices are supported by the computer.

NOTE:
Verify that the power supply being used at the time of the failure is operating correctly. (Refer to *Power On Issues*).

1. Remove power from the computer.
2. Visually check components for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
   - Non-Acer devices
   - Printer, mouse, and other external devices
   - Battery pack
   - Hard disk drive
   - DIMM
   - BD/CD-ROM/Diskette drive Module
   - PC Cards
4. Apply power to the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, connect the removed devices one at a time until failing FRU is found.
7. If the problem remains, replace the following FRUs:
   - System board
   - LCD assembly

Exploded Diagrams

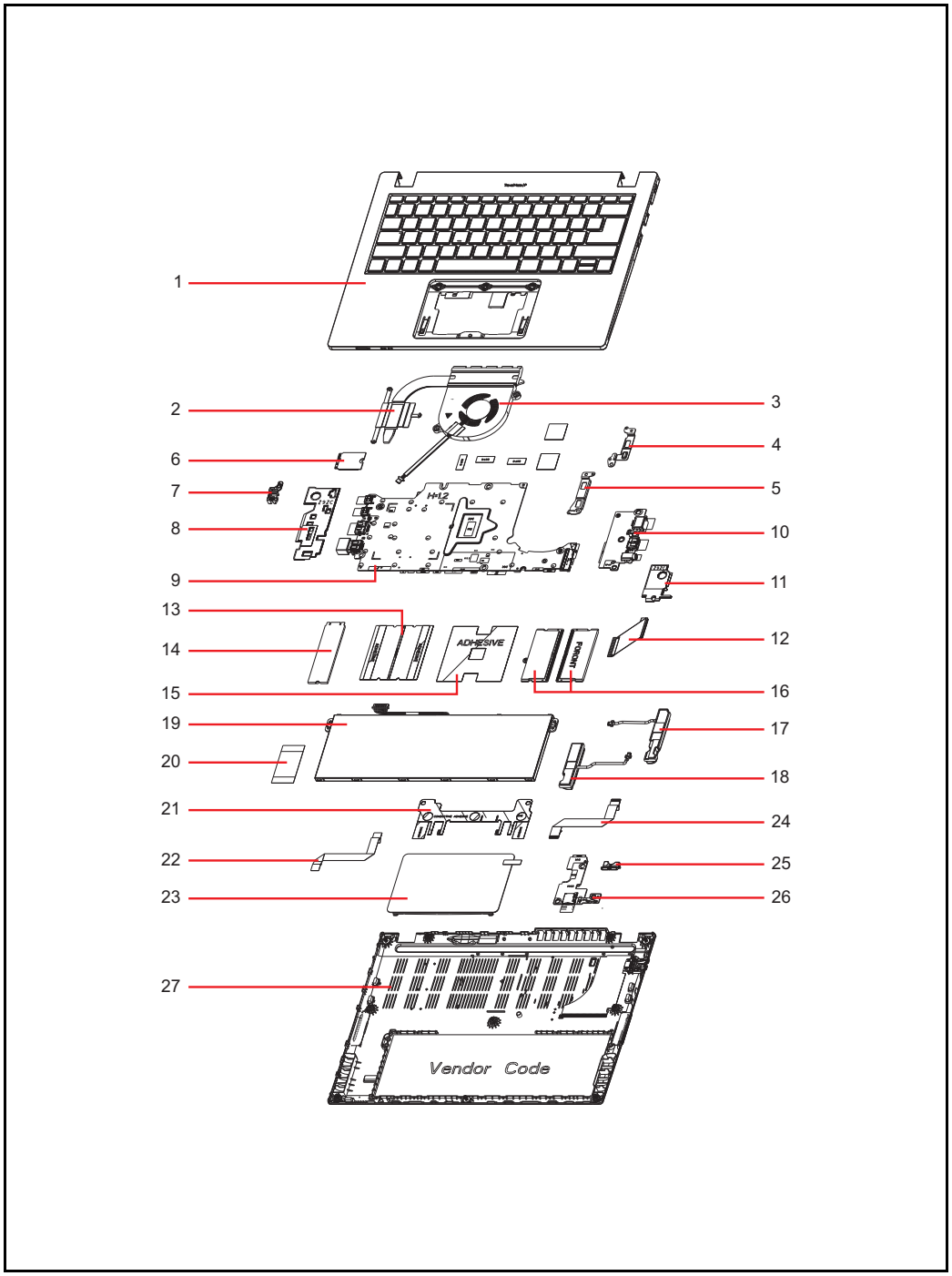


Figure 1-93. System Exploded Diagram

Table 1-8. System Exploded Diagram

No.	Description
1	KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Arabic NK.I1313.3BT/NK.I1317.0VM
2	HEAT SINK UMA
3	FAN
4	BRACKET IO BOARD
5	BRACKET MB
6	Wireless LAN Intel Wi-Fi 6E BT5.3 AX211.NGWG.NV Intel 2x2 M.2 2230 CNVi GFP2 No vPro
7	RUBB SI FOR UPPERCASE
8	BOARD LED
9	Mainboard TMP214-76-G2-TCO CU5125H UMA w/TPM
10	BOARD IO
11	ABSOR W/ALFOIL,INS MYLAR FOR IO BOARD
12	CABLE IO BOARD
13	AL FOIL W/INS MYLAR
14	Flash Disk WD SSD NAND 1024GB SN5000S SDEQNSJ-1T00-1014 LF+HF
15	ABSORBER W/MYLAR ASSY
16	Memory MICRON SO-DIMM DDRV 5600 8GB MTC4C10163S1SC56BD1 LF+HF 1Rx16, 1b Y52K, D-die
17	SPEAKER R
18	SPEAKER L
19	Battery PANASONIC Typ.53Wh 4590mAh 3S1P AP23A5L 248x84.4x5.5(mm) AP23A 11.55V 70W Polymer (production by PECSZ)
20	INSULATOR MYLAR ON BATTERY CABLE
21	COND FABRIC W/MYLAR ASSY TP
22	CABLE TOUCHPAD
23	TOUCHPAD MODULE NC.24611.070
24	CABLE LED BOARD
25	RUBBER FOR LED BOARD
26	BOARD LED
27	LOWER CASE FOR 65W&70W

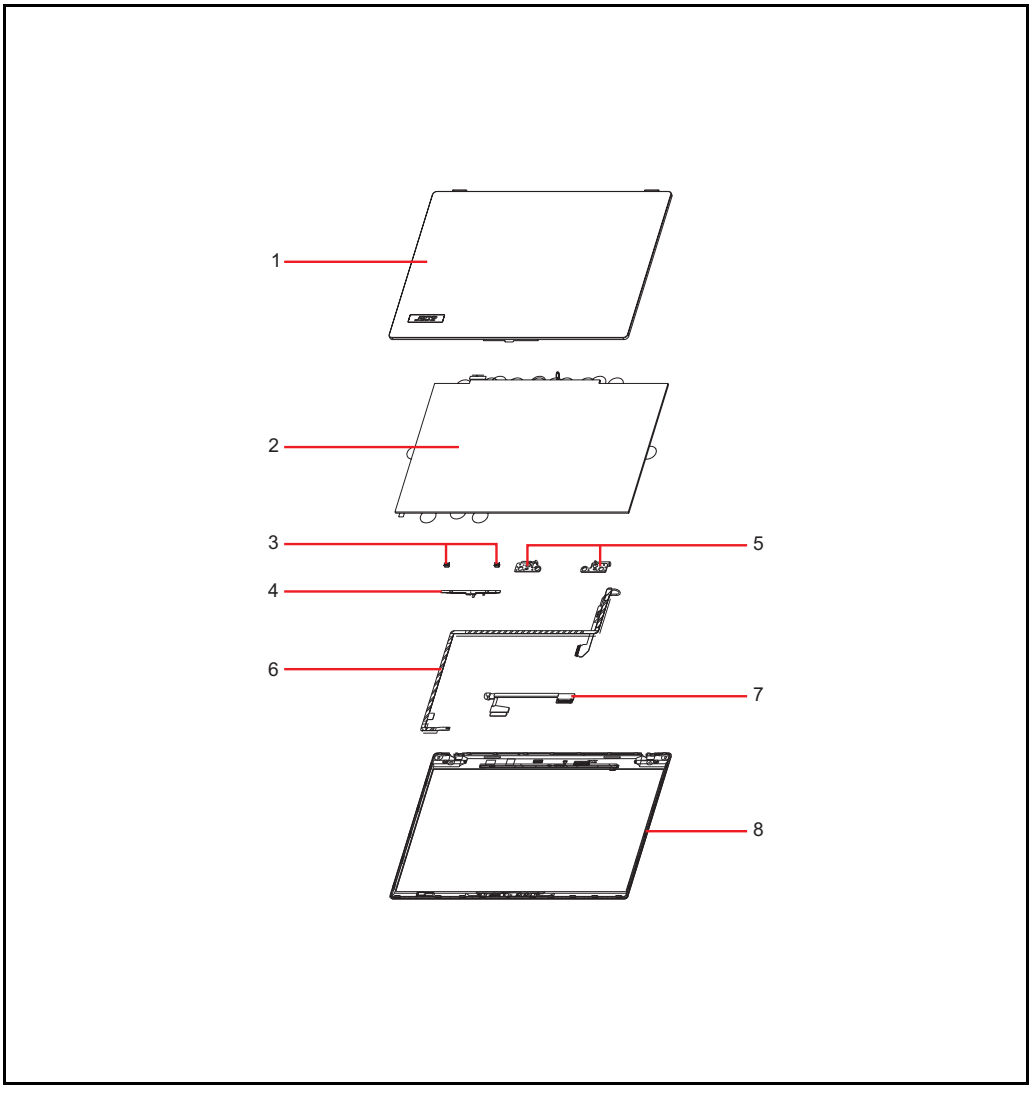


Figure 1-94. LCD Assembly Exploded Diagram

Table 1-9. LCD Assembly Exploded Diagram

No.	Description
1	LCD COVER N14WUSUPILB
2	LED LCD Panel AUO 14" WUXGA IPS None Glare B140UAN02.0 H/W 2A 400nit sRGB 100% 60Hz 25ms 1200:1 (Narrow border, 2.4t)
3	RUBBER FOR CAMERA
4	Camera CHICONY FHD FF CKFKF31-1 OV2740 SPCA2093N 1L4C066F2 (w/BG) ZTS6735 USB 3.2T TNR
5	HINGE L
	HINGE R
6	CABLE CAMERA IR

Table 1-9. LCD Assembly Exploded Diagram (Continued)

No.	Description
7	CABLE LCD N14WUSUPILB
8	LCD BEZEL

FRU List

This list is for reference only, please contact Acer local service to order the correct replacement part and availability.

Table 1-10. FRU List

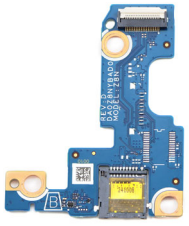
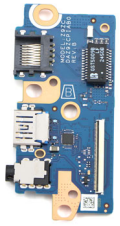
Category	Picture	Description
ADAPTER		Adapter Chicony Power A065RPB5P 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25 A Black TCO10, PCR50%,with LOGO and paper sleeve
		Adapter LITE-ON PA-1650-58A8 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25 A Black TCO10, PCR50%,with LOGO and paper sleeve
BATTERY		Battery PANASONIC Typ.53Wh 4590mAh 3S1P AP23A5L 248x84.4x5.5(mm) AP23A 11.55V 70W Polymer (production by PECSZ)
		Battery CosMx Typ.53Wh 4661mAh 3S1P AP23ABL 248x84.4x5.5(mm) AP23A 11.37V 65W Li-Ion TI BQ40Z555 FW5.12
BOARD		BOARD LED
		BOARD IO
		BOARD IO W/VPRO
CABLES		CABLE IO BOARD

Table 1-10. FRU List (Continued)

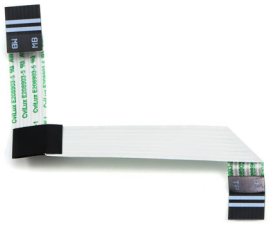
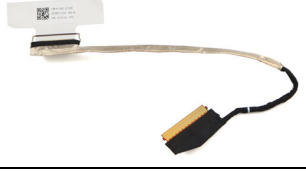
Category	Picture	Description
CABLES		CABLE FINGERPRINT
		CABLE TOUCHPAD
		CABLE LED BOARD
		CABLE LCD N14WUSUPILB
		CABLE LCD N14WUSSPIB
		CABLE CAMERA IR
		CABLE CAMERA
		CABLE CAMERA IR
CAMERA		Camera CHICONY FHD FF CKFKF31-1 OV2740 SPCA2093N 1L4C066F2 (w/BG) ZTS6735 USB 3.2T TNR
		Camera CHICONY FHD FF CKFNE34 OV2740 RTS5861 1L4C066F2(BG) ZTS6234A USB IR-HM1092(940nm)

Table 1-10. FRU List (Continued)

Category	Picture	Description
FAN		FAN
HDD		Flash Disk WD SSD NAND 1024GB SN5000S SDEQNSJ-1T00-1014 LF+HF
		Flash Disk WD SSD NAND 512GB SN5000S SDEQNSJ-512G-1014 LF+HF
		Flash Disk APACER SSD NAND 256GB 3D TLC AP2JPB4480E-O301 LF+HF
		Flash Disk KINGSTON SSD NAND 256GB OM8PGP4256Q-AA LF+HF
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Arabic NK.I1313.3BT/NK.I1317.0VM
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS FR/Arabic NK.I1313.3CA/NK.I1317.0W4
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Belgium NK.I1313.3C6/NK.I1317.0W0
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Brazilian Portuguese NK.I1313.3C7/NK.I1317.0W1
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS US International w/ Bulgaria NK.I1313.3C4/NK.I1317.0VY
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS US International w/ Canadian French NK.I1313.3C3/NK.I1317.0VX

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS SLO/CRO NK.I1313.3CJ/NK.I1317.0WC
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS CZ/SK NK.I1313.3C8/NK.I1317.0W2
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Danish NK.I1313.3C9/NK.I1317.0W3
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS French NK.I1313.3CB/NK.I1317.0W5
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS German NK.I1313.3CC/NK.I1317.0W6
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Greek NK.I1313.3BV/NK.I1317.0VP
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS US International w/ Hebrew NK.I1313.3C2/NK.I1317.0VW
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Hungarian NK.I1313.3CD/NK.I1317.0W7
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Persian NK.I1313.3BZ/NK.I1317.0VT
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Italian NK.I1313.3CE/NK.I1317.0W8
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 84KS Japanese NK.I1313.3CQ

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Korean NK.I1313.3BW/NK.I1317.0VQ
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS ALA-Spanish NK.I1313.3C5/NK.I1317.0VZ
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Norwegian NK.I1313.3CG/NK.I1317.0WA
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Portuguese NK.I1313.3CH/NK.I1317.0WB
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Russian NK.I1313.3BX/NK.I1317.0VR
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Nordic NK.I1313.3CF/NK.I1317.0W9
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Spanish NK.I1313.3CK/NK.I1317.0WD
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Sweden NK.I1313.3CL/NK.I1317.0WE
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Swiss/G NK.I1313.3CM/NK.I1317.0WF
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Thailand NK.I1313.3C0/NK.I1317.0VU
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS Turkish NK.I1313.3CN/NK.I1317.0WG

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Traditional Chinese NK.I1313.3BU/NK.I1317.0VN
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS US International NK.I1313.3C1/NK.I1317.0VV
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 81KS UK NK.I1313.3CP/NK.I1317.0WH
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT NBL FOR 65W&70W Keyboard VP03T_B40B 80KS Ukrainian NK.I1313.3BY/NK.I1317.0VS
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Arabic NK.I1313.32V
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS FR/Arabic NK.I1313.33C
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Belgium NK.I1313.338
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Brazilian Portuguese NK.I1313.339
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS US International w/ Bulgaria NK.I1313.336
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS US International w/ Canadian French NK.I1313.335

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS SLO/CRO NK.I1313.33L
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS CZ/SK NK.I1313.33A
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Danish NK.I1313.33B
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS French NK.I1313.33D
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS German NK.I1313.33E
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Greek NK.I1313.32X
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS US International w/ Hebrew NK.I1313.334
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Hungarian NK.I1313.33F
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Persian NK.I1313.331
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Italian NK.I1313.33G
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 84KS Japanese NK.I1313.33S

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Korean NK.I1313.32Y
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS ALA-Spanish NK.I1313.337
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Norwegian NK.I1313.33J
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Portuguese NK.I1313.33K
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Russian NK.I1313.32Z
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Nordic NK.I1313.33H
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Spanish NK.I1313.33M
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Sweden NK.I1313.33N
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Swiss/G NK.I1313.33P
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Thailand NK.I1313.332
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS Turkish NK.I1313.33Q

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Traditional Chinese NK.I1313.32W
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS US International NK.I1313.333
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 81KS UK NK.I1313.33R
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA NBL FOR 65W&70W Keyboard VP03T_B30B 80KS Ukrainian NK.I1313.330
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Arabic NK.I1313.3AV/NK.I1317.0UP
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS FR/Arabic NK.I1313.3BC/NK.I1317.0V6
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Belgium NK.I1313.3B8/NK.I1317.0V2
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Brazilian Portuguese NK.I1313.3B9/NK.I1317.0V3
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS US International w/ Bulgaria NK.I1313.3B6/NK.I1317.0V0
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS US International w/ Canadian French NK.I1313.3B5/NK.I1317.0UZ

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS SLO/CRO NK.I1313.3BL/NK.I1317.0VE
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS CZ/SK NK.I1313.3BA/NK.I1317.0V4
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Danish NK.I1313.3BB/NK.I1317.0V5
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS French NK.I1313.3BD/NK.I1317.0V7
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS German NK.I1313.3BE/NK.I1317.0V8
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Greek NK.I1313.3AX/NK.I1317.0UR
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS US International w/ Hebrew NK.I1313.3B4/NK.I1317.0UY
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Hungarian NK.I1313.3BF/NK.I1317.0V9
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Persian NK.I1313.3B1/NK.I1317.0UV
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Italian NK.I1313.3BG/NK.I1317.0VA

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 84KS Japanese NK.I1313.3BS
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Korean NK.I1313.3AY/NK.I1317.0US
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS ALA-Spanish NK.I1313.3B7/NK.I1317.0V1
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Norwegian NK.I1313.3BJ/NK.I1317.0VC
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Portuguese NK.I1313.3BK/NK.I1317.0VD
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Russian NK.I1313.3AZ/NK.I1317.0UT
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Nordic NK.I1313.3BH/NK.I1317.0VB
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Spanish NK.I1313.3BM/NK.I1317.0VF
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Sweden NK.I1313.3BN/NK.I1317.0VG
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Swiss/G NK.I1313.3BP/NK.I1317.0VH

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Thailand NK.I1313.3B2/NK.I1317.0UW
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS Turkish NK.I1313.3BQ/NK.I1317.0VJ
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Traditional Chinese NK.I1313.3AW/NK.I1317.0UQ
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS US International NK.I1313.3B3/NK.I1317.0UX
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 81KS UK NK.I1313.3BR/NK.I1317.0VK
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA COPILOT BL FOR 65W&70W Keyboard VP03P_B40BWL 80KS Ukrainian NK.I1313.3B0/NK.I1317.0UU
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Arabic NK.I1313.31X
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS FR/Arabic NK.I1313.32E
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Belgium NK.I1313.32A
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Brazilian Portuguese NK.I1313.32B

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS US International w/ Bulgaria NK.I1313.328
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS US International w/ Canadian French NK.I1313.327
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS SLO/CRO NK.I1313.32N
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS CZ/SK NK.I1313.32C
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Danish NK.I1313.32D
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS French NK.I1313.32F
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS German NK.I1313.32G
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Greek NK.I1313.31Z
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS US International w/ Hebrew NK.I1313.326
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Hungarian NK.I1313.32H
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Persian NK.I1313.323

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Italian NK.I1313.32J
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 84KS Japanese NK.I1313.32U
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Korean NK.I1313.320
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS ALA-Spanish NK.I1313.329
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Norwegian NK.I1313.32L
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Portuguese NK.I1313.32M
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Russian NK.I1313.321
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Nordic NK.I1313.32K
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Spanish NK.I1313.32P
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Sweden NK.I1313.32Q
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Swiss/G NK.I1313.32R

Table 1-10. FRU List (Continued)

Category	Picture	Description
KEYBOARD ASSEMBLY		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Thailand NK.I1313.324
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS Turkish NK.I1313.32S
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Traditional Chinese NK.I1313.31Y
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS US International NK.I1313.325
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 81KS UK NK.I1313.32T
		KEYBOARD ASSY WIFI SKU W/ UPPER CASE ANTENNA BL FOR 65W&70W Keyboard VP03P_B30BWL 80KS Ukrainian NK.I1313.322
LCD		LED LCD Panel CSOT 14" WUXGA IPS None Glare MNE007QS3-7 V1.0 300nit NTSC 45% 60Hz 20ms 1000:1 (Narrow border, 3.0t)
		LED LCD Panel HKC 14" WUXGA IPS None Glare MB140DS01-7 Ver. 1.0 300nit NTSC 45% 60Hz 25ms 1200:1 (Narrow border, 3.0t)
		LED LCD Panel INNOLUX 14" WUXGA IPS None Glare N140JCA-ELL C1 300nit NTSC 45% 60Hz 25ms 1000:1 (Narrow border, 3.0t)
		LED LCD Panel AUO 14" WUXGA IPS None Glare B140UAN02.0 H/W 2A 400nit sRGB 100% 60Hz 25ms 1200:1 (Narrow border, 2.4t)

Table 1-10. FRU List (Continued)

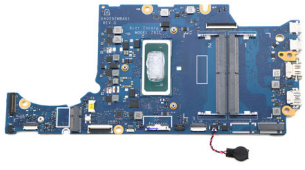
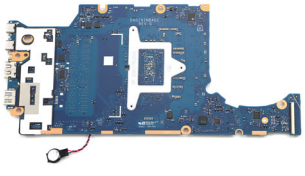
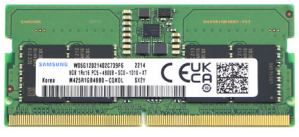
Category	Picture	Description
LCD BEZEL		LCD BEZEL
		LCD BEZEL IR
LCD COVER		LCD COVER N14WUSUPILB
		LCD COVER N14WUSSPIB
LOWER CASE		LOWER CASE FOR 65W&70W
MAINBOARD	 	Mainboard TMP214-76-G2-TCO CU5125H UMA w/TPM
		Mainboard TMP214-76-G2-TCO CU7155H UMA w/TPM
		Mainboard TMP214-56-G2-TCO CU5225U UMA w/TPM
		Mainboard TMP214-56-G2 CU7265U UMA w/TPM, vPRO
MEMORY		Memory MICRON SO-DIMM DDRV 5600 8GB MTC4C10163S1SC56BD1 LF+HF 1Rx16, 1b Y52K, D-die
		Memory SAMSUNG SO-DIMM DDRV 5600 16GB M425R2GA3EB0-CWM LF+HF 1bnm E-die
		Memory HYNIX SO-DIMM DDRV 5600 32GB HMCG88AGBSA LF+HF 1anm, A-die 2Rx8

Table 1-10. FRU List (Continued)

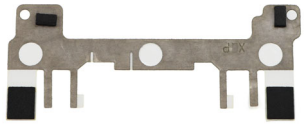
Category	Picture	Description
METAL		HINGE L
		HINGE R
		BRACKET MB
		BRACKET IO BOARD
MISCELLANEOUS		LCD ADHESIVE TAPE 180*6*0.4MM
		LCD ADHESIVE TAPE 180*6*0.4MM
		COND FABRIC W/MYLAR ASSY TP
		FOIL COMPOSITE W/ PAD
		AL FOIL W/INS MYLAR

Table 1-10. FRU List (Continued)

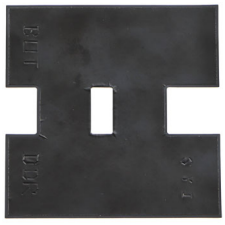
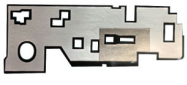
Category	Picture	Description
MISCELLANEOUS		ABSORBER W/MYLAR ASSY
		INSULATOR MYLAR ON BATTERY CABLE
		RUBBER FOR CAMERA
		RUBBER FOR LED BOARD
		MYLAR FFC COONECTOR
		ACETATE TAPE FOR BATTERY(21*21mm)
		ABSOR W/ALFOIL,INS MYLAR FOR MB
		ABSOR W/ALFOIL,INS MYLAR FOR IO BOARD
		RUBB SI FOR UPPERCASE
		LCD ALIGNMENT MYLAR

Table 1-10. FRU List (Continued)

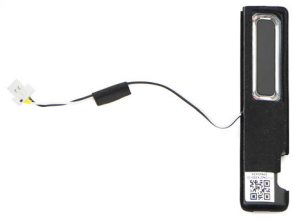
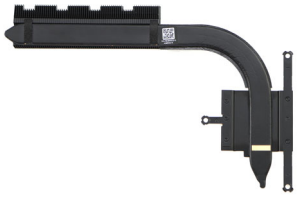
Category	Picture	Description
POWER CORD		POWER CORD 1M 125V JAP BLACK
		POWER CORD 1M 125V ARG BLACK
		POWER CORD 1M 125V AUS BLACK
		POWER CORD 1M 125V BRAZIL BLACK
		POWER CORD 1M 125V CHINA BLACK
		POWER CORD 1M 125V DENMARK BLACK
		POWER CORD 1M 125V INDIA BLACK
		POWER CORD 1M 125V ISRAEL BLACK
		POWER CORD 1M 125V ITL BLACK
		POWER CORD 1M 125V S.AFRICA BLACK
		POWER CORD 1M 125V SWISS BLACK
		POWER CORD 1M 125V EUR+KOR BLACK
		POWER CORD 1M 125V US BLACK
		POWER CORD 1M 125V UK BLACK
		POWER CORD 1M 125V TAIWAN BLACK
SPEAKER/ MICROPHONE		SPEAKER L
		SPEAKER R
THERMAL		HEAT SINK UMA

Table 1-10. FRU List (Continued)

Category	Picture	Description
TOUCHPAD		TOUCHPAD MODULE NC.24611.070
		TOUCHPAD MODULE NC.24611.08F
		TOUCHPAD MODULE W/ FINGER PRINT NC.24611.0CX
		TOUCHPAD MODULE W/ FINGER PRINT NC.24611.0BC
WIRELESS LAN		Wireless LAN Intel Wi-Fi 6E BT5.3 AX211.NGWG.NV Intel 2x2 M.2 2230 CNVi GFP2 No vPro
		Wireless LAN Intel Wi-Fi 6E BT5.2 AX211.NGWG Intel 2x2 M.2 2230 CNVi GFP2 vPro

Software Update

System BIOS & Driver Updates

Visit http://www.acer.com/support to discover the available system BIOS and Drivers for this product. After selecting the desired country/language, either enter the model name or product serial number, or select the product from the list of suggested models in order to get access to product-specific software and documentation.

To update the system BIOS:

- Download the desired system BIOS version from the website
- Unzip the downloaded file to your computer
- Double-click the extracted file in order to initiate the update process
- The update process itself is fully automated and its progress is visualized by means of a progress indicator
- A visual notification is shown when the update is complete

NOTE:
Upgrading the system BIOS incorrectly, or intermittence of the system BIOS update process could harm the product.

NOTE:
System BIOS upgrades or downgrades, if not performed by an Acer Service Center or authorized Service Partner, are at own risk.

To update Drivers:

Run Windows Update in order to get the latest drivers from Acer:

- Select the Start button
- Go to **Settings** > **Update & Security** > **Windows Update**
- Available Drivers will automatically be listed on the screen. Press **Download** to start the download of the respective driver
- Installation of the driver will start automatically once the download is completed

Software Recovery

This product has embedded software recovery tools which can be used to either perform a partial or full software recovery, but also to create a Factory Default recovery media.

For more information about the software recovery options, how to perform a software recovery or creating a Factory Default recovery media, please refer to the chapter "Recovery" which is available in the User Manual of the product.

NOTE:
In the event of not being able to create a Factory Default recovery media, it is possible to obtain a copy of the recovery media through Acer Customer Service (http://www.acer.com/support)

This is not a free of charge service.

Updating your software

Please visit http://go.acer.com/?id=17883

Personal Data Removal

Removing your personal data

There are three options to choose from:

- Option 1: Select **Start** > **Settings** > **Update & Security** > **Recovery**. Under **Reset this PC**, select **Get started**. Open **Recovery settings**.
- Option 2: Restart your PC to get to the sign-in screen, then press and hold down the **Shift key** while you select the **Power** icon > **Restart** in the lower-right corner of the screen. After your computer restarts, select **Troubleshoot** > **Reset this PC**.
- Option 3: Select **Start** , then press and hold down the **Shift key** while you select the **Power** icon > **Restart** to restart your computer into Recovery Mode. After your computer restarts, select **Troubleshoot** > **Reset this PC**.