

Swift 14 AI
SF14-11 / SF14-11T

Lifecycle Extension Guide

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Self-Repair

This product 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

Please refer to the chapter "[Disassembly Procedures](#)" for step by step disassembly instructions.

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 tools are required to perform maintenance on the notebook:

- Wrist grounding strap and conductive mat
- Flat screwdriver
- Philips screwdriver
- Pointed plastic pry or similar object
- Tweezers
- Torx screwdriver

WEEE Annex VII Component

These components are classified as requiring selective treatment:

- Battery Pack
- SSD Module
- USB Board
- Mainboard
- Touchpad
- LCD Module (Touch & Non-Touch SKU)

Getting Started

Perform the following prior to performing any maintenance procedures:

1. Place the system on a flat work surface.
2. Make sure the system is completely powered down.
 - a. If the device is in powered up mode, shut down the system normally.
 - b. If the device is in sleep mode, wait for the Home Screen to clear. Then, shut down normally.
3. Disconnect the AC Adapter and remove all cables from the system and its peripherals.

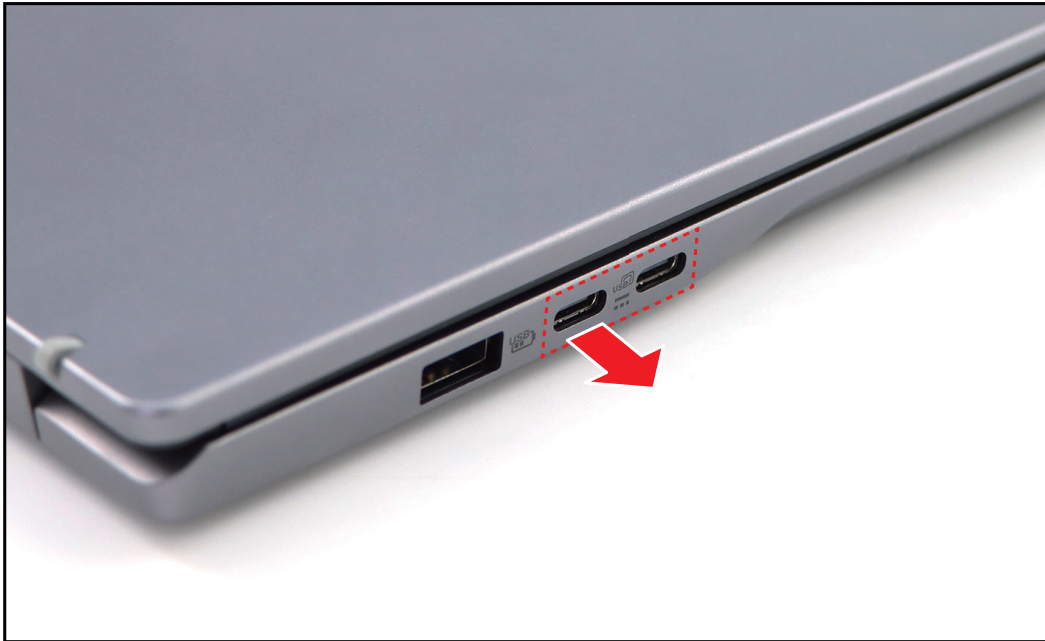


Figure 1-1. Disconnecting the Power Adapter

Lower Case Removal

1. Remove the ten (10) screws securing the lower case to the upper case.

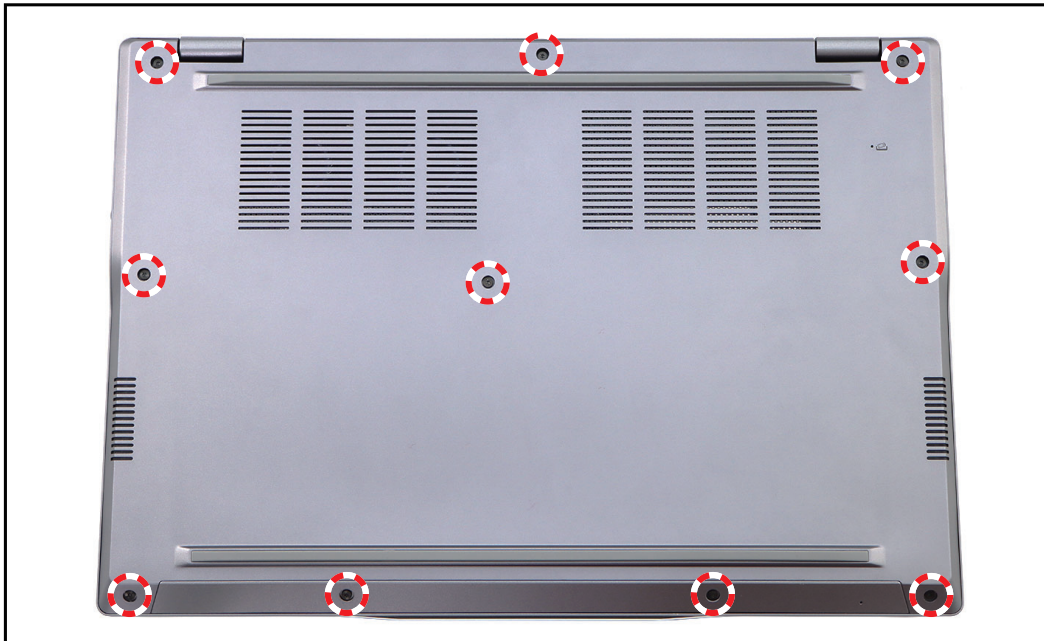


Figure 1-2. Removing the Screws

2. Starting from the bottom side, pry to release the left and right corner latches first, then release the remaining bottom side latches.

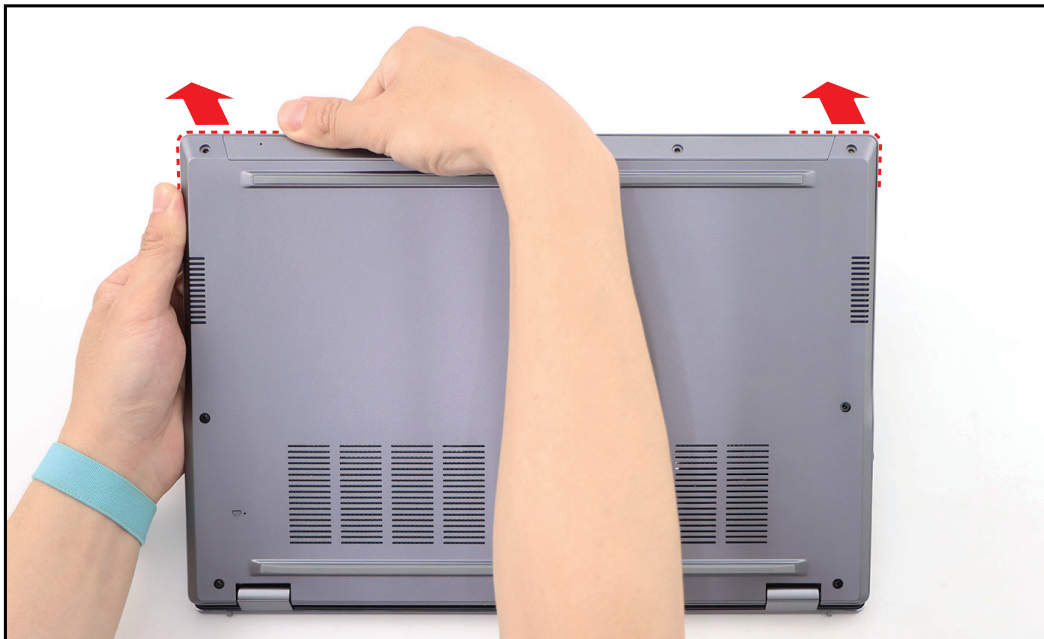


Figure 1-3. Releasing the Lower Case (1 of 2)

- Continue releasing the all the latches. Then remove the lower case.

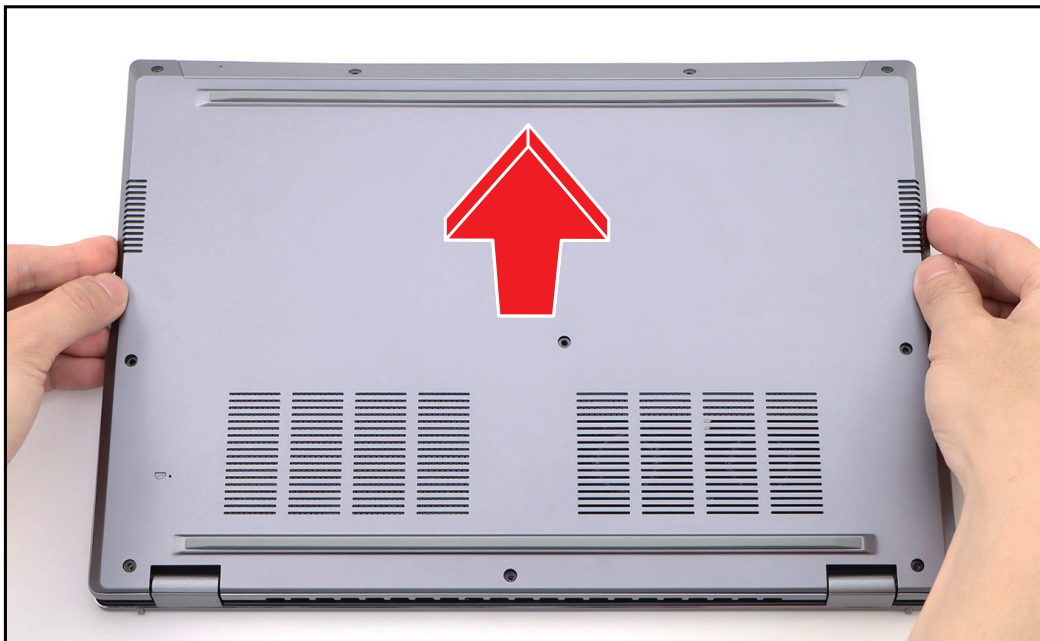


Figure 1-4. Removing the Lower Case (2 of 2)

- Detach the acetate tape from the battery cable connector.



Figure 1-5. Detaching the Acetate Tape

5. Disconnect the battery cable from the mainboard connector.

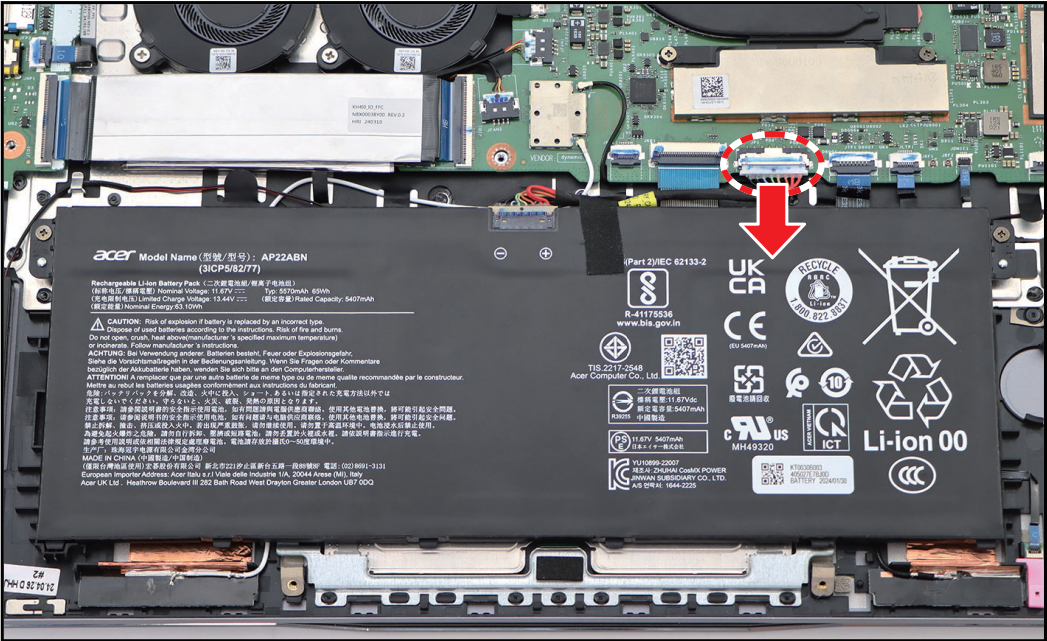


Figure 1-6. Disconnecting the Battery Cable

Table 1-1. Lower Case Screws

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 6.0 (torx)		2.0~2.5kgf.cm	10

Battery Removal

Prerequisite:

※ **Lower Case Removal** on page 1-5

1. Remove the two (2) screws securing the battery to the upper case.

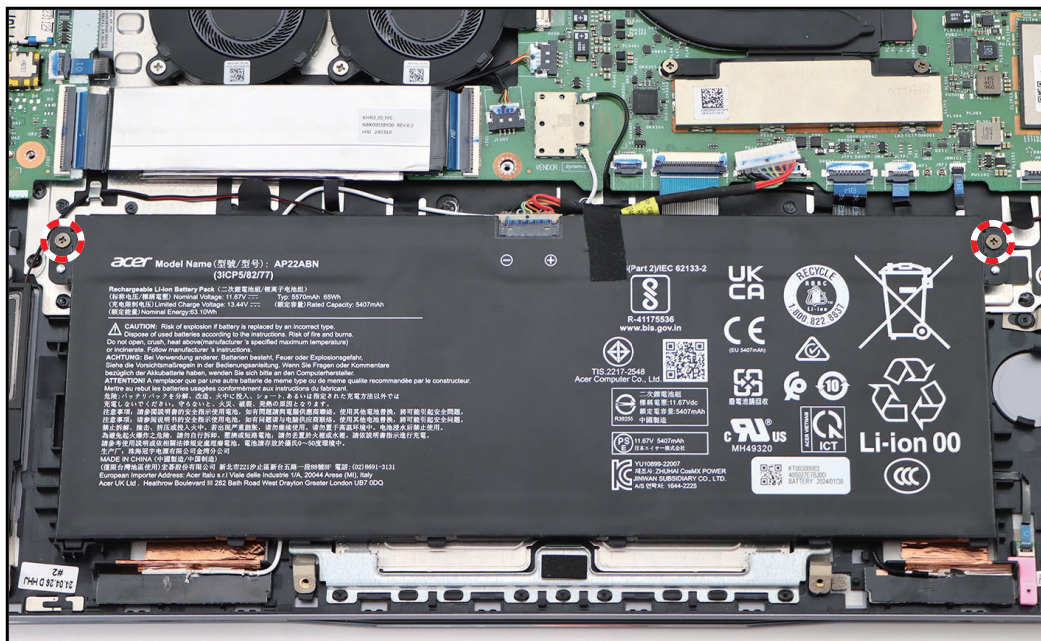


Figure 1-7. Removing the Screws

2. Lift the battery to release it from the guides (marked with white/red circles). Then remove the battery from the upper case.

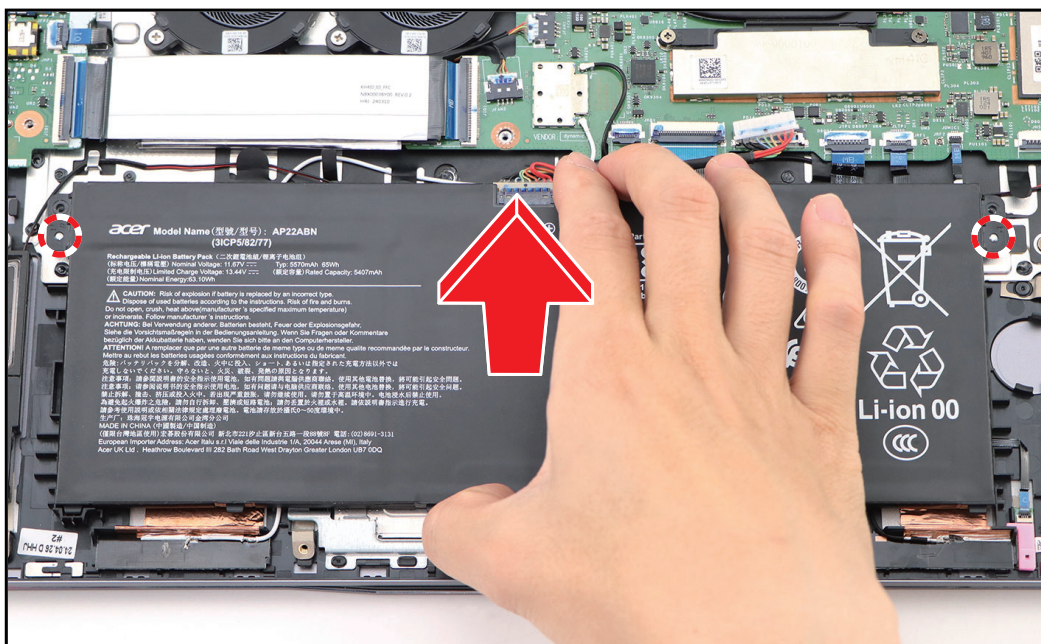


Figure 1-8. Removing the Battery

3. Detach the acetate tape from the battery cable and disconnect the battery cable from the battery connector.

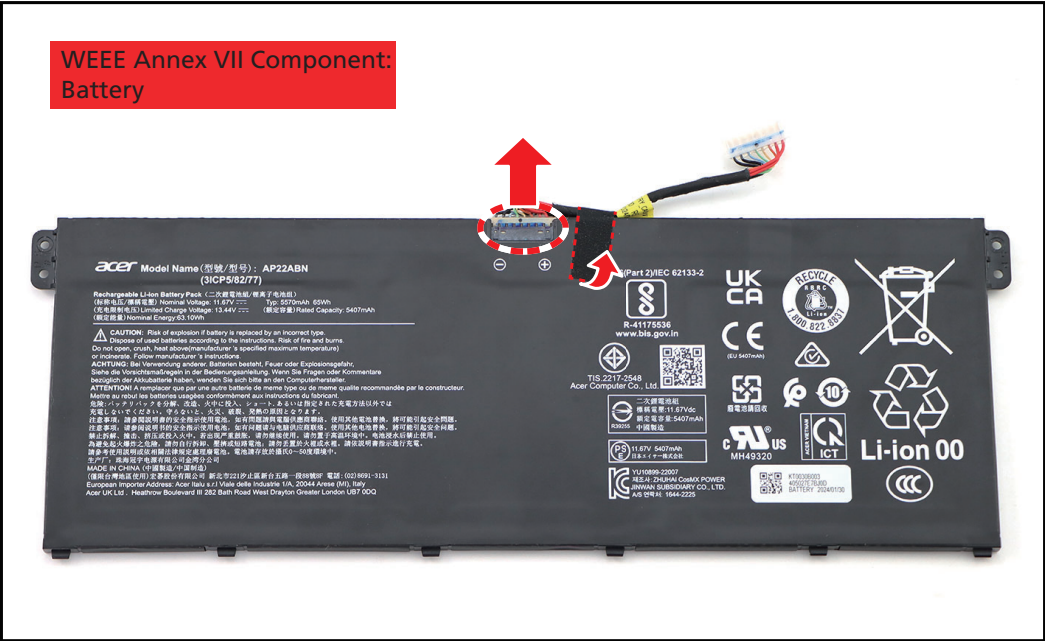


Figure 1-9. Disconnecting the Battery Cable

Table 1-2. Battery Screws

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 4.0		1.8~2.2kgf.cm	2

SSD Module Removal

Prerequisite:

※ [Lower Case Removal](#) on page 1-5

1. Release the latches and disconnect the USB board FFC from the USB board and mainboard connectors.

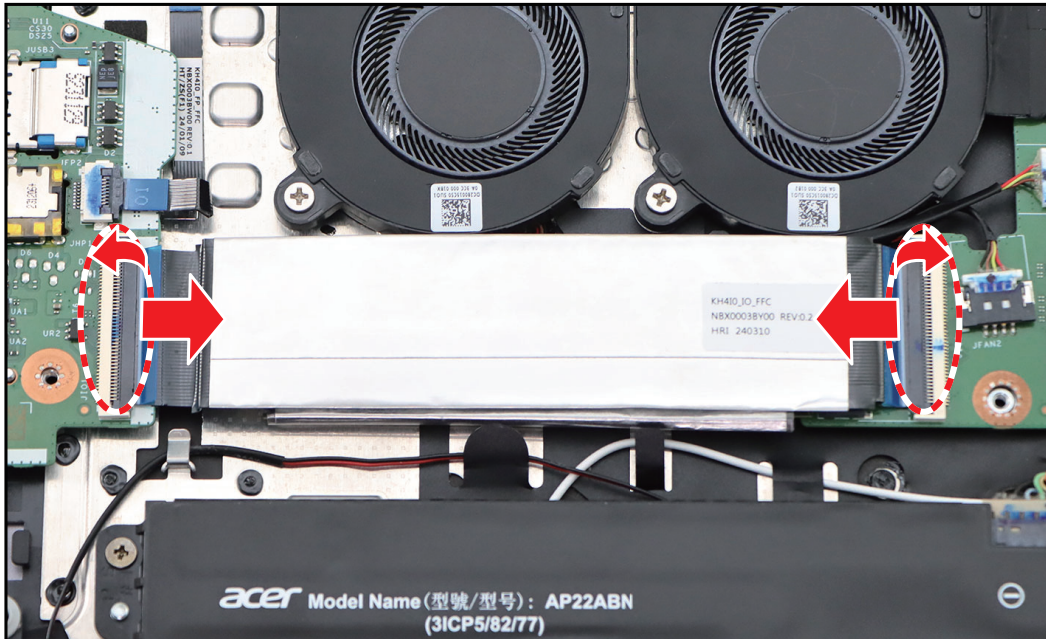


Figure 1-10. Disconnecting the USB Board FFC

2. Remove the screw securing the SSD module to the upper case.



Figure 1-11. Removing the Screw

3. Pull to disconnect the SSD module from the mainboard connector. Then remove the SSD module.

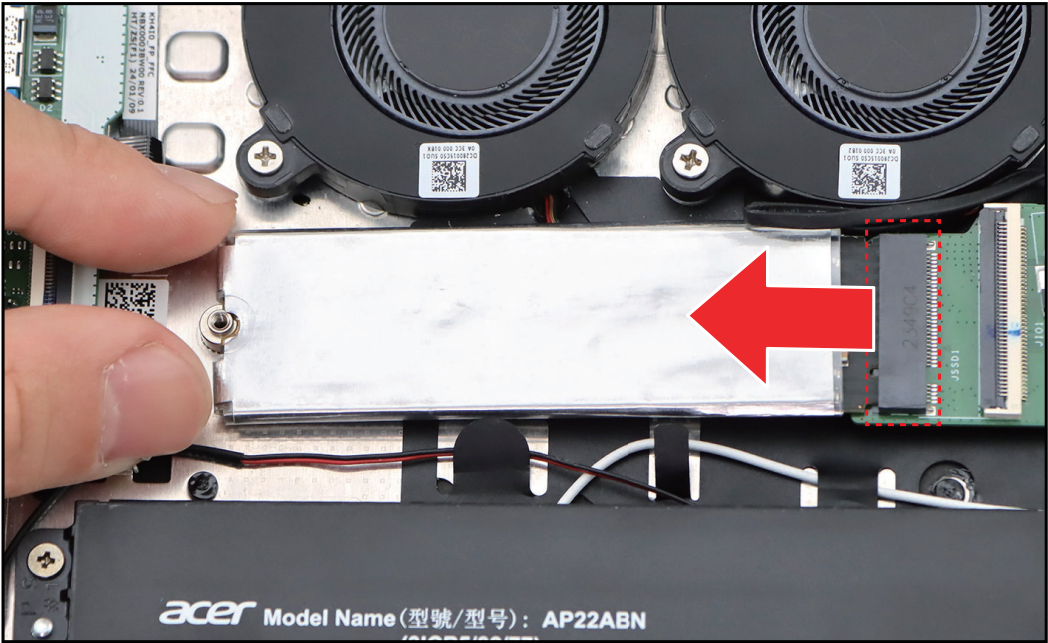


Figure 1-12. Removing the SSD Module

4. Remove the SSD foil shielding from the SSD 1 module.

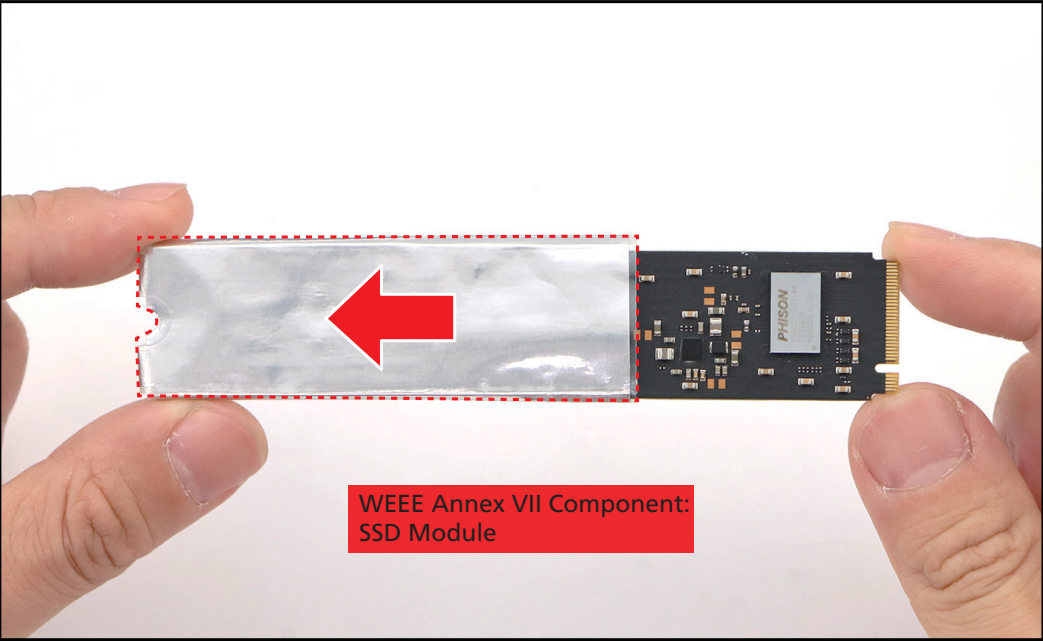


Figure 1-13. Removing the SSD Foil Shielding

Table 1-3. SSD Module Screw

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 2.5		1.8~2.2kgf.cm	1

USB Board Removal

Prerequisite:

※ **Lower Case Removal** on page 1-5

1. Release the latches and disconnect the USB board FFC (A) from the USB board and mainboard connectors.
2. Release the latch and disconnect the fingerprint FFC from the USB board connector (B).

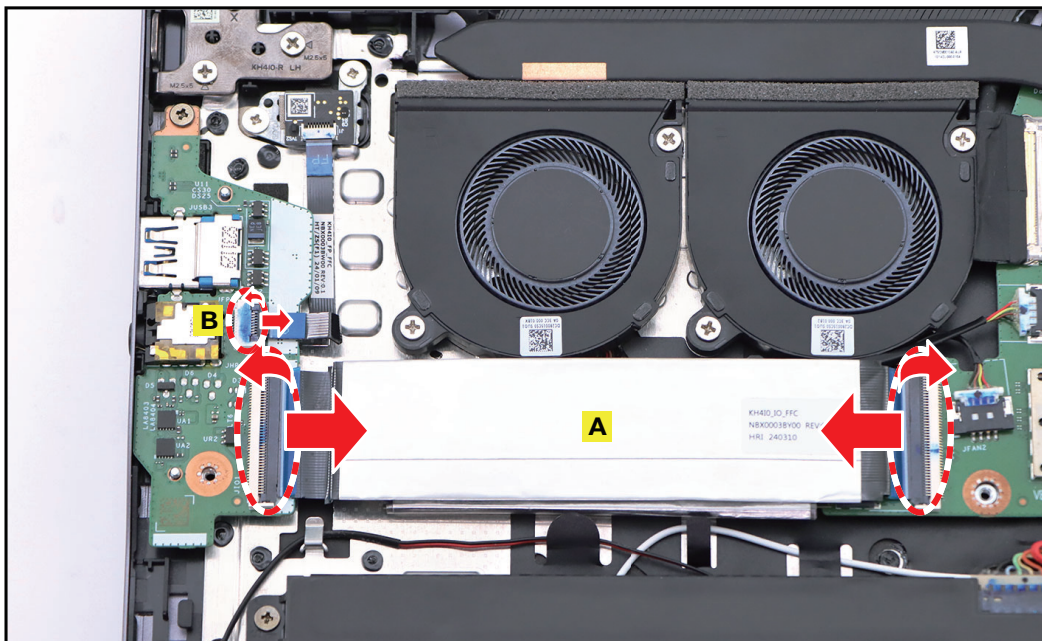


Figure 1-14. Detaching the Cables

3. Remove the screw securing the USB board to the upper case.

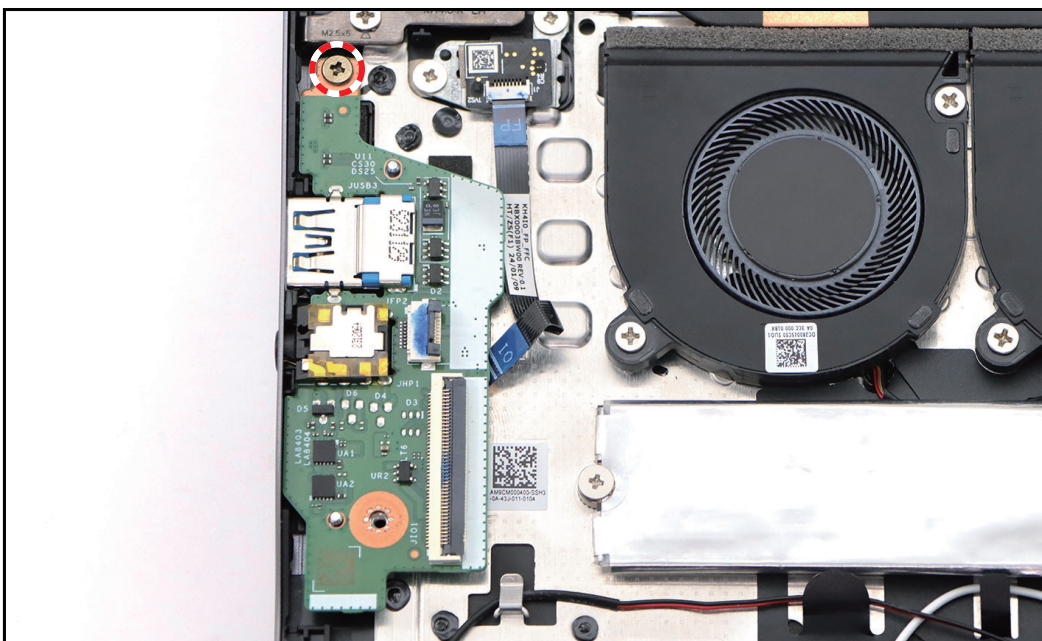


Figure 1-15. Removing the Screw

4. Slightly lift to release the USB board from the guides and slide to release its connectors from the I/O slots. Then remove the USB board.

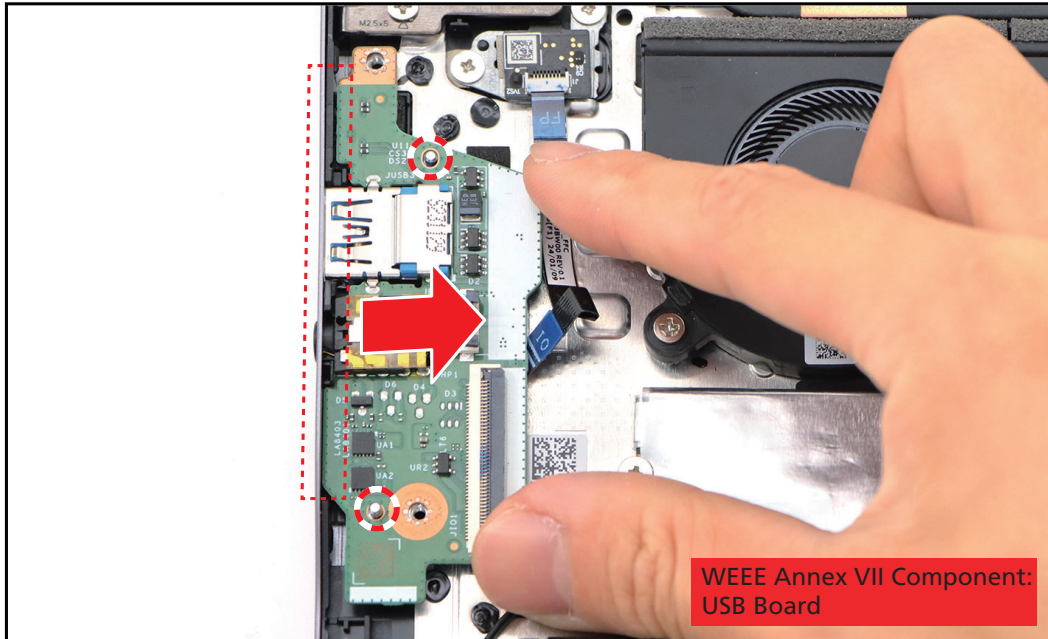


Figure 1-16. Removing the USB Board

Table 1-4. USB Board Screw

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 4.0		1.8~2.2kgf.cm	1

Touchpad Removal

Prerequisite:

※ [Battery Removal](#) on page 1-8

1. Release the latch and disconnect the keyboard FPC from the mainboard connector.
2. Carefully detach the keyboard FPC from its membrane as marked with the red dashed line in the illustration below.

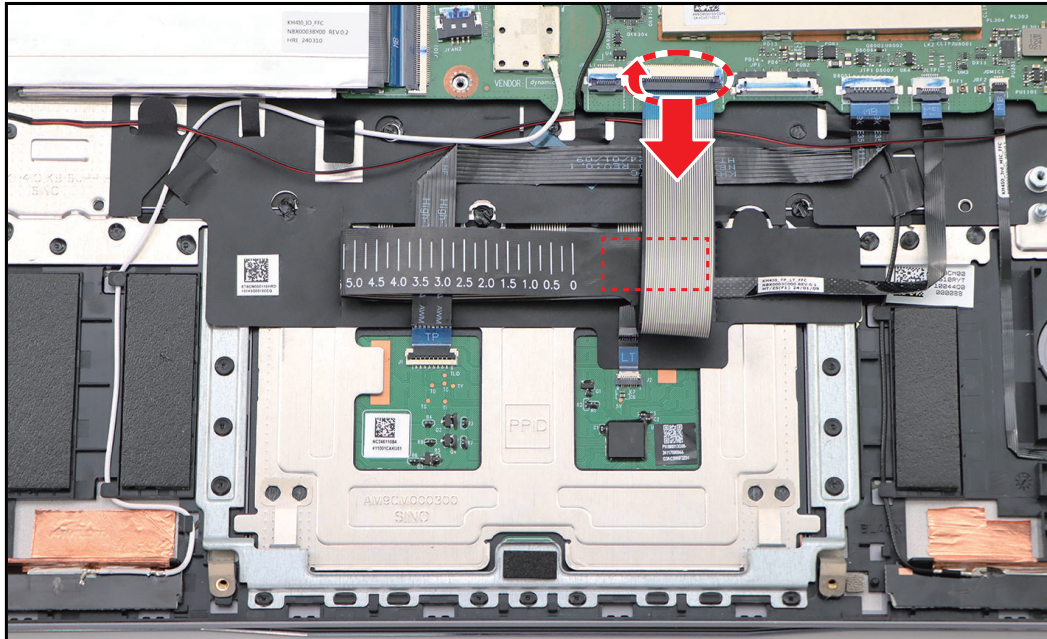


Figure 1-17. Disconnecting the Keyboard FPC

3. Release the latches and disconnect the touchpad FFC (A) from the touchpad and mainboard connectors. Then release the portions of the touchpad FFC from the upper case and remove it.
4. Release the latches and disconnect the touchpad lighting FFC (B) from the touchpad and mainboard connectors. Then release the portions of the touchpad lighting FFC from the upper case and remove it.

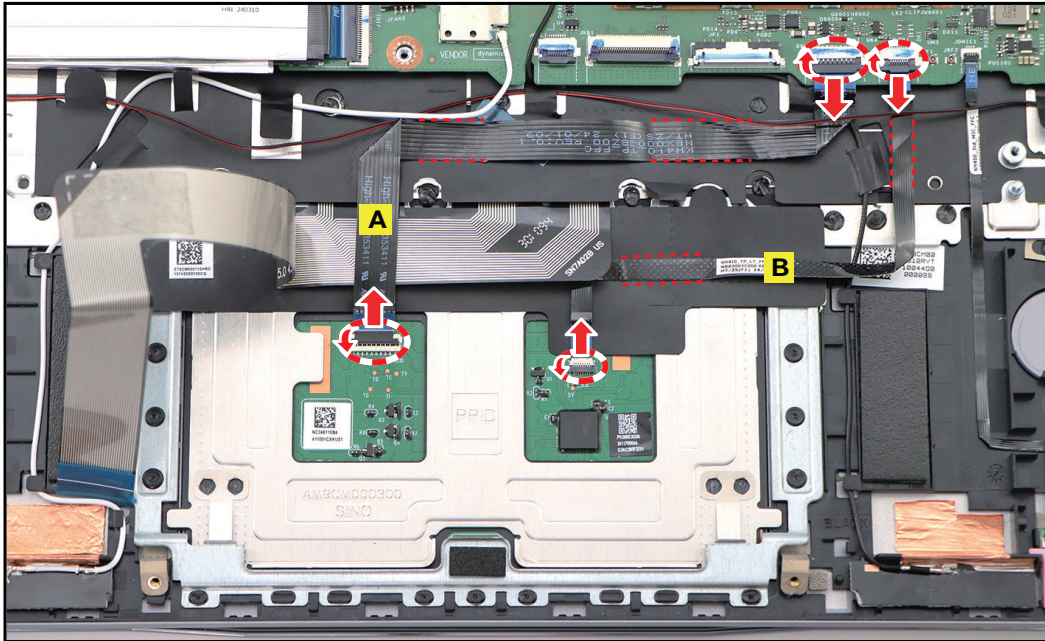


Figure 1-18. Removing the Cables

5. Release the mylar from the touchpad and upper case.

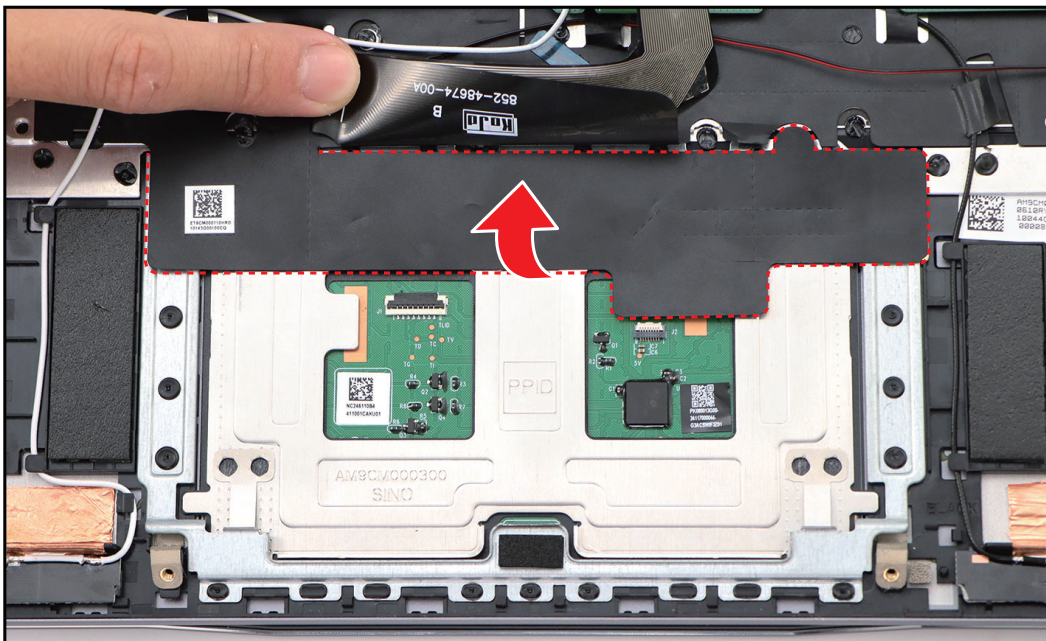


Figure 1-19. Releasing the Mylar

6. Remove the two (2) screws securing the touchpad to the upper case.

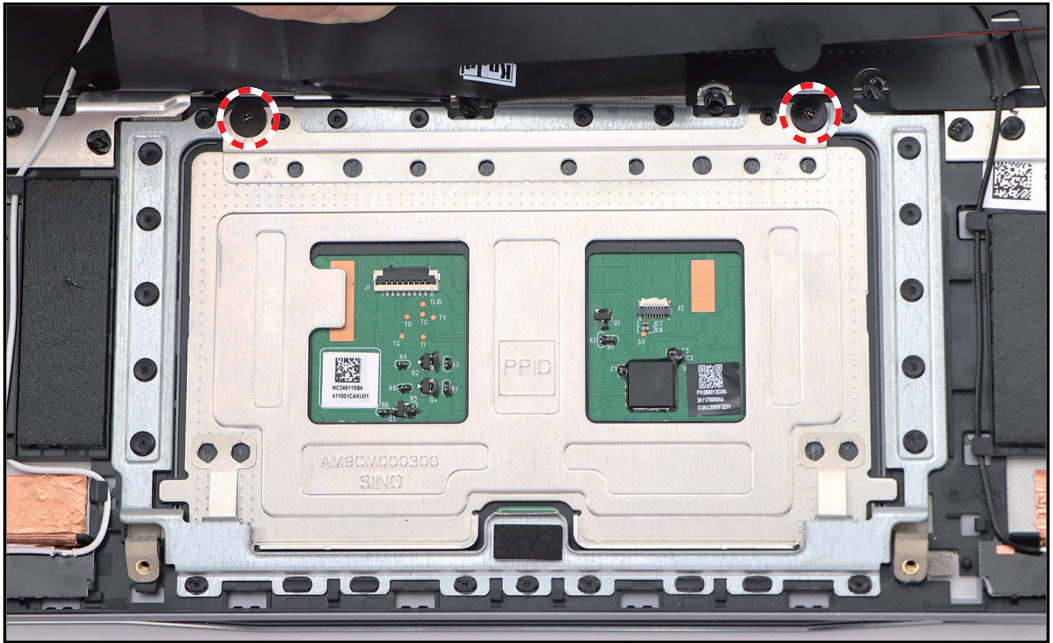


Figure 1-20. Removing the Screws

7. Slightly lift and then slide the bottom part of the touchpad forward to disengage it from the bottom tabs. Remove the touchpad from the upper case.

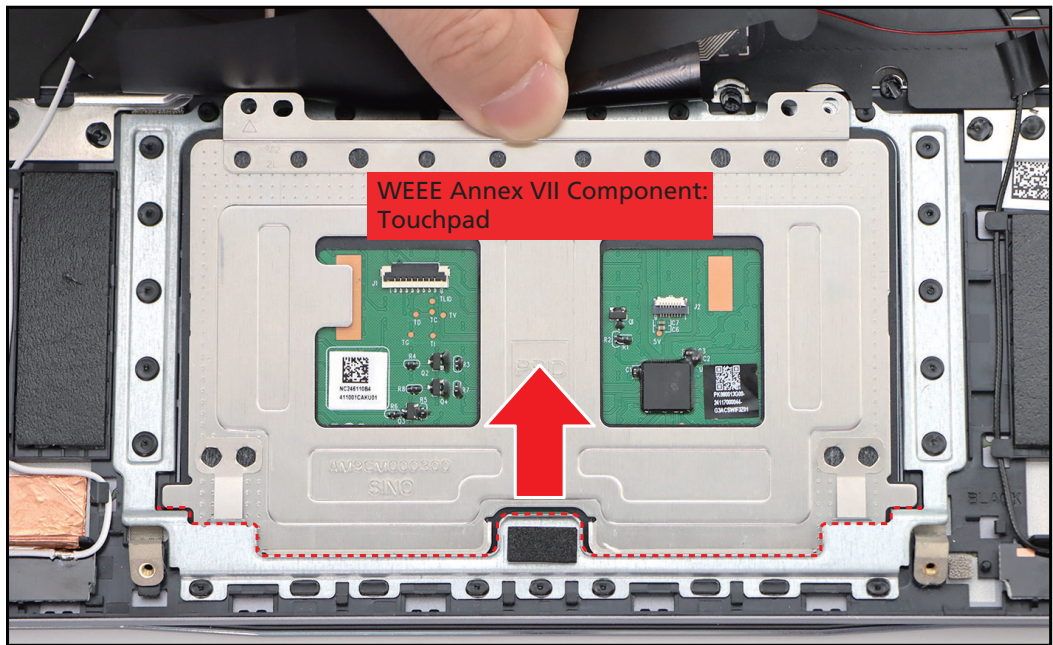


Figure 1-21. Removing the Touchpad

Table 1-5. Touchpad Screws

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 2.0		1.8~2.2kgf.cm	2

LCD Module Removal

Prerequisite:

※ Thermal Module Removal

1. Detach the mylar tab (A) from the eDP cable connector. Release the latch and disconnect the eDP cable from the mainboard connector. Then detach and unroute the eDP cable from the upper case.

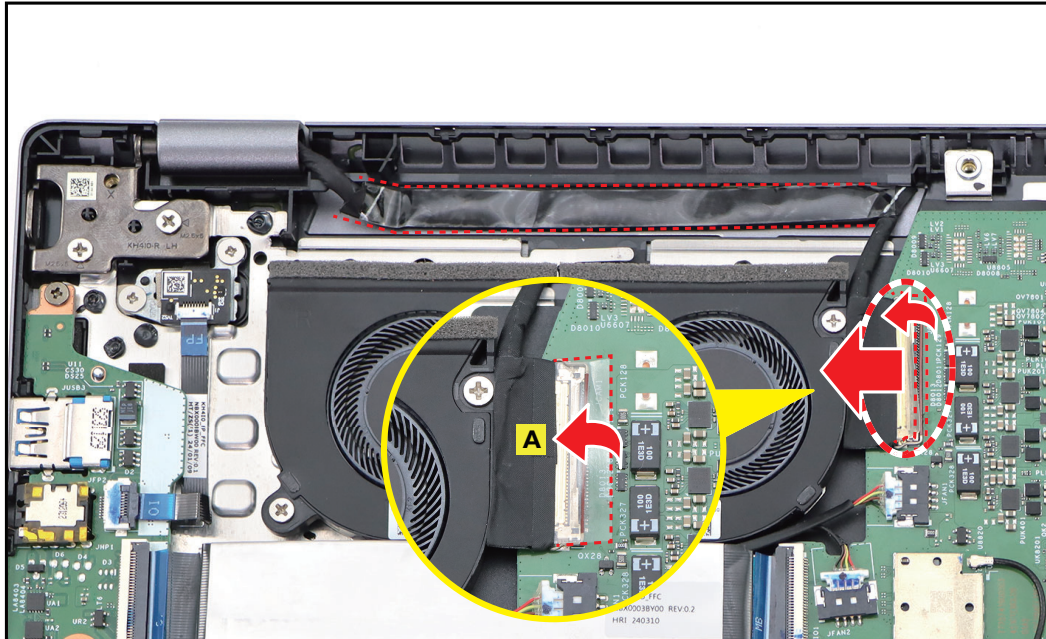


Figure 1-22. Disconnecting and Unrouting the eDP Cable

2. Release the latch (if necessary) and disconnect the eDP cable from the mainboard connectors.
3. Detach the cable adhesive from the mainboard.

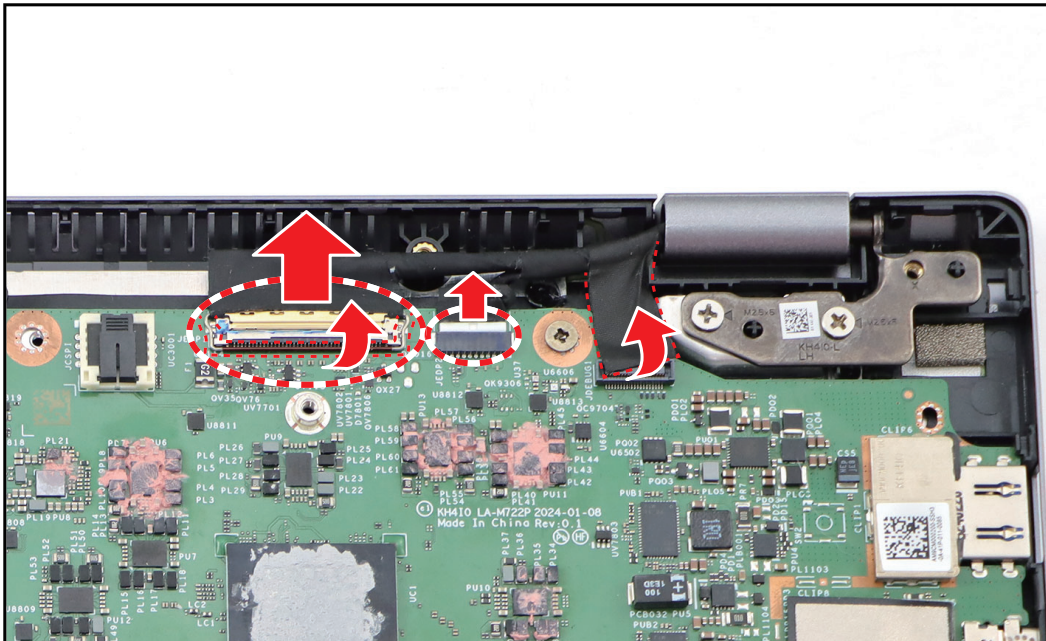


Figure 1-23. Removing the Screws

4. Remove the four (4) screws from the LCD hinges.

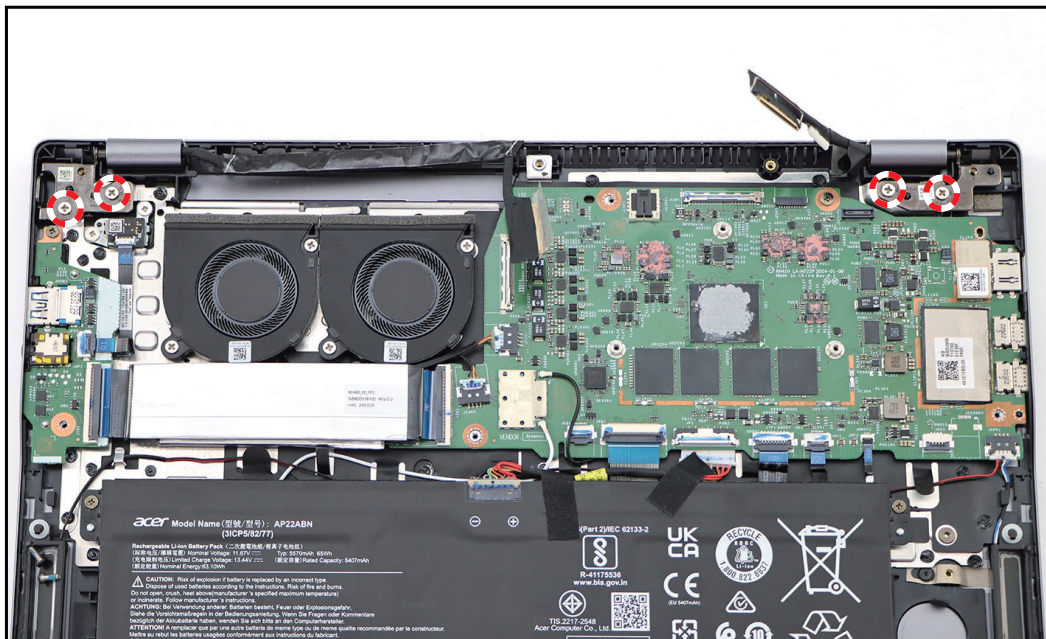


Figure 1-24. Removing the Screws

5. Open the upper case.

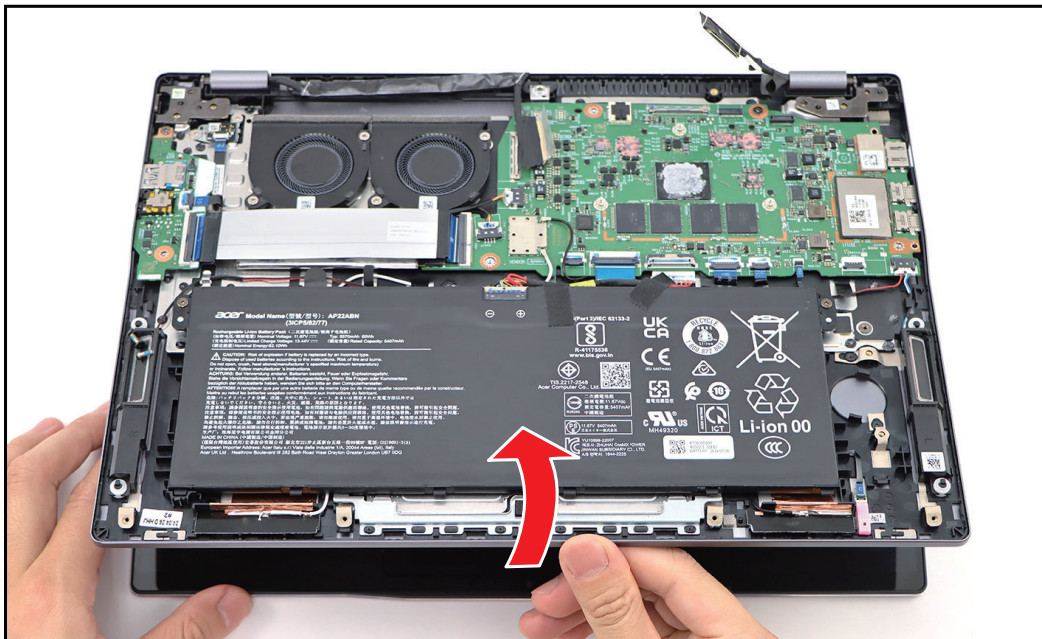


Figure 1-25. Opening the Upper Case

6. Close the upper case. Then lift both hinges until they are fully extended.

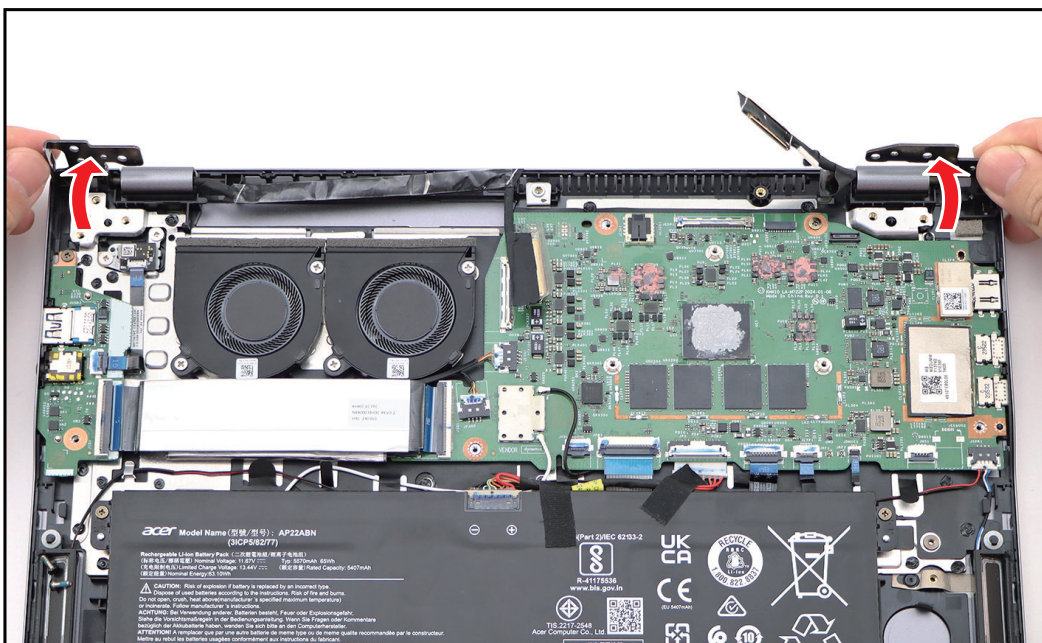


Figure 1-26. Extending the Hinges

7. Open the upper case again. Then remove the LCD module away from the upper case.



Figure 1-27. Removing the LCD Module

Table 1-6. LCD Hinge Screws

Screw Name	Screw Type	Torque	Quantity
M 2.5 x 5.0		2.65~3.45kgf.cm	4

Mainboard Removal

Prerequisite:

- ※ [Battery Removal](#) on page 1-8
- ※ Fan 2 Module Removal
- ※ Thermal Module Removal

1. Detach the mylar tab, release the latch, and then disconnect the eDP cable from the mainboard connector (A).
2. Detach the cable tape (B), release the latch (if necessary) and disconnect the eDP cable from the mainboard connectors (C & D).
3. Release the latch (if necessary) and disconnect the following cables from the mainboard connectors:
 - Main antenna cable (E)
 - Aux antenna cable (F)
 - Keyboard FPC (G)
 - Touchpad FFC (H)
 - Touchpad lighting FFC (I)
 - 3rd microphone FFC (J)
 - Speaker cable (K)

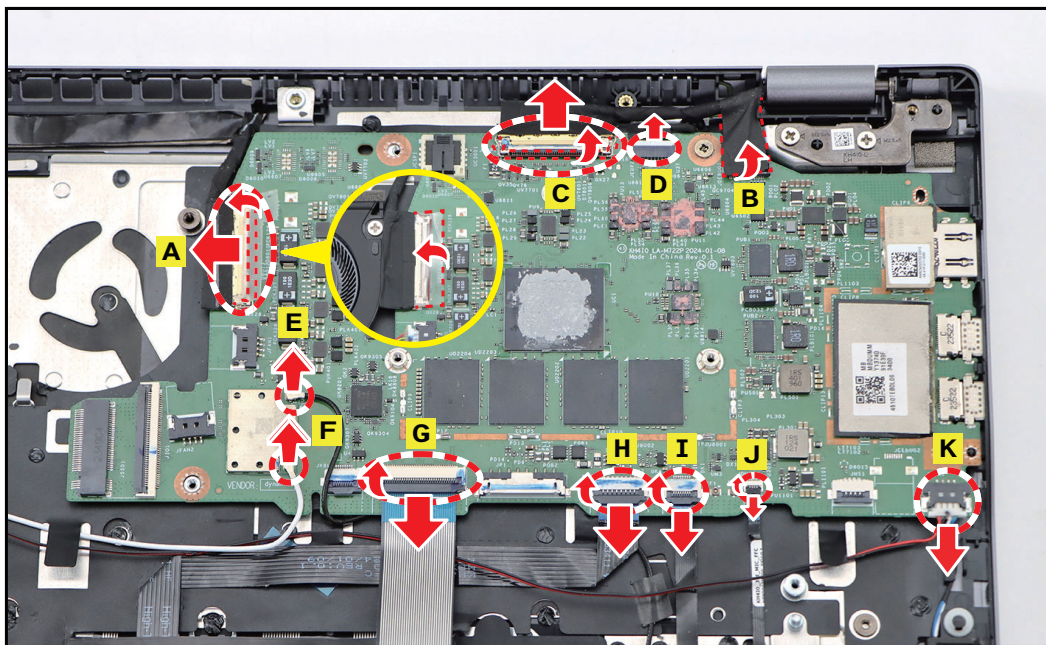


Figure 1-28. Disconnecting the Cables

4. Remove the screw securing the mainboard to the upper case.

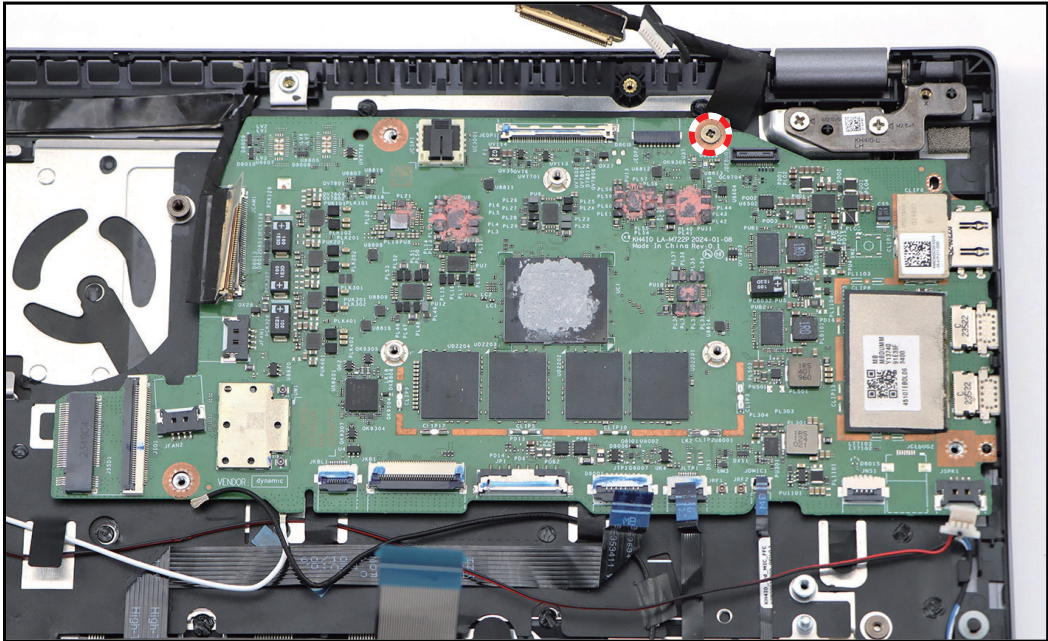


Figure 1-29. Removing the Screws

5. Release the mainboard from the I/O port slots and pin. Then remove the mainboard from the upper case.

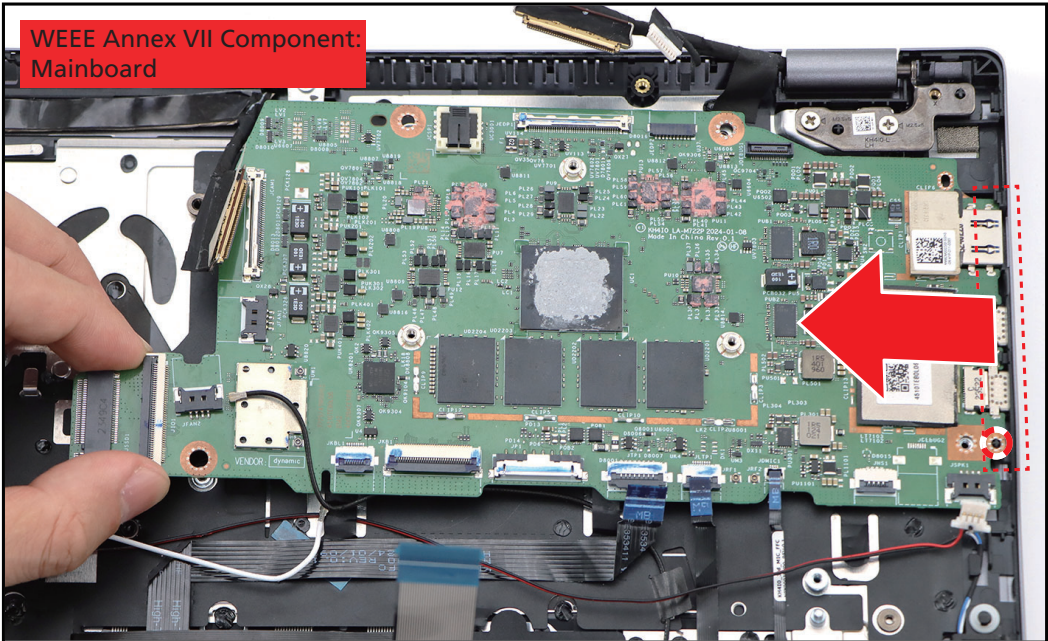


Figure 1-30. Removing the Mainboard

Table 1-7. Mainboard Screw

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 4.0		1.8~2.2kgf.cm	1

LCD Panel Removal (Touch SKU)

Prerequisite:

※ [LCD Module Removal](#) on page 1-17

1. Lift both LCD hinges until they are fully extended.

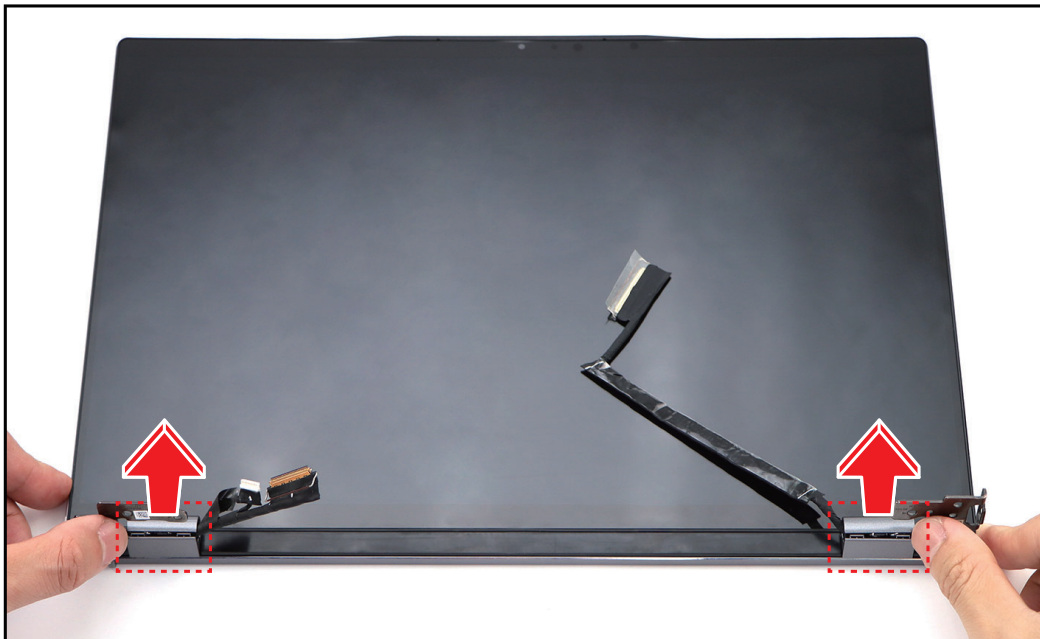


Figure 1-31. Lifting LCD Hinges

2. Pry underneath the strip bezel to release the latches.

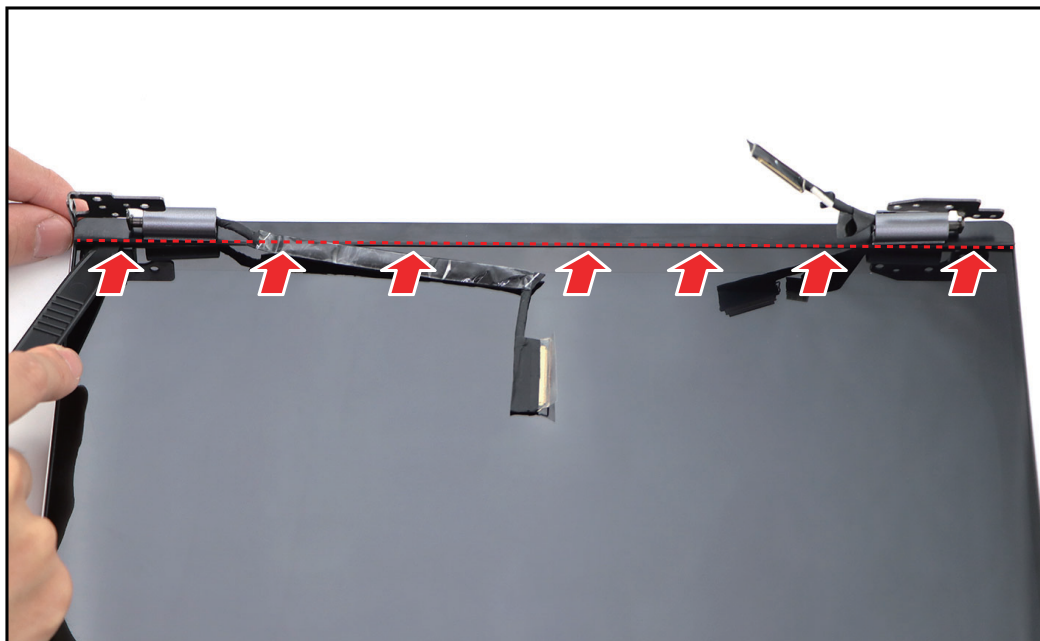


Figure 1-32. Releasing the Strip Bezel

3. Remove the strip bezel.



Figure 1-33. Removing the Strip Bezel

4. Remove the three (3) screws securing the LCD panel to the LCD cover.

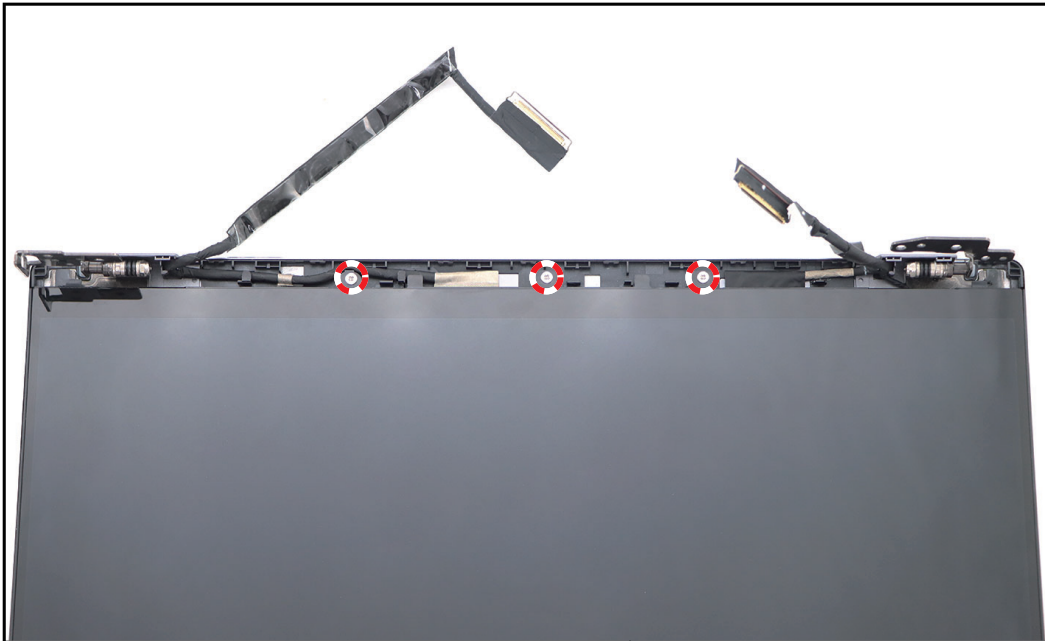


Figure 1-34. Removing the Screws

5. Unroute the LCD and eDP cables from the cable guides on the LCD cover.



Figure 1-35. Unrouting the Cables

6. Pry slightly to access the double-sided mounting tape underneath the LCD panel. Then carefully pull to detach the double-sided mounting tape. Repeat the same procedure to remove the double-sided mounting tape on remaining side of the LCD panel.

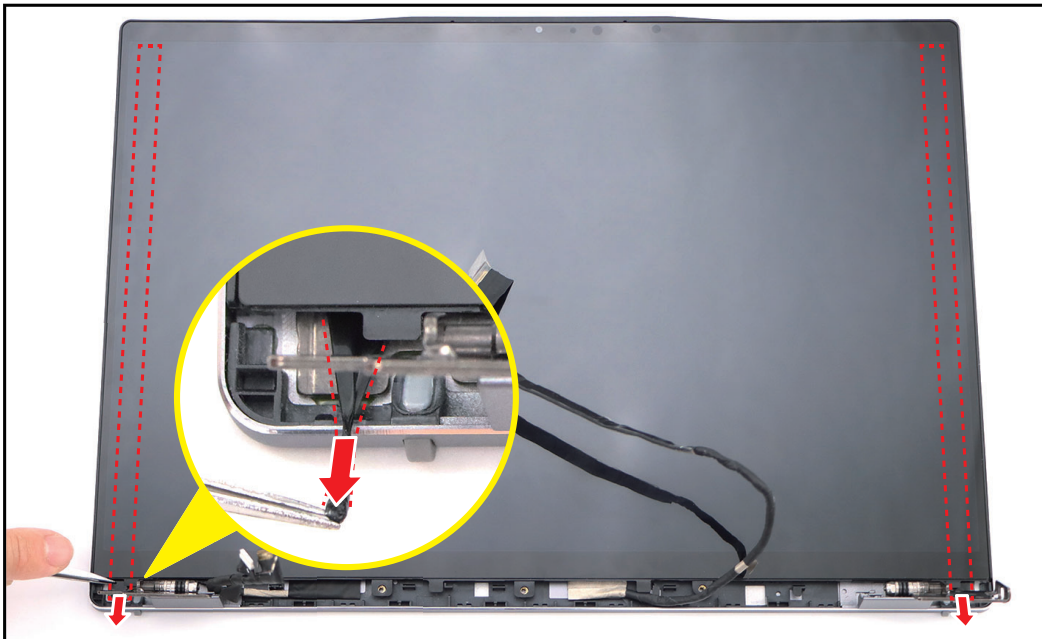


Figure 1-36. Detaching the Double-sided Mounting Tapes

7. Push the LCD panel forward to release the latches underneath the panel.

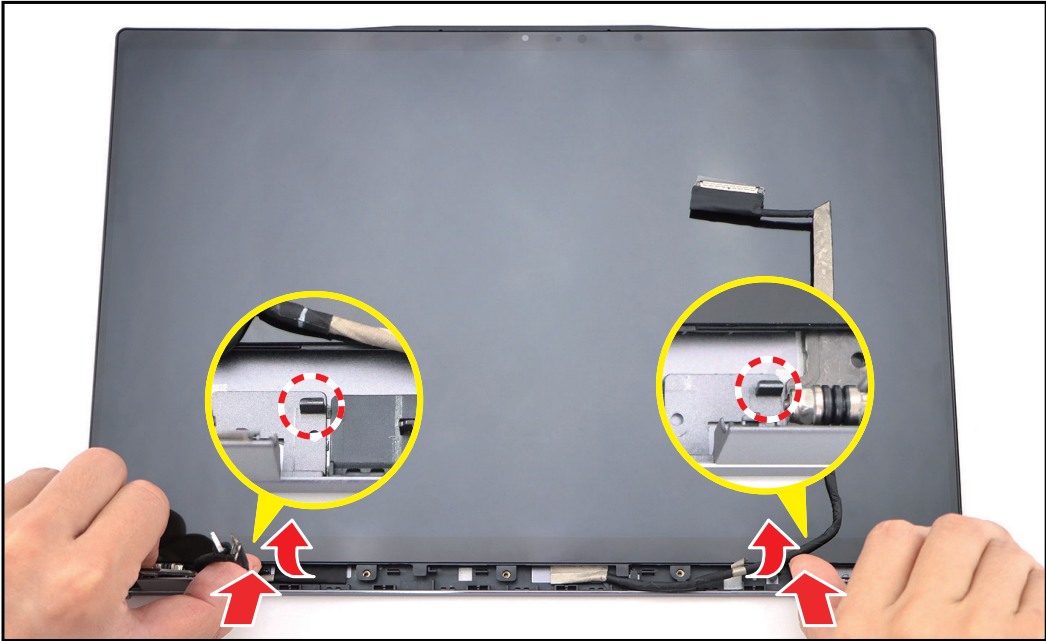


Figure 1-37. Releasing the LCD Panel

8. Lift to remove the LCD panel.



Figure 1-38. Remove the LCD Panel

Table 1-8. LCD Panel Screws

Screw Name	Screw Type	Torque	Quantity
M 2.0 x 3.0		1.8~2.2kgf.cm	3

LCD Bezel Removal (Non-Touch SKU)

Prerequisite:

※ [LCD Module Removal](#) on page 1-17

1. Lift both LCD hinges until they are fully extended.

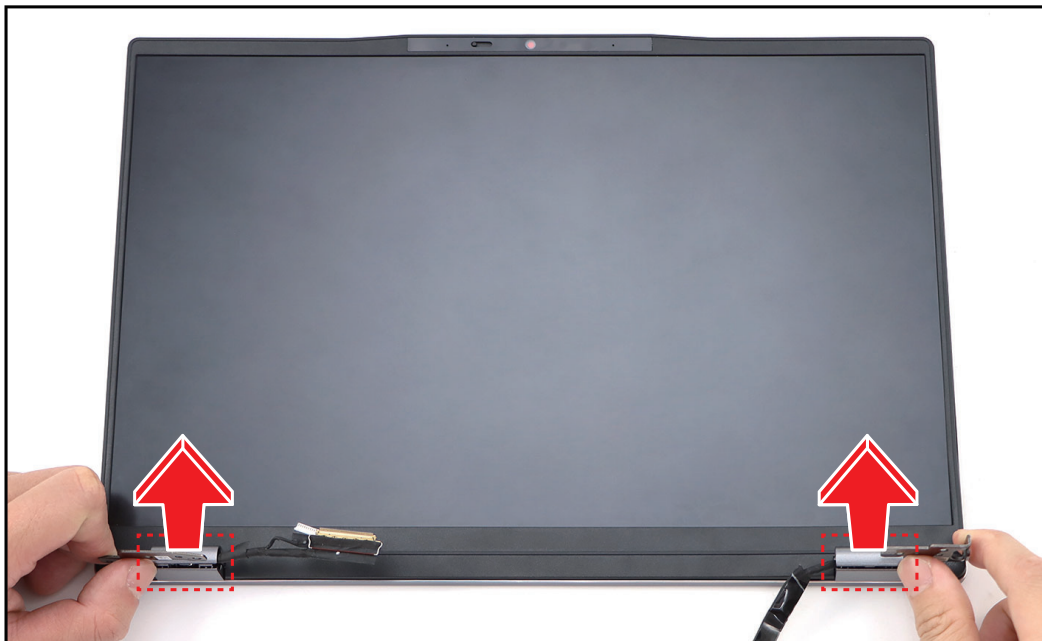


Figure 1-39. Lifting LCD Hinges

2. Pry the bottom side latches to release the LCD bezel.

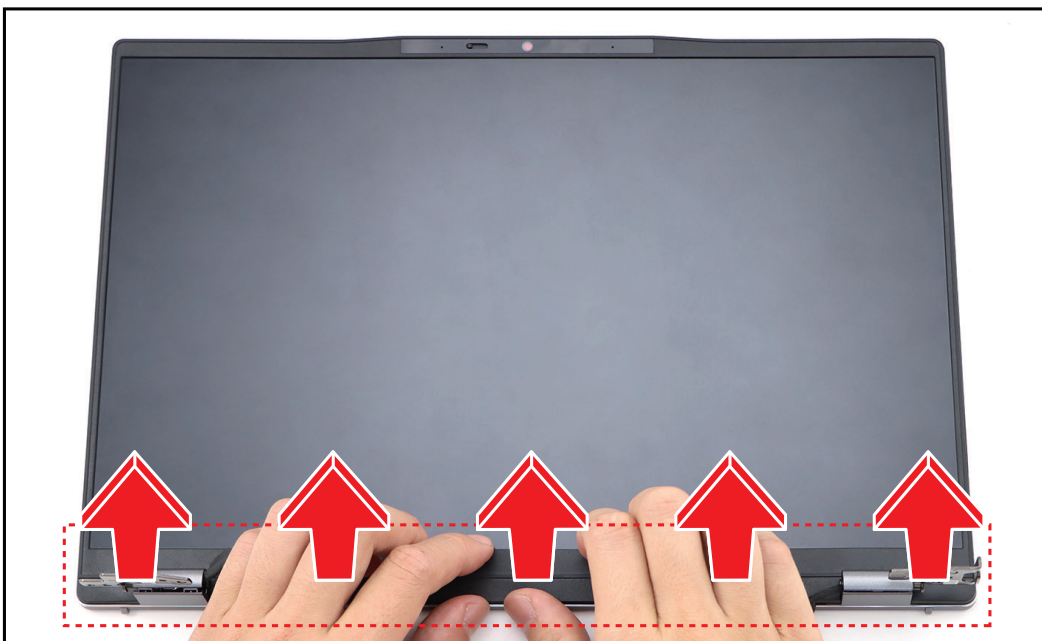


Figure 1-40. Removing the LCD Bezel (1 of 3)

3. Continue releasing the left and right side latches.



Figure 1-41. Removing the LCD Bezel (2 of 3)

4. Continue releasing the upper side latches and remove the LCD bezel.

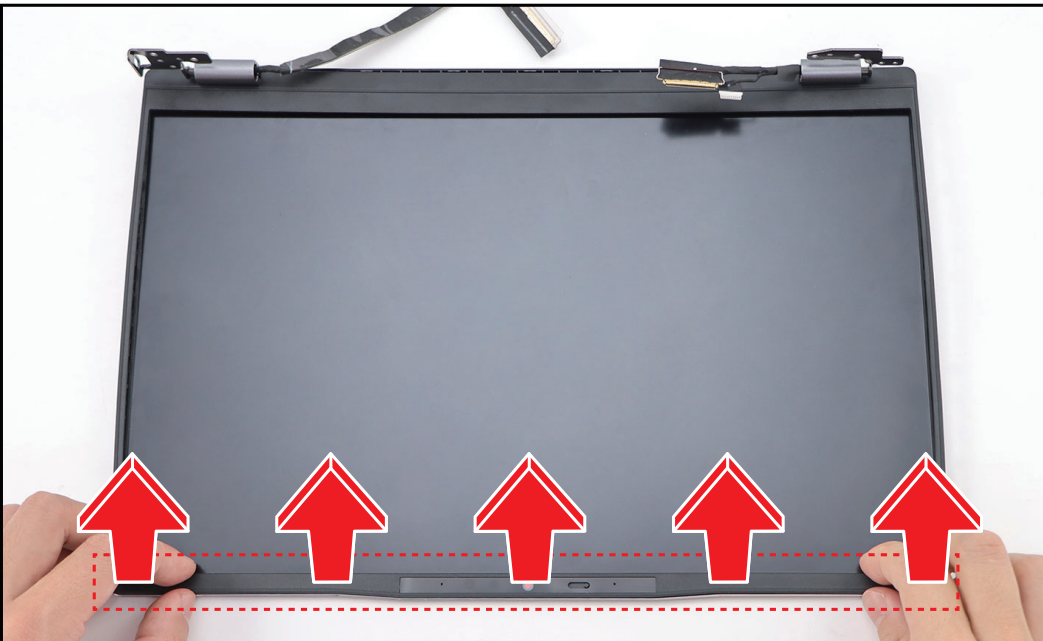


Figure 1-42. Removing the LCD Bezel (3 of 3)

LCD Panel Removal (Non-Touch SKU)

Prerequisite:

※ [LCD Bezel Removal \(Non-Touch SKU\)](#) on page [1-27](#)

1. Unroute the eDP cable from the cable guides on the LCD bezel.

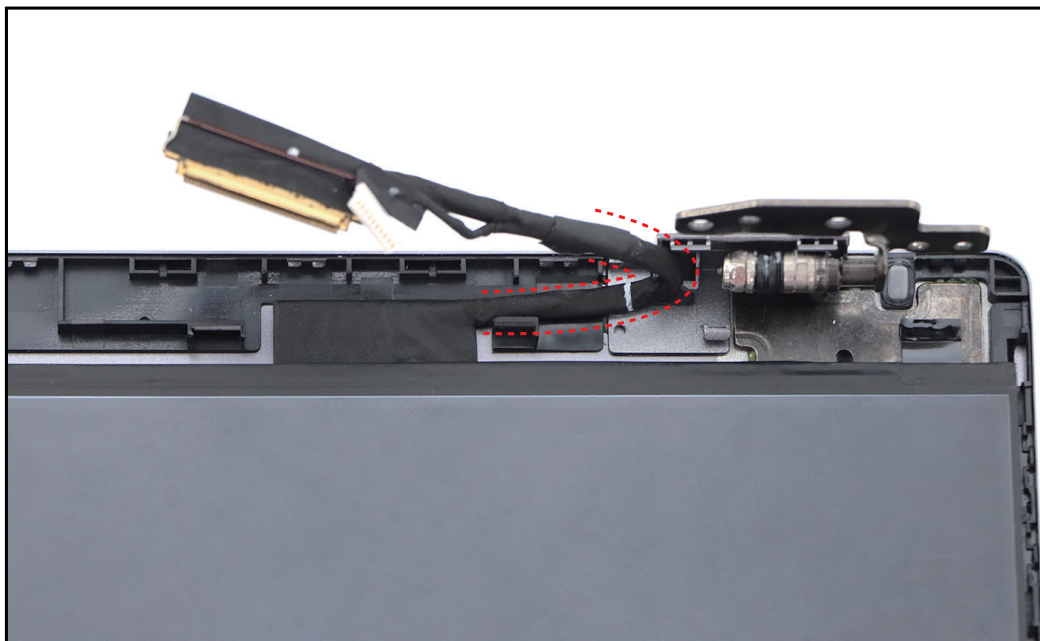


Figure 1-43. Unrouting the eDP Cable

2. Pry slightly to access the double-sided mounting tape underneath the LCD panel. Then carefully pull to detach the double-sided mounting tape. Repeat the same procedure to remove the double-sided mounting tape on another side of the LCD panel.

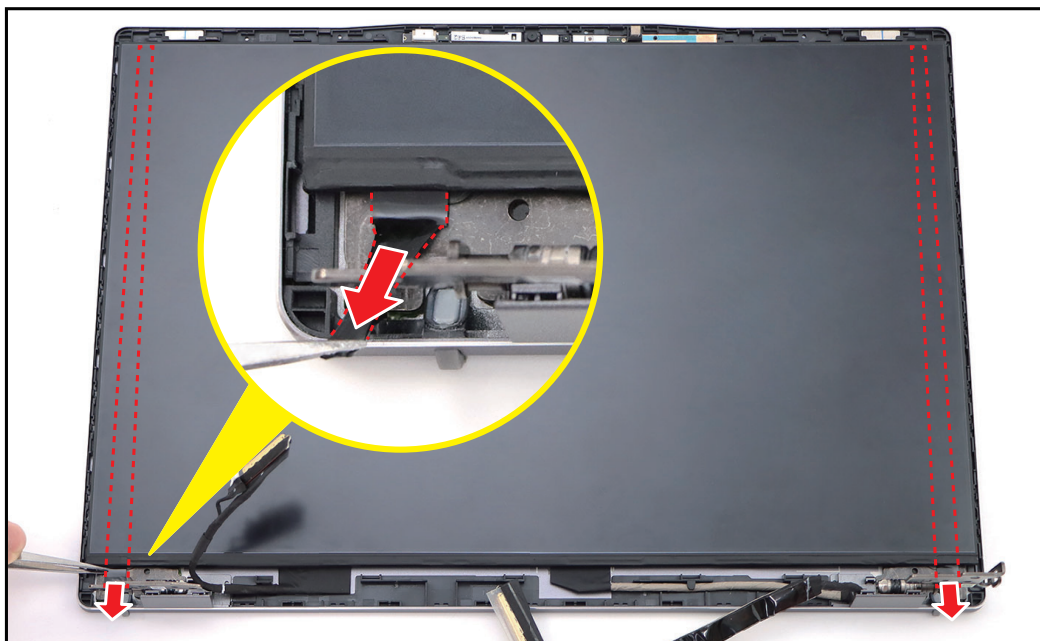


Figure 1-44. Detaching the Double-sided Mounting Tapes

3. Carefully flip the LCD panel and detach the mylar securing the eDP cable to the LCD panel connector.

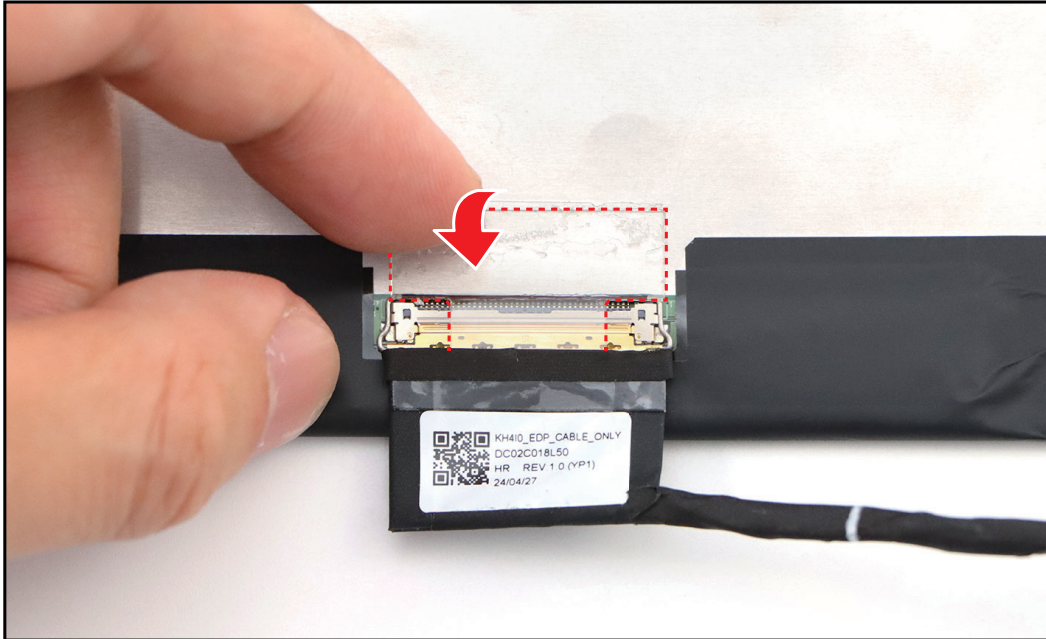


Figure 1-45. Detaching the Mylar

4. Lift to open the latch securing the eDP cable.

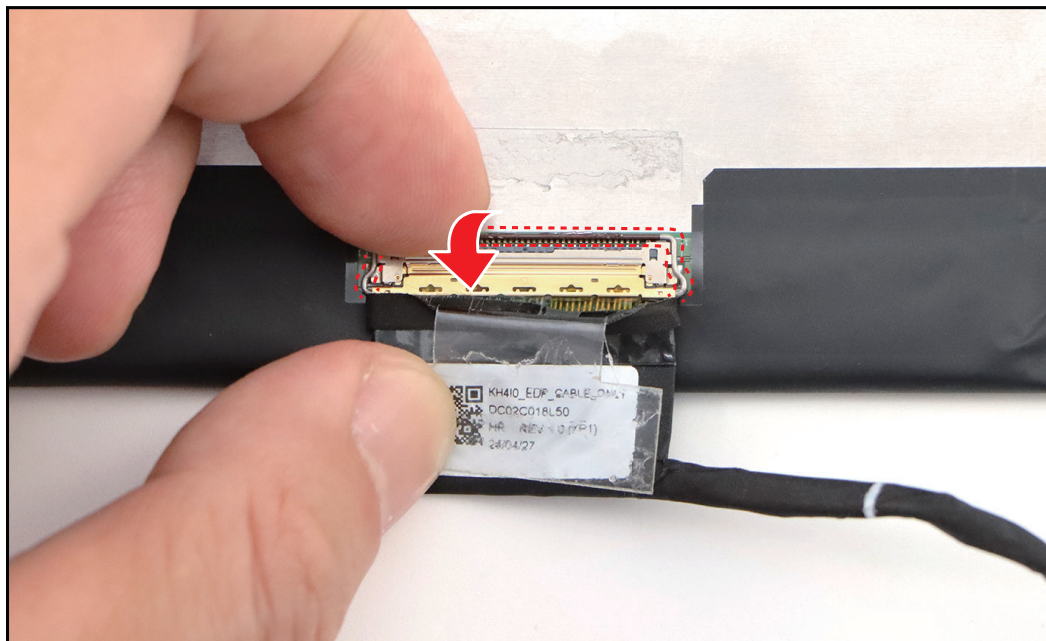


Figure 1-46. Opening the Latch

5. Disconnect the eDP cable from the LCD panel connector. Then remove the LCD panel.

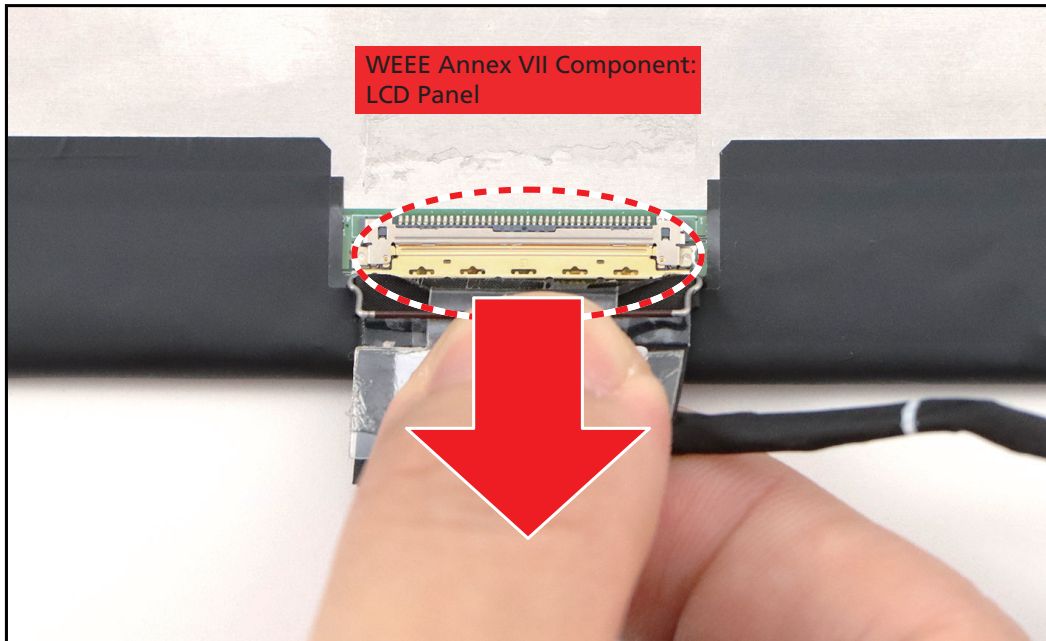
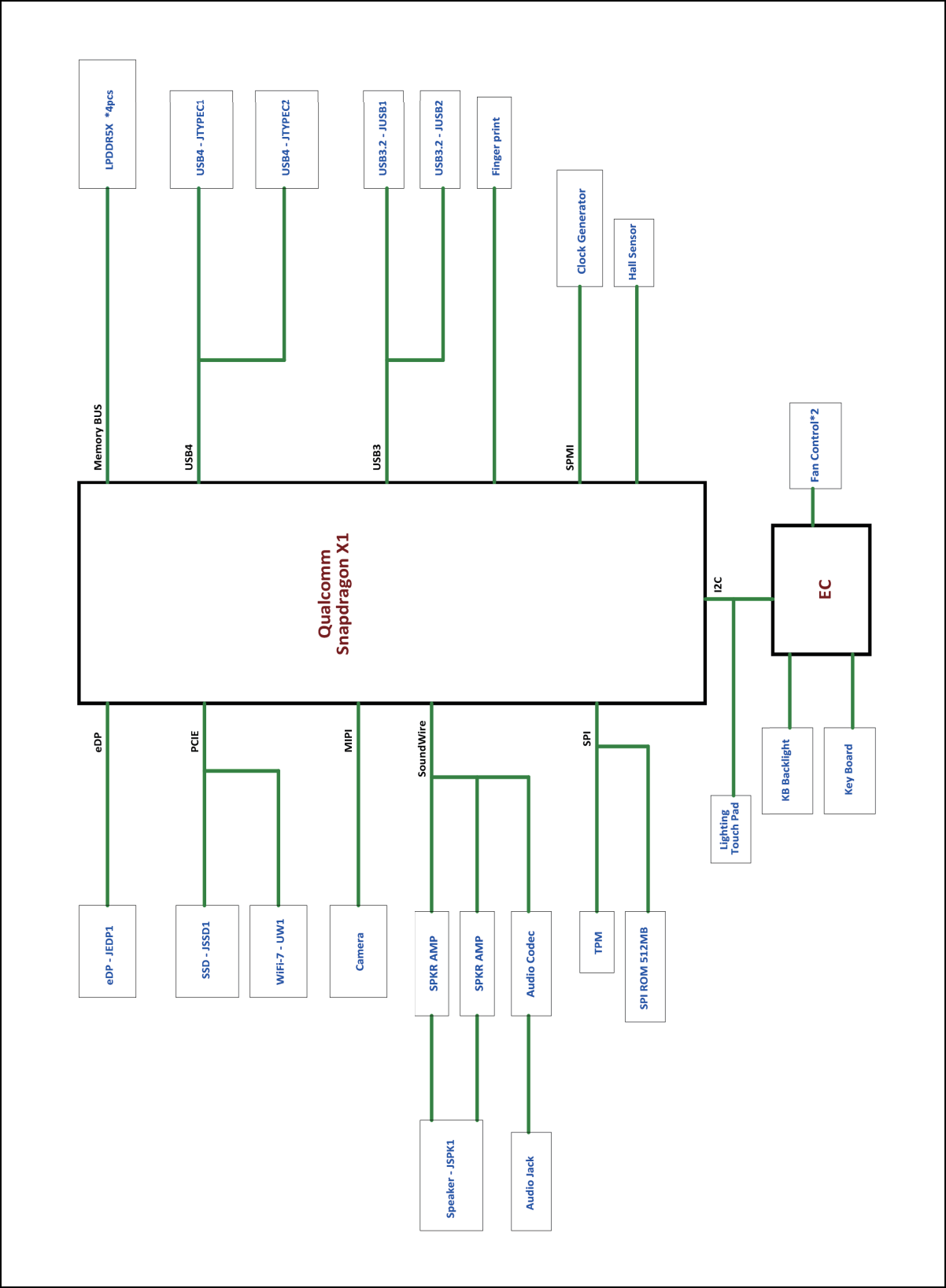


Figure 1-47. Disconnecting the eDP Cable

System Block Diagram



BIOS Setup Utility

The *BIOS Setup Utility* is a hardware configuration program built into a computer's BIOS (Basic Input/Output System).

The BIOS utility is pre-configured and optimized so most users do not need to run this utility. However, if configuration problems occur, you may need to run the BIOS utility.

To activate the BIOS Utility, press **F2** during POST (power-on-self-test) when **Vero Sense** logo appears in the middle of the screen.

To change the boot device without entering the BIOS utility, press **F12** during POST to enter the multi-boot menu. In this menu, users can change the boot device without entering *BIOS Setup Utility*.

Navigating the Bios Setup Utility

The BIOS utility has six menu options: **Information**, **Main**, **Advanced**, **Security**, **Boot**, and **Exit**.

To navigate through the menu options, perform the following:

- To choose a menu or item, use the **UP** and **DOWN** arrow keys.
- Press **Enter** or **RIGHT** arrow key to expand selected item.
- To switch the item status or change the value of a parameter, press **Enter** or **RIGHT** arrow key.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the *BIOS Setup Utility*.

⇒ NOTE:

- Parameter values can be changed if enclosed in square brackets []. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values.
- System information is subject to specific models.

The succeeding sections are descriptions of the menu tabs found on the *InsydeH20 BIOS Setup Utility* screen.

⇒ NOTE:

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

Information Tab

The Information tab displays a summary of the computer hardware information.



Figure 1-1. BIOS Information

Table 1-1. BIOS Information Tab Parameters

Product Information	Remark
CPU Info	Should be same with processor brand string.
Core Frequency	Display Processor Base Core Frequency.
System BIOS Version	Should be same with SMBIOS Type 0 Offset 05h.
HDD Model Name	- This item show the model name of HDD installed. - The hard disk model name is automatically detected by the system. If there is no hard disk present or unknown type, "None" should be shown on this field.
HDD Serial Number	- This item will show the serial number of HDD installed. - If system has more than 1 device, the item should be listed as below: - HDD0 Model Name - HDD0 Serial Number - HDD1 Model Name - HDD1 Serial Number
Total Memory	The field reports the system total installed memory.
On Board Memory Vendor	- Should show the vendor of memory manufacturer. - Also show the information of Memory type.
On Board Memory Size	- Should same as the summary of all Type 17 which the form factor (offset 0x0E) is 0x0B in SMBIOS. - If there is no On Board Memory design, hide this item.

Product Information	Remark
On Board Memory Speed	- Identifies the configured speed of the memory device. - If there is no On Board Memory design, hide this item.
On Board Memory Voltage	- Identifies the configured voltage of the memory device. # means memory's number. If there is only one memory on board, hide this item.
Serial Number	Should be the same with SMBIOS Type 1 Offset 07h.
Asset Tag Number	Should be same with SMBIOS Type 3 Offset 08h.
Product Name	- Should be same with SMBIOS Type 1 Offset 05h. - Product Name is defined by project POR. - The string is case sensitive and the maximum length is 25 bytes.
Manufacturer Name	- Should be same with SMBOS Type 1 Offset 04h. - The string is case sensitive.
UUID	- It is required for all systems. - Display format: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx (follow UUID Standard)

Main Tab

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



Figure 1-2. BIOS Main

Table 1-2. BIOS Main Tab Parameters

Product Information	Example	Remark
System Time	HH:MM:SS	- The format is the number of string. - The hours are displayed in 24-hour format. - The values set in the two fields take effect immediately.
System Date	MM/DD/YY	
Network Boot	[Enabled] / [Disabled]	- Default Network Boot value in different Boot Mode: - [UEFI] Boot Mode: [Disabled] - [Legacy] Boot Mode: [Enabled]
F12 Boot Menu	[Enabled] / [Disabled]	- This function enables or disables the ability that user can press F12 while POST to quickly select the boot device. - The boot device change is only for one time change. In other words, the next time system reboots, the boot device sequence will be the same as the one defined in the BIOS Setup Utility -> Boot Menu. - The default value is [Disabled].

Product Information	Example	Remark
Function key behavior	[Function Key] / [Media Key]	• [Media Key]: Perform the media function by default. Hold Fn to activate F1 to F12. • [Function Key]: Activate F1 to F12 by default. Hold Fn to perform the media function. • Media functions are only active under Windows. F1 to F12 act as normal function keys during device boot or while in BIOS. • Default setting depends on the product line definition. • The built-in USB keyboard / 5 ROW keyboard layout follow keyboard's design and no need to add BIOS switch.
Wake on USB while lid closed	[Enabled] / [Disabled]	• If enabled, USB devices can wake the system, even if the lid is closed. • The option grey out on modern standby supported system when "USB wake from S4 Support" disabled. • The default value is [Disabled].
D2D Recovery	[Enabled] / [Disabled]	• This function enables/disables Acer disc-to-disc Recovery. • To do Acer disc-to-disc system recovery, press Alt+F10 key during POST.
Fast Boot	[Enabled] / [Disabled]	• Enable/Disable Fast Boot. • Skip timeout variable when the Fast Boot enabled. • The default value is [Enabled].
Display Language	[English]	• BIOS display language. • BIOS supports 13 languages, which are English / Spanish / Chinese / German / Dutch / Brazilian Portuguese / Danish / Italian / Norwegian / Swedish / Russian / French. • The default display language is [English].

Advanced Tab

The Security tab allows the user to configure and protect the computer from unauthorized usage.

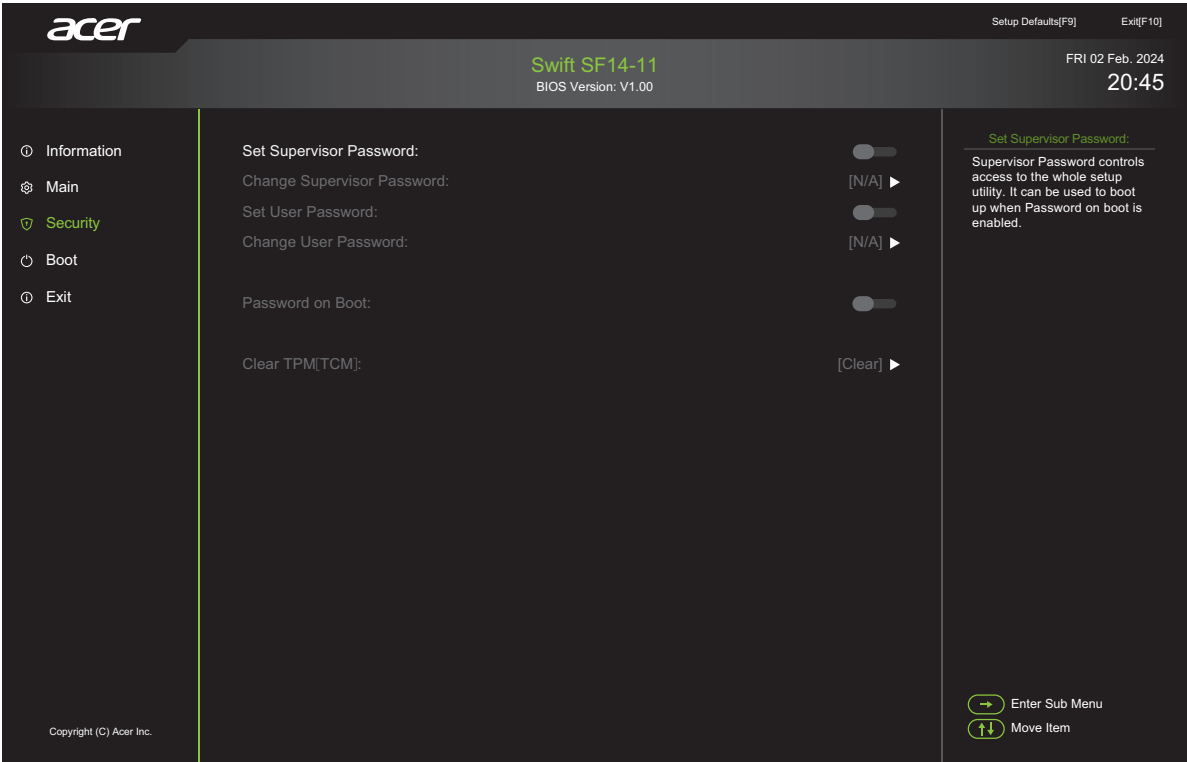
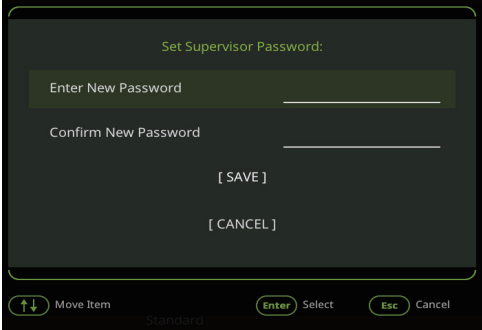
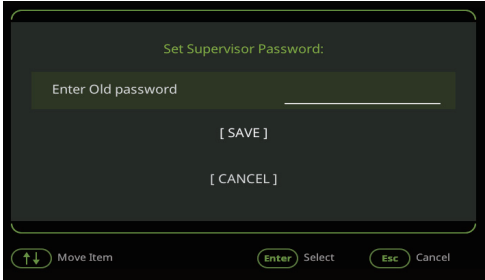
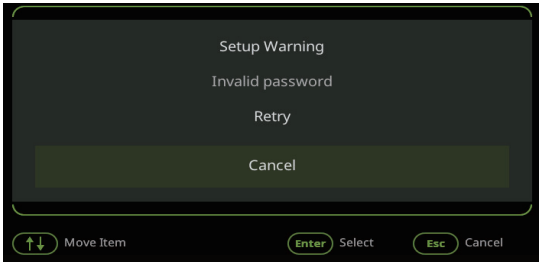
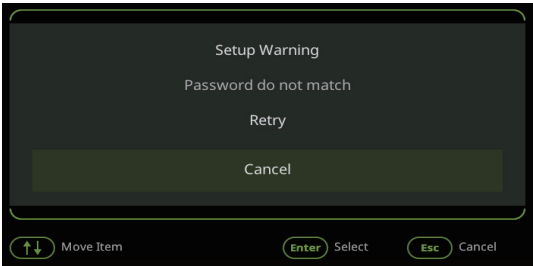


Figure 1-3. BIOS Security

Table 1-3. BIOS Security Tab Parameters

Product Information	Example	Remark
Set Supervisor Password	[Enabled] / [Disabled]	- This field indicates if the Supervisor Password is set or not. [Enabled]: Supervisor Password is set. [Disabled]: Supervisor Password is not set. - The default value is [Disabled].
Set User Password	[Enabled] / [Disabled]	- This field indicates if the User Password is set or not. [Enabled]: User Password is set. [Disabled]: User Password is not set. - The default value is [Disabled].

Product Information	Example	Remark
Change Supervisor Password		If the password is not set, this field always shows the default value [N/A]. If the Supervisor Password is not set, then the User Password is grayed out. While these fields are highlighted, press [Change]. The following dialog box appears: 
Change User Password	[N/A] / [change]	If there is an old password, then the setup will prompt with the following windows instead and a current password will be required to be entered at first.  User can now type password in field Enter New Password field and retype the password to Confirm New Password Again field. If the verification is correct and the password setting is complete after user pressed Enter. 

Product Information	Example	Remark
Change User Password (<i>continued</i>)	[N/A] / [change]	If the current password entered does not match the actual current password, the following Setup Warning dialog box appears.  If the new password and confirm new password do not match, the following Setup Warning dialog box appears.  For the password format, refer to Page 1-46.
Password on Boot	[Enabled] / [Disabled]	• Defines whether a password is required or not when the events defined in this group take place. • Password on Boot option requires the Supervisor Password. During login, this should be grayed out if the User Password was used to enter BIOS Setup Utility. • Allows user to specify whether or not a password is required for boot. • The default value is [Disabled].
Clear TPM (TCM)	[Clear]	Change TPM State is displayed on BIOS Setup Utility no matter the Supervisor / User Password is set or not. If the Supervisor Password is not set, it should be a grayed out item.

Security Tab

The Security tab allows the user to configure and protect the computer from unauthorized usage.

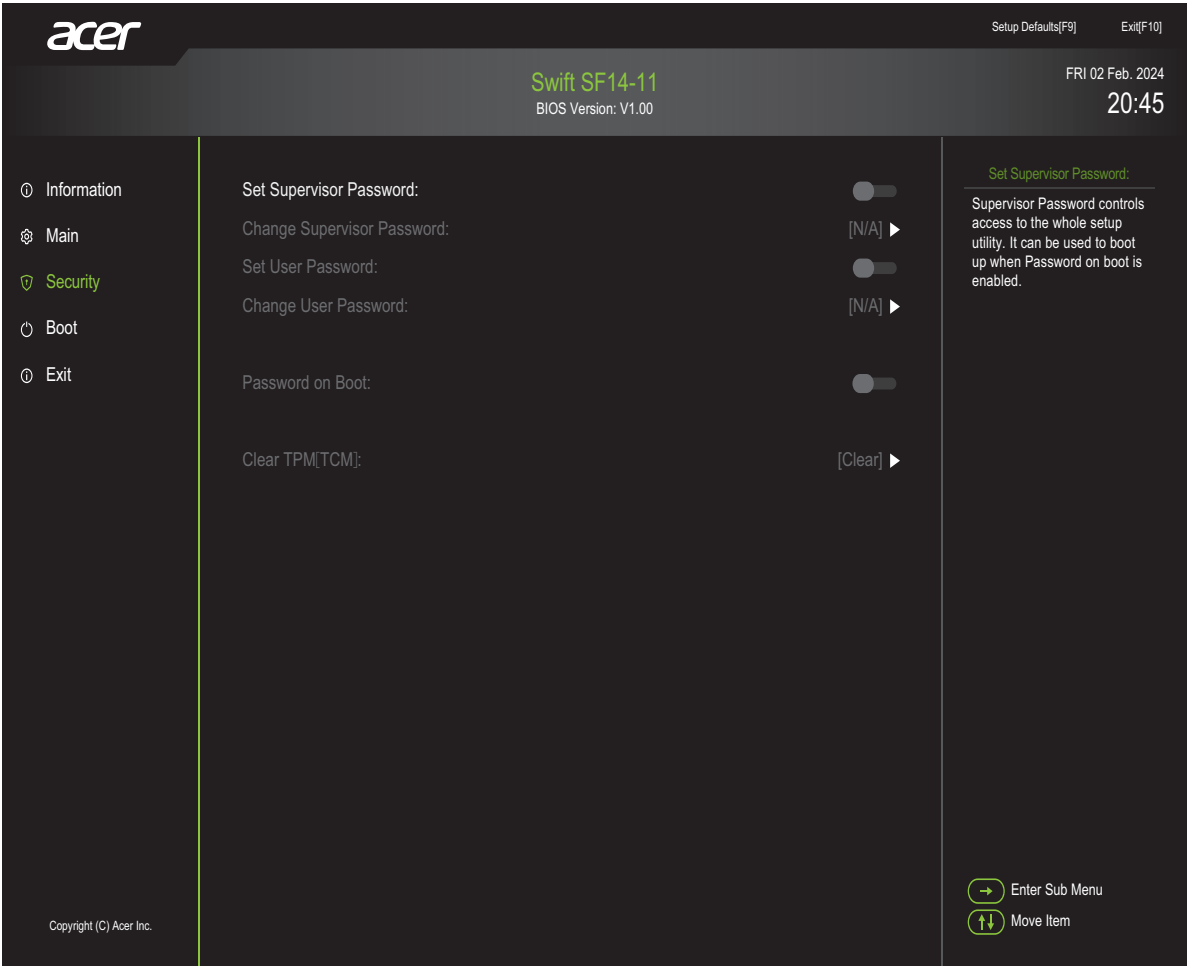
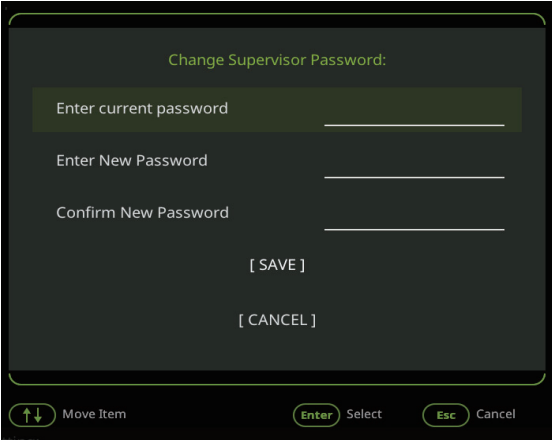


Figure 1-4. BIOS Security

Table 1-4. BIOS Security Tab Parameters

Product Information	Example	Remark
Set Supervisor Password	[Enabled] / [Disabled]	• This field indicates if the Supervisor Password is set or not. • [Enabled]: Supervisor Password is set. • [Disabled]: Supervisor Password is not set. • The default value is [Disabled].
Set User Password	[Enabled] / [Disabled]	• This field indicates if the User Password is set or not. • [Enabled]: User Password is set. • [Disabled]: User Password is not set. • The default value is [Disabled].

Product Information	Example	Remark
Set HDD (OPAL) Password	[Enabled] / [Disabled]	- This field indicates if the HDD(OPAL) Password is set or not. [Enabled]: HDD(OPAL) Password is set. [Disabled]: HDD(OPAL) Password is not set. - The default value is [Disabled].
Change Supervisor Password	[N/A] / [change]	[N/A] means password is not set. After set password, item value will be change to [Change]. After press [Change], pop up a window to ask user to enter current password. Refer to following picture:  User should enter current password first and then type the new password in the "Enter New Password" field, next re-enter the password in the "Confirm New Password" field for verification. If the verification is OK, password setting is complete after user presses Enter. If the current password entered does not match with the actual current password, the pop-up warning message "Invalid password" appears on the screen. If the new password and confirm new password do not match, then the pop-up warning message "Password do not match" appears on the screen. For the format of the password, please refer "Valid Password Characters" in the Security Feature - Password section. If the system has more than 1 HDD, then the HDD password items that are listed in the Security Menu should be as below: - Set HDD0 Password - Change HDD0 Password - Set HDD1 Password - Change HDD1 Password
Change User Password		
Change HDD (OPAL) Password		

Product Information	Example	Remark
Revert HDD (OPAL) Device	[Enter]	• This field always shows the default value [Enter]. • Only available for the storage leverage OPAL protocol. If the Supervisor Password is not set, the option should be a grayed out item. • User has to enter the PSID printed on the storage label. It reverts the OPAL Device to the factory default values and erases all data. • A caution message pops up to let the end user to reconfirm the unrecoverable action: "Caution: Revert device will erase all data and can't be recovered. Do you really want to proceed? [Y/N]. The naming rule follows the displayed storage.
Executed Revert Log	Executed Date + HDD(OPAL) Device name	• This item should be hidden by default. • Only visible after the user presses the "Service key" on this page (Security Tab). • The Date format should be MM/DD/YY and it comes from CMOS. • This option keeps the latest five data.
Password on Boot	[Enabled] / [Disabled]	• Defines whether a password is required or not when the events defined in this group take place. • Password on Boot option requires the Supervisor Password. During login, this should be grayed out if the User Password was used to enter BIOS Setup Utility. • Allows user to specify whether or not a password is required for boot. • The default value is [Disabled].
Secure Boot Mode	[Standard] / [Custom]	Displays the current Secure Boot Mode status: • [Standard]: No manual change has been done to Secure Boot setting or user has previous restore Secure Boot to Factory Default. • [Custom]: Contents of the Secure Boot signature database has been previously modified with "Erase all Secure Boot Setting" or "Select an UEFI file as trusted executing". • The default value is [Standard].

Product Information	Example	Remark
Authorized Signatures	[Enabled] / [Disabled]	- This item should be hidden by default. - Only visible after the Secured-core PC identifier variable "BuiltAsSecuredCorePC" be set to non-zero value. [Enabled]: Load MSFT 3rd Party UEFI CA. [Disabled]: Do not load MSFT 3rd Party UEFI CA and gray out "Select and UEFI file as trusted" option.
Erase all Secure Boot Setting	[Enter]	- Erase all contents in secure four variables PK, KEK, DB, and DBX. - A confirmation dialog will pop up to confirm user's action.
Select an UEFI file as trusted for executing	[Enter]	- This action allows user to select all available UEFI files in FAT32 partition and add the UEFI hash into secure DB. - This action will follow below method: - Display available device for users to select the UEFI file location. - Display all files in the device and allow user to select the intended file (Only efi file can be added to the signature database) and the interface will allow user to go up or enter directory. - If "Yes" is selected, the file hash will be added to the signature database and return to Security Menu. If "No" is selected, it will return back to the previous file selection menu. - Added efi file's Boot description will be added into boot device order list's last place, a maximum of 5 entries are allowed.
Restore Secure Boot to Factory Default	[Enter]	- Restore the setting back to the factory settings. When save and exit the BIOS Setup Utility, the default Secure Boot factory settings will be restored. - By executing this action, the Secure Boot Mode will be reset to [Standard] upon next entry to the BIOS Setup Utility.
TPM Device Selection	[iPTT] / [dTPM]	[iPTT]: Intel PTT. [dTPM]: Discrete TPM only.
Current TPM (TCM) State (For TPM 2.0)		- This field indicates current TPM State. - The current TPM or TCM State description is according the current TPM or TCM is connected. - The current TPM State is displayed on BIOS Setup Utility no matter Supervisor /User Password is set or not and is grayed out item that can't be modified manually.

Product Information	Example	Remark
Change TPM (TCM) State (For TPM 2.0)	[Enabled] / [Disabled]	• Change TPM State is displayed on BIOS Setup Utility no matter Supervisor / User Password is set or not. If Supervisor Password is not set, it should be a grayed out item. • Default TPM state for UEFI Mode is set to [Enabled] and requires Supervisor Password to change the state. • [Disabled]: BIOS don't initial TPM 2.0 device and hide the TPM 2.0 device in ACPI table, it makes no TPM device in Windows device manager. • Change TPM state will support the items list in left.
Clear TPM (TCM)	[Clear]	Change TPM State is displayed on BIOS Setup Utility no matter the Supervisor / User Password is set or not. If the Supervisor Password is not set, it should be a grayed out item.
Absolute Persistence Module	Enabled] / [Disabled] / [Permanently Disabled]	• This field indicates the state of Absolute Persistence Module. • [Enabled]: The Persistence interface is enabled. Persistence may now be activated or deactivated. • [Disabled]: The Persistence interface is disabled. The Persistence Module does not run and Persistence is deactivated. • [Permanently Disabled]: Persistence is disabled and can only be enabled via a full reset at the factory. If user chooses Permanently Disabled, popup one "red" warning dialog box and describe "Absolute Persistence Module will be disabled permanently and cannot be enabled again, are you sure?" • The default value is [Enabled]. • If the Supervisor Password is not set, it should be a grayed out item.

⇒ NOTE:

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

Setting a Password

Perform the following to set the supervisor password:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press **Enter**. The Set Supervisor Password dialog box appears.

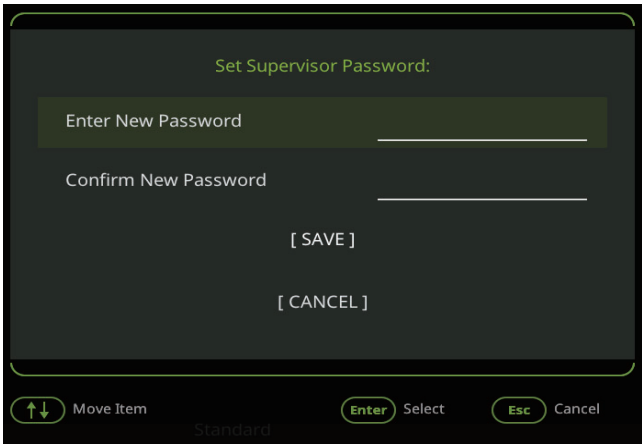


Figure 1-5. Set Supervisor Password

2. Type the password in the Enter New Password field.

⇒ NOTE:

Passwords are not case sensitive and the length must not exceed 16 characters. The following characters may be used in a password.

Symbol Character	Symbol Name
A - Z	Alphabets A through Z
a - z	Alphabets a through z
0 - 9	Numerical Characters
-	HYPHEN-MINUS
=	Equal Sign
[	Left Bracket
]	Right Bracket
.	Period
,	Comma
;	Semi-colon
/	Slash
\	Back-slash
`	Grave Accent
~	TILDE
!	EXCLAMATION MARK
@	COMMERCIAL AT
#	NUMBER SIGN
\$	Dollar Sign
%	Percent Sign

Symbol Character	Symbol Name
^	CIRCUMFLEX ACCENT
&	AMPERSAND
*	ASTERISK
(	LEFT PARENTHESIS
)	RIGHT PARENTHESIS
_	LOW LINE
+	PLUS SIGN
{	LEFT CURLY BRACKET
}	Right CURLY BRACKET
	VERTICAL LINE
:	COLON
"	QUOTATION MARK
<	LESS-THAN SIGN
>	GREATER-THAN SIGN
?	QUESTION MARK
'	APOSTROPHE

IMPORTANT:

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

3. Retype the password in the `Confirm New Password` field.
4. Press **Enter**. The `Setup Notice` dialog box appears.

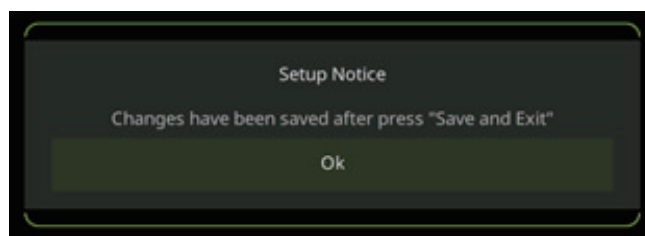


Figure 1-6. Setup Notice

5. Press **Enter** to complete the password setting. After the setting the supervisor password, the computer sets the `Supervisor Password Is` parameter to `Set`.
6. Press **F10** to save changes and exit *BIOS Setup Utility*.

NOTE:

The same procedures apply in setting the user password and HDD password.

When the supervisor password is set, the `Set User Password` and `Password on Boot` parameters are enabled for users to configure.

Changing a Password

Perform the following to change a password:

⇒ NOTE:

Below are the procedures for changing the supervisor password. The same procedures apply in changing the user and HDD passwords.

1. Use the **↑** and **↓** keys to highlight the `Set Supervisor Password` parameter and press **Enter**. The `Set Supervisor Password` dialog box appears.

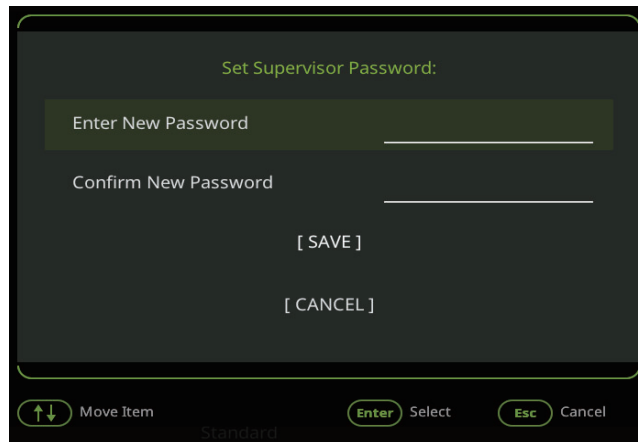


Figure 1-7. Change Supervisor Password

2. Type the current password in the `Enter New Password` field and press **Enter**.
3. Type the new password in the `Current New Password` field and press **Enter**.
4. Retype the new password in the `Confirm New Password` field.
5. Press **Enter**. If the passwords match, the `Setup Notice` dialog box appears.

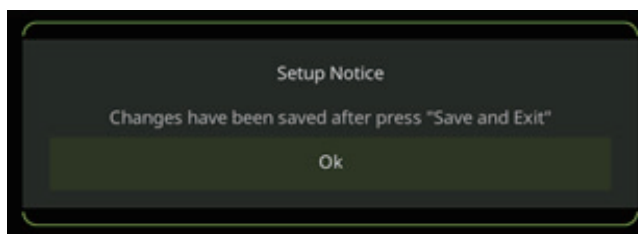


Figure 1-8. Setup Notice

6. Press **Enter** to complete the password setting. The computer sets the `Supervisor Password Is` parameter to `Set`.
7. Press **F10** to save changes and exit *BIOS Setup Utility*.

Removing a Password

Perform the following to remove a password:

⇒ NOTE:

Below are the procedures for removing the supervisor password. The same procedures apply in removing the user and HDD passwords.

When the supervisor password is removed, the user password is automatically removed.

1. Use the **↑** and **↓** keys to highlight the `Set Supervisor Password` parameter and press **Enter**. The `Set Supervisor Password` dialog box appears.

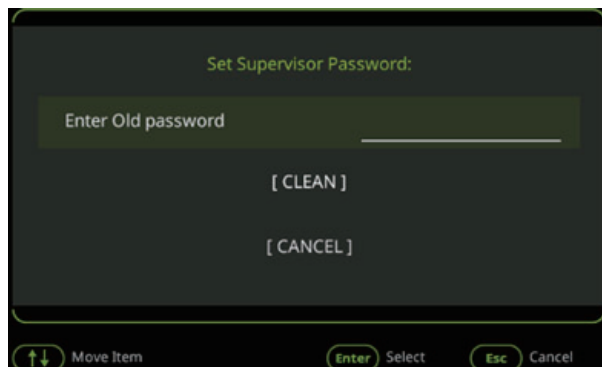


Figure 1-9. Set Supervisor Password

2. Type the current password in the `Enter Old Password` field and press **Enter**.
3. Press **Enter** twice without typing anything in the `Enter New Password` and `Confirm New Password` fields. The `Setup Notice` dialog box appears.

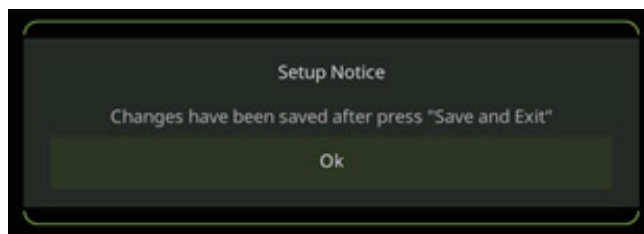


Figure 1-10. Setup Notice

4. Press **Enter** to complete the password setting. The computer sets the `Supervisor Password Is` parameter to `Clear`.
5. Press **F10** to save changes and exit *BIOS Setup Utility*.

Boot Tab

The Boot tab allows the user to configure the order of boot devices used to load the operating system.

Use ↑ and ↓ keys to select a device to change the value.

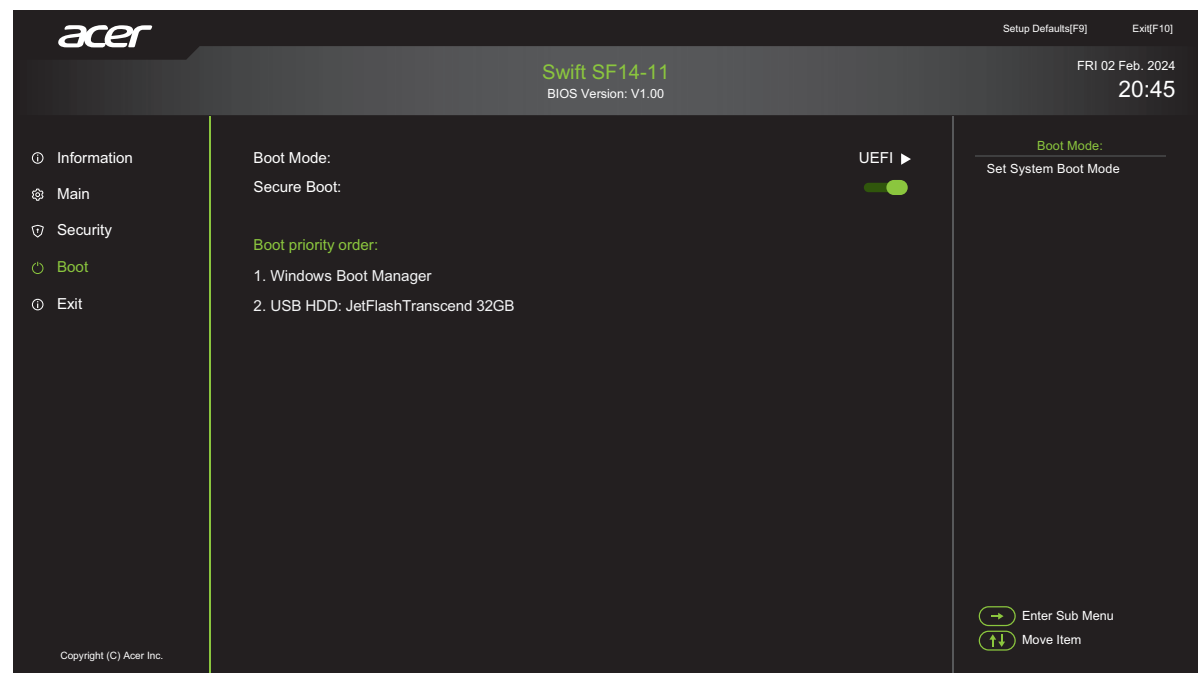


Figure 1-11. BIOS Boot

Table 1-5. BIOS Boot Tab Parameters

Product Information	Example	Remark
Boot Mode	[UEFI]	- After user flashes BIOS or loads the Setup Defaults, the Boot Mode should return to its factory default value. - The default Boot Mode value is [UEFI].

Product Information	Example	Remark
Secure Boot	[Enabled] / [Disabled]	- If the default Boot Mode is [UEFI], then the default Secure Boot status is [Enabled] and CSM module can't be loaded during boot. - If the user sets the Secure Boot to [Disabled], the firmware will bypass secure boot verification. - The Secure Boot status is only available on [UEFI] Boot Mode and it is hidden under [Legacy] Boot Mode. - In [UEFI] Boot Mode, the Secure Boot status is default gray out and could only be modified by following actions: - Supervisor password had been set. - When BIOS "Load Setup Defaults" is executed, if the default Boot Mode is [UEFI], the Secure Boot status will reset to [Enabled]. On the contrary, if the default Boot Mode is [Legacy], the Secure Boot will be disabled and hidden in the Boot Menu. - When user changes the Boot Mode from [Legacy] to [UEFI], Secure Boot status will be set to [Enabled] and shown in the Boot Menu.
Boot Priority Order		- If the Boot Mode has changed, the Boot Priority Order will not be refreshed until the next BIOS Setup Utility entry. - When the Boot Mode is [UEFI] or [Legacy] (UEFI+CSM), and users enable Windows To GO Startup Options under OS, an USB class boot entry name "USB Entry for Windows To GO" will be inserted into the top of the Boot Priority Order and Boot Option Menu. - If the "USB Entry for Windows To Go" is present, and BIOS "Load Setup Defaults" is executed, "USB Entry for Windows To Go" will be set to 1st Boot Device in Boot Priority Order. - If eMMC and HDD exist in the same time, eMMC is set as the default boot device.

⇒ NOTE:

- Wired connection will display `Network Boot-IPV4` and `Network Boot-IPV6` as two separate network boot devices.
- After Windows 8 OS is installed, a `Windows Boot Manager` will be generated and displayed on top of the boot device priority.
- Non-physical boot devices can be deleted in the Boot Priority Order List, this includes `A trusted boot entry` and `Windows Boot Manager`.
- If two (2) HDD is configured as RAID, only HDD0 is presented.

Exit Tab

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

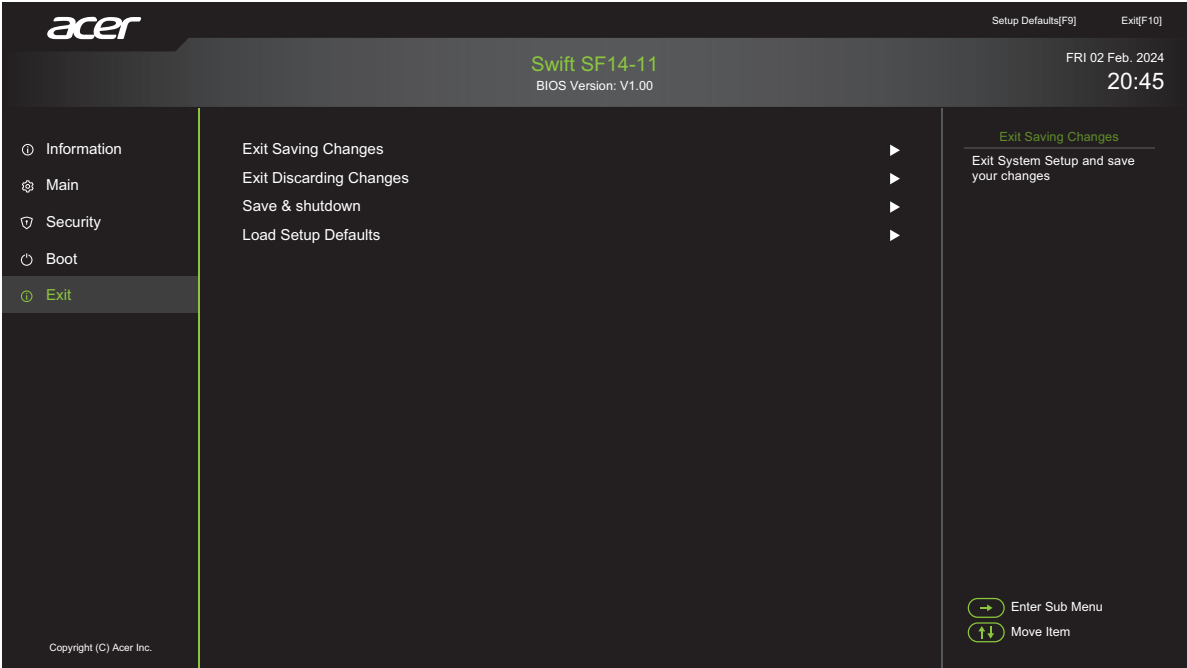


Figure 1-12. BIOS Exit

Table 1-6. BIOS Exit Tab Parameters

Parameter	Description
Exit Saving Changes	Save the changes and exit the BIOS utility.
Exit Discarding Changes	Exit the BIOS utility without saving the changes to the system.
Save & shutdown	Save changes and shutdown the system.
Load Setup Defaults	- Allow user to load factory default configurations in the Setup Utility. - A confirmation message will pop up as below when user executes this item. The system will stay in the Setup Utility after either selection. Setup Confirmation Load default configuration now? Yes No ↑↓ Move Item Enter Select Esc Cancel

Troubleshooting

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

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 to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.
 - Do not replace a non-defective FRU.
1. Obtain as much detail as possible about the problem.
 2. If possible, verify the symptoms by re-creating the failure through diagnostic tests or by repeating the operation that led to the problem.
 3. Use Table 4-1 with the verified symptom(s) to determine the solution.

Table 1-1. Verified Symptoms

Symptoms	See
Power on Issues	Figure 1-1. Power On Issues
No Display Issues	Figure 1-2. No Display Issues
LCD Picture Failure	Figure 1-3. LCD Picture Failure
Internal Keyboard Failure	Figure 1-4. Internal Keyboard Failure
Touchpad Failure	Figure 1-5. Touchpad Failure
Internal Speaker Failure	Figure 1-6. Internal Speaker Failure
Internal Microphone Failure	Figure 1-7. Internal Microphone Record Failure
USB3.0 Failure	Figure 1-8. USB3.0 Failure
Wireless Function Failure	Figure 1-9. Wireless Function Test Failure
Bluetooth Function Failure	Figure 1-10. Bluetooth Function Test Failure
Units Thermal Failure	Figure 1-11. Units Thermal Failure
Cosmetic Failure	Figure 1-12. Cosmetic Failure
Other Functions Failure	Page 1-66

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

Power On Issues

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

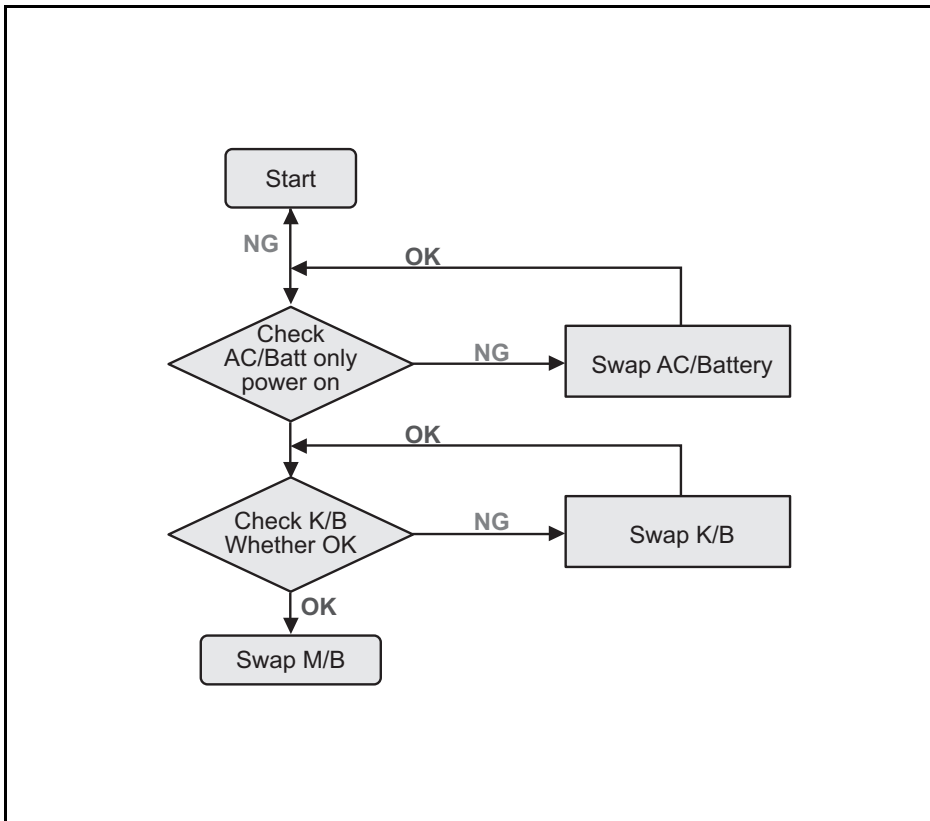


Figure 1-1. Power On Issues

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. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
5. Remove any recently installed software.
6. If the Issue is still not resolved, please contact Acer local service.

No Display Issues

If the system does not display, perform the following:

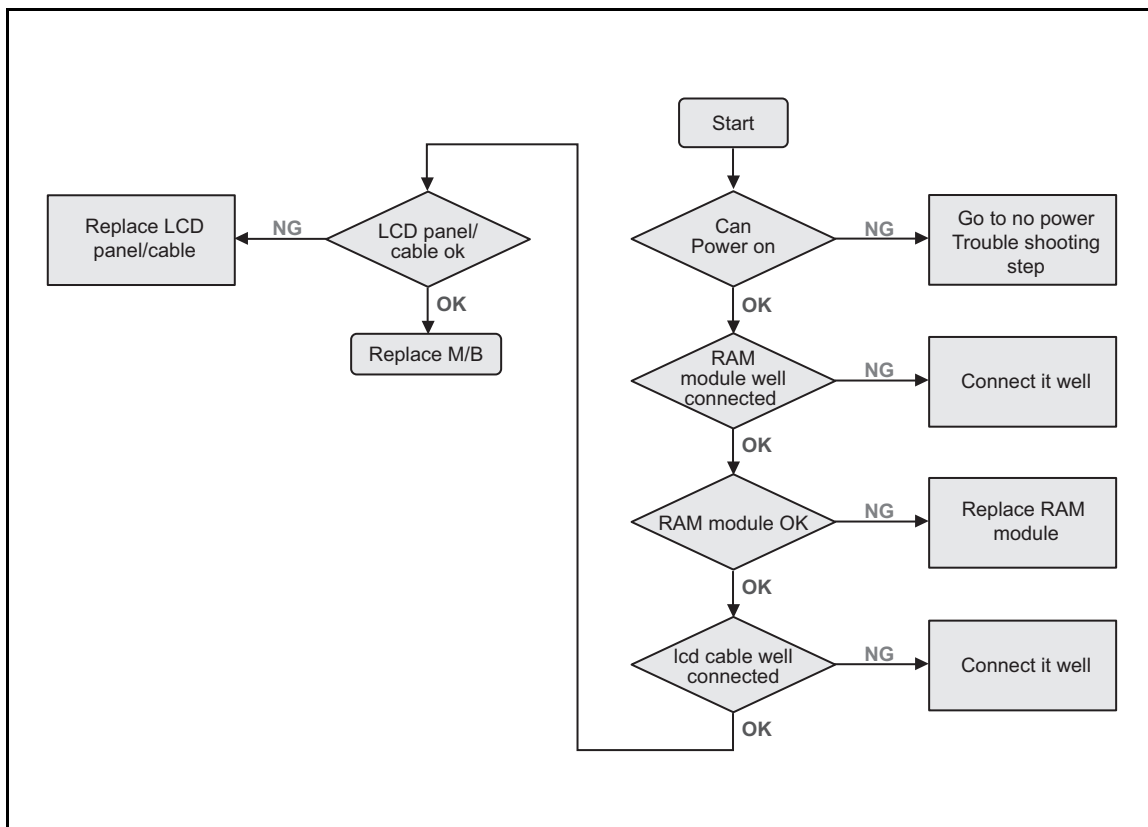


Figure 1-2. No Display Issues

No POST or Video

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

1. Make sure that internal display is selected. Switching between internal and external by pressing Fn+F5. 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
3. If there is no power, refer to [Power On Issues](#) on page 54. Otherwise, continue to the next step.
4. If there is power, drain the stored power by removing the power cable. Hold the power button for 10 seconds.
5. Connect the power and reboot the computer.
6. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing Fn+F5.
7. If the POST or video appears on the external display only, refer to [LCD Picture Failure](#) on page 57. Otherwise, continue to the next step.

8. Disconnect the power and all external devices including port replicators or docking stations.
9. Remove any memory cards.
10. Start the computer. If the computer boots correctly, add the devices one by one until the failure point is discovered.
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.
 - 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.
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. Run the *Windows Memory Diagnostic* from the operating system DVD and follow the on-screen prompts.
8. If the Issue is still not resolved, please contact Acer local service.

LCD Picture Failure

If the LCD picture fails, perform the following:

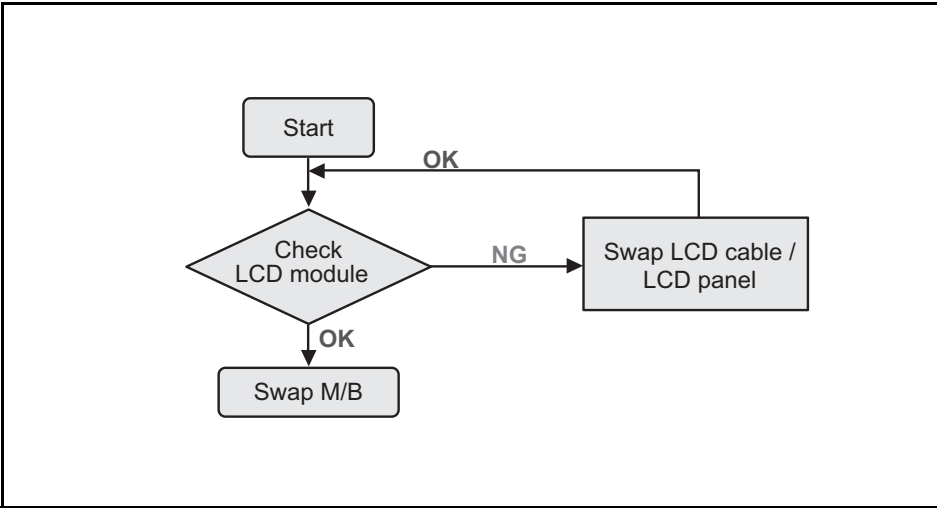


Figure 1-3. LCD Picture Failure

Internal Keyboard Failure

If the internal keyboard function fails, perform the following:

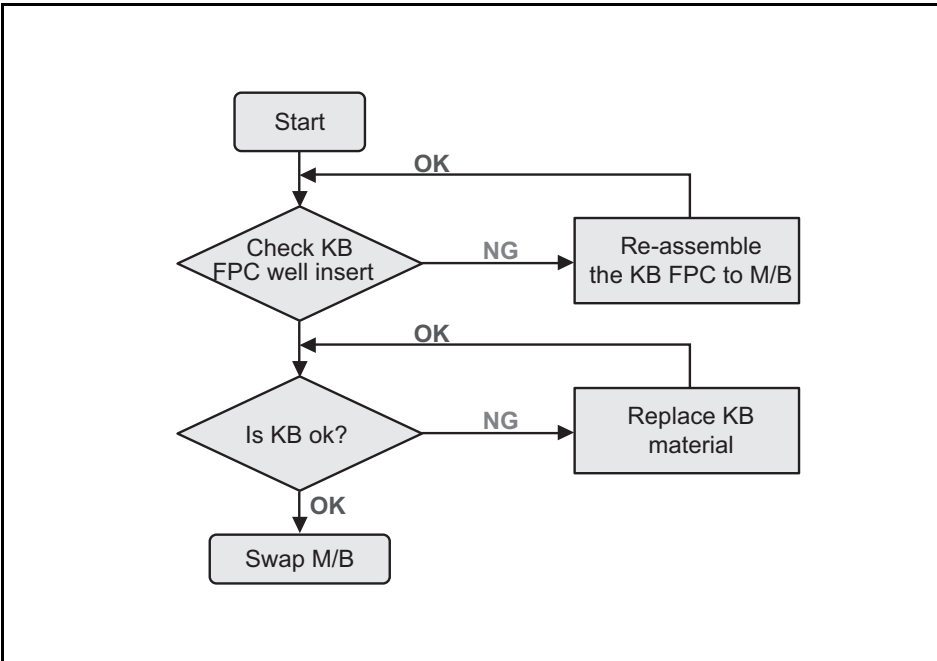


Figure 1-4. Internal Keyboard Failure

Touchpad Failure

If the touchpad fails, perform the following:

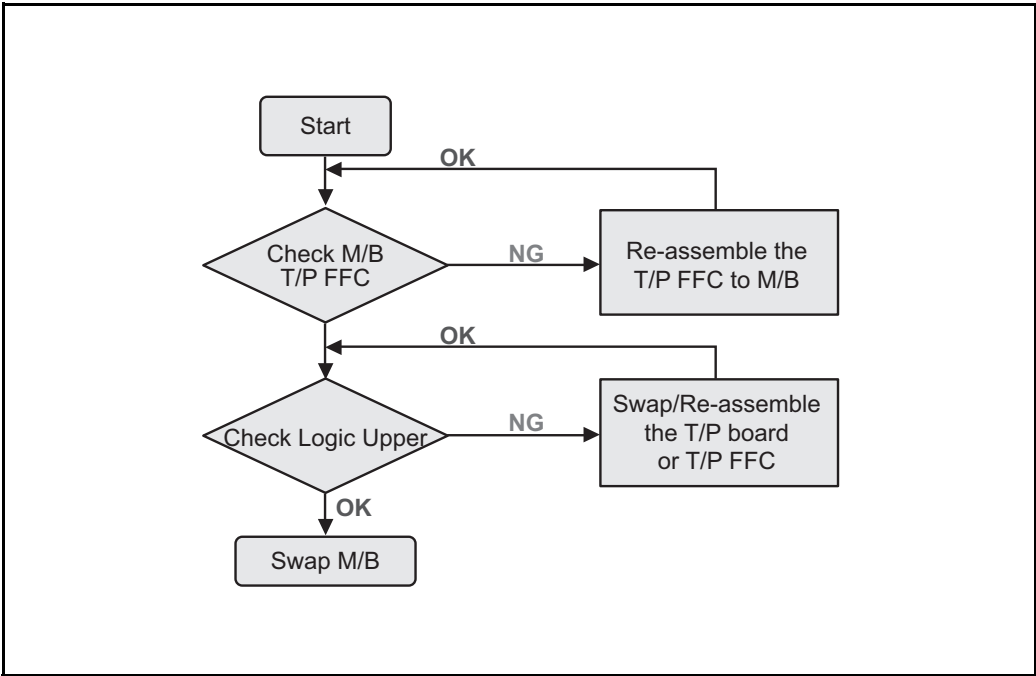


Figure 1-5. Touchpad Failure

Internal Speaker Failure

If the internal speaker fails, perform the following:

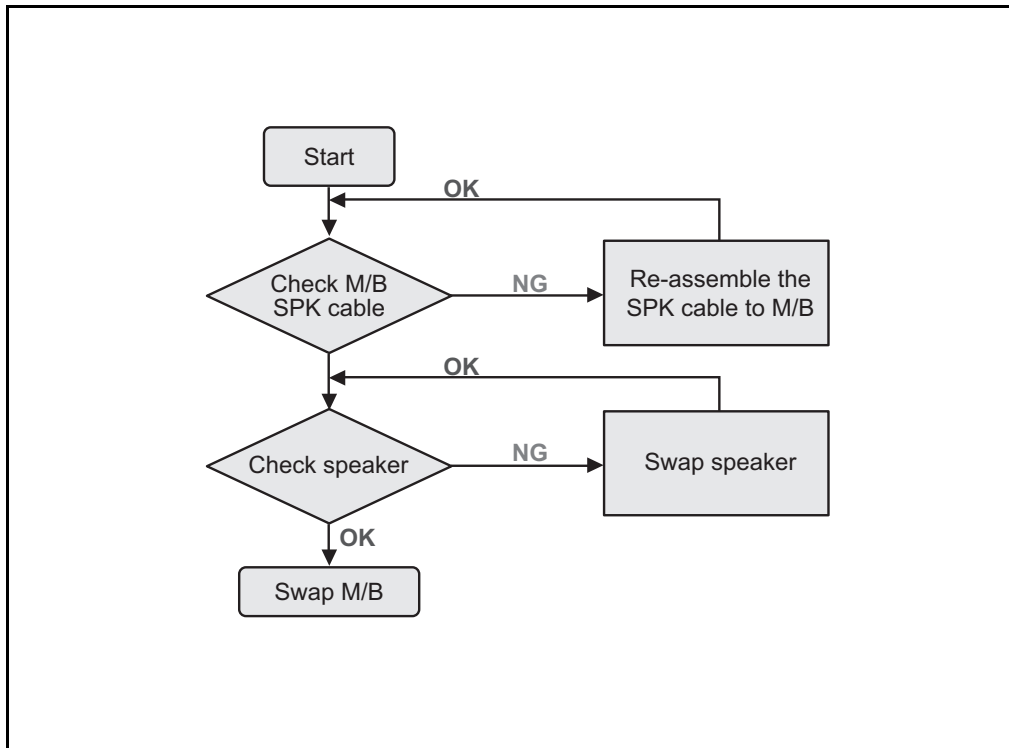


Figure 1-6. Internal Speaker Failure

Sound Problems

Perform the following:

1. Boot the computer.
2. 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
3. If updated recently, roll back the audio driver to the previous version.
4. Remove and reinstall the audio driver.
5. 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.
6. Confirm that Speakers is selected as the default audio device (green check mark) in the Control Panel.

⇒ **NOTE:**

If **Speakers** is not shown, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).

7. Select **Speakers** and click **Configure** to start **Speaker Setup**. Follow the on-screen prompts to configure the speakers.
8. Remove any recently installed hardware or software.
9. Restore system and file settings from a known good date using System Restore.
10. If the issue is remains, repeat step 9, selecting an earlier time and date.
11. Reinstall the Operating System.
12. If the Issue is still not resolved, please contact Acer local service.

Internal Microphone Record Failure

If the internal microphone fails to record, perform the following:

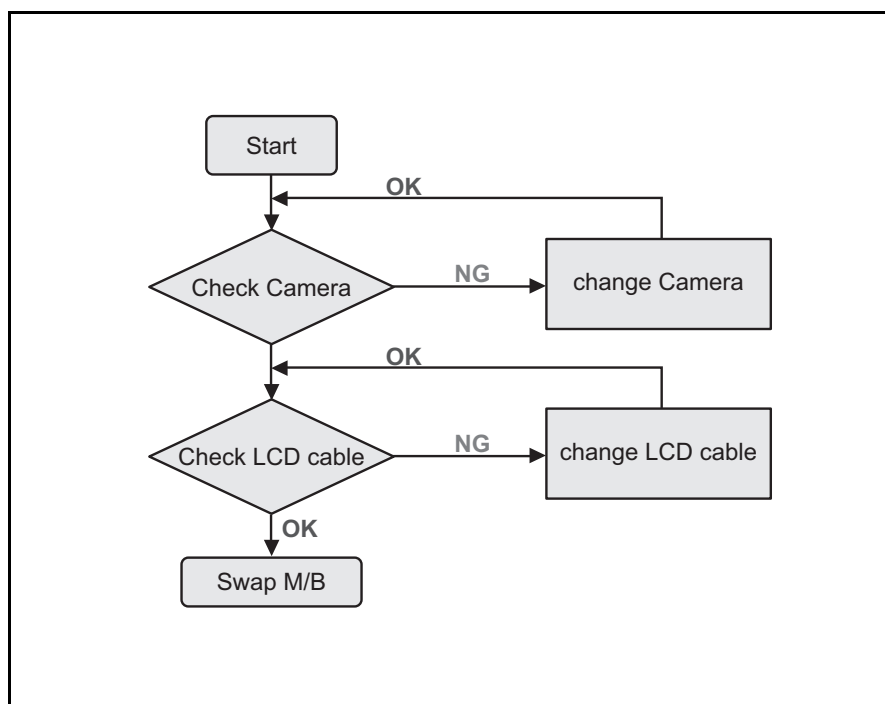


Figure 1-7. Internal Microphone Record Failure

USB3.0 Failure

If the USB function fails, perform the following:

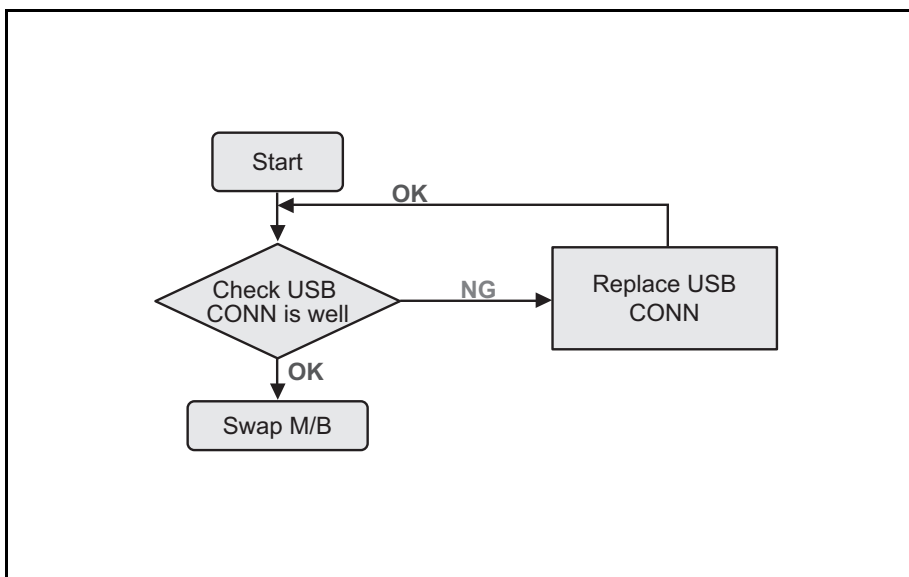


Figure 1-8. USB3.0 Failure

Wireless Function Test Failure

If the wireless function test fails, perform the following:

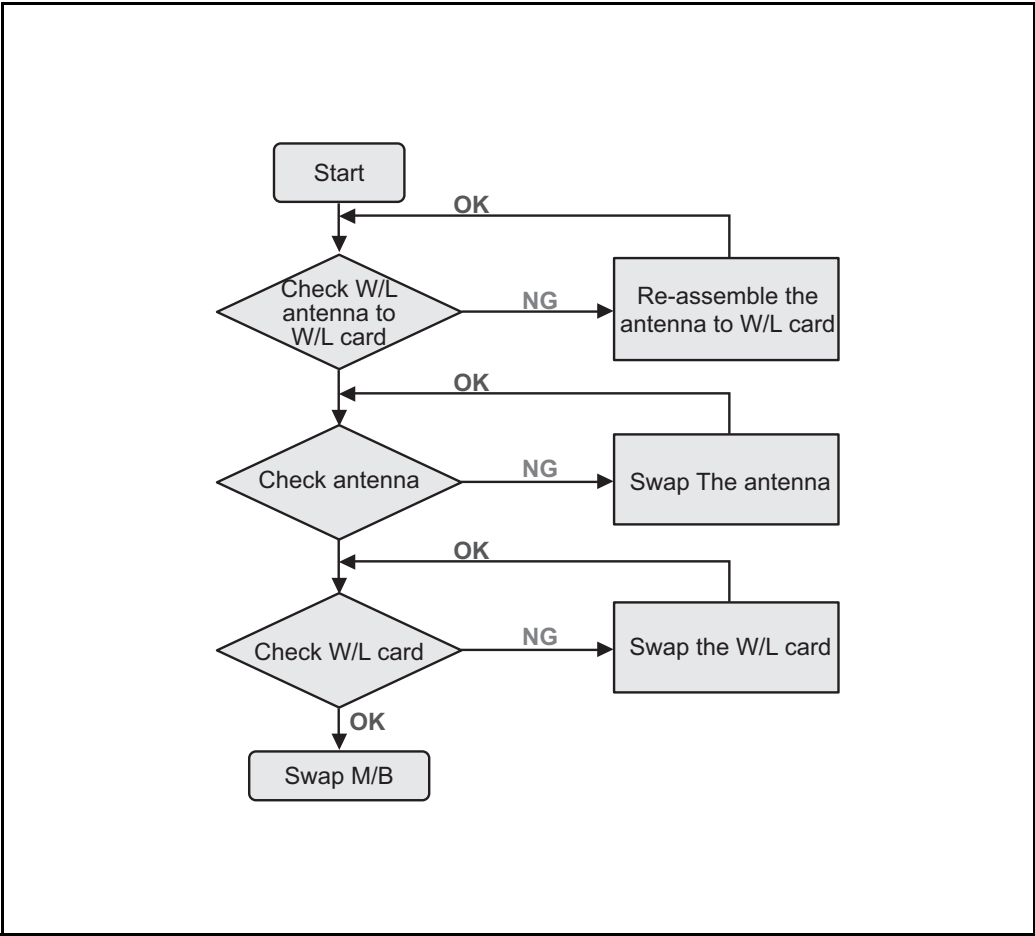


Figure 1-9. Wireless Function Test Failure

Bluetooth Function Test Failure

If the Bluetooth function test fails, perform the following:

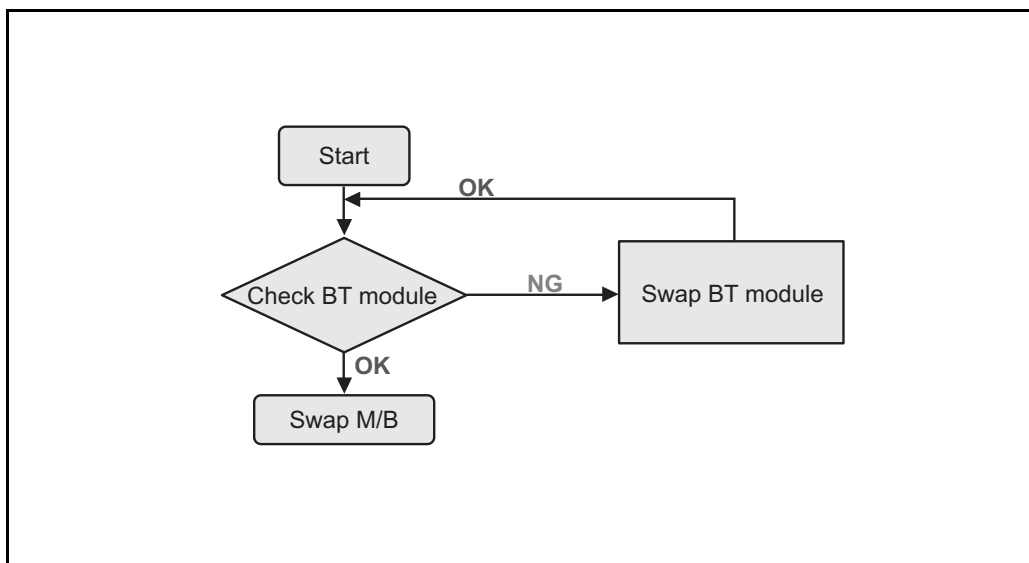


Figure 1-10. Bluetooth Function Test Failure

Units Thermal Failure

If the units thermal fails, perform the following:

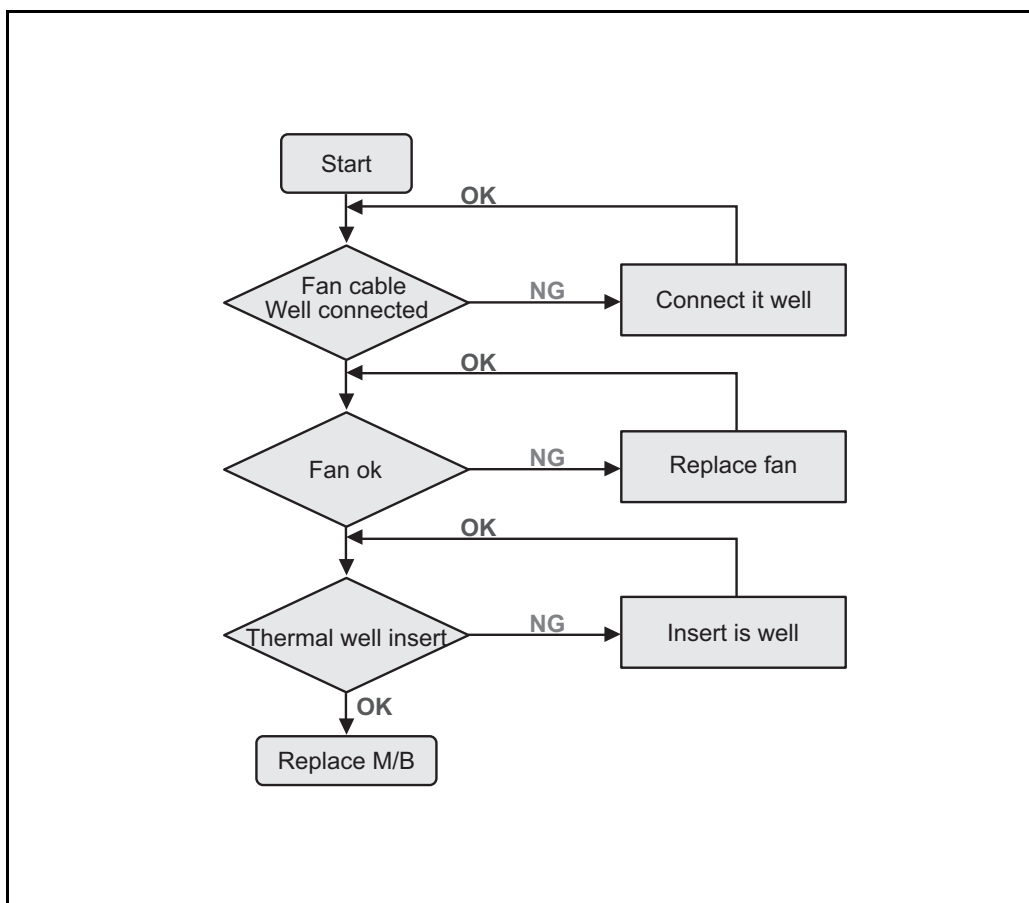


Figure 1-11. Units Thermal Failure

Cosmetic Failure

If the cosmetic fails, perform the following:

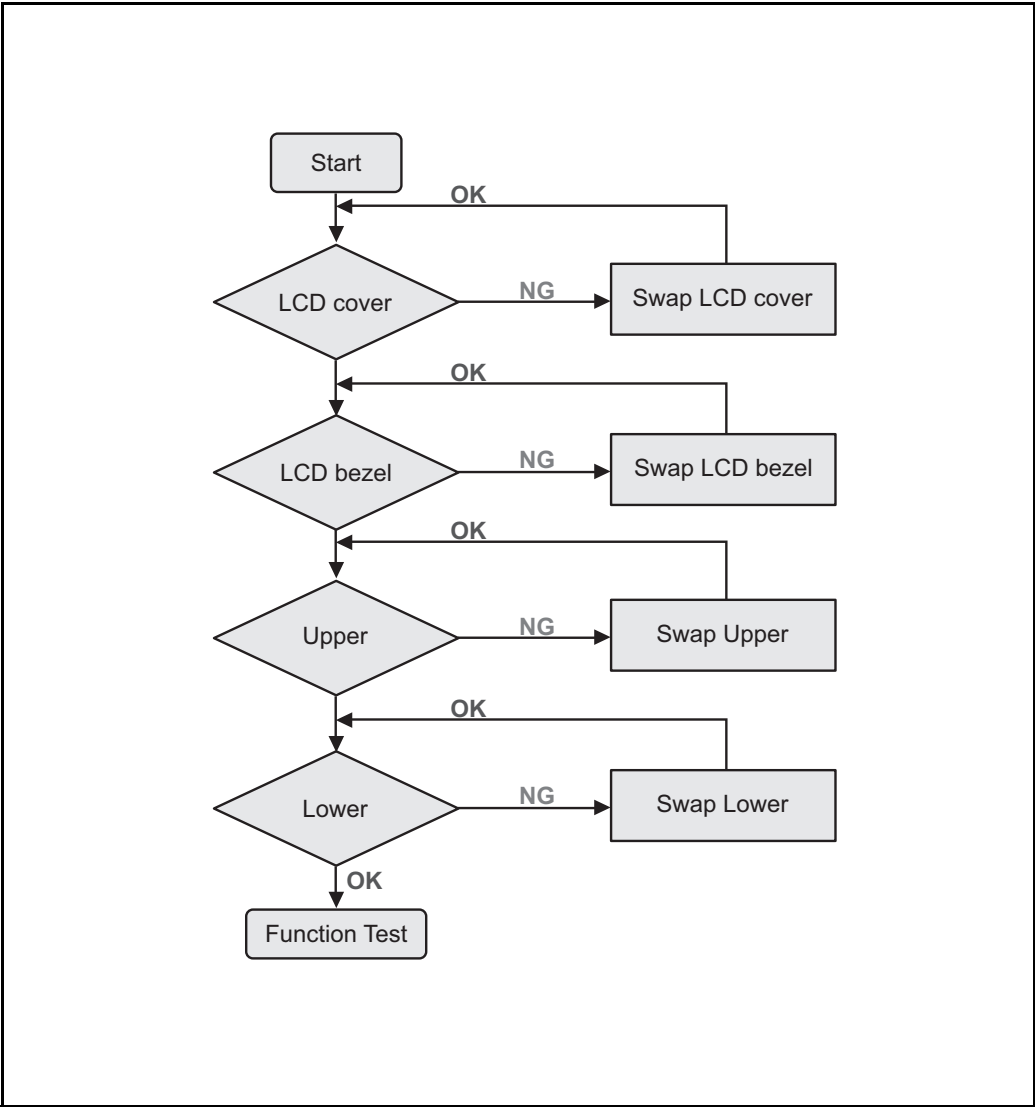


Figure 1-12. Cosmetic Failure

Other Functions Failure

If other functions such as the HDMI switch, extended speaker or microphone fails, or USB function fails, perform the following:

1. Check if the Drive is working properly.
2. Check if the test fixture is ok.
3. Swap the mainboard.

Random Loss of BIOS Settings

If the computer is experiencing intermittent loss of BIOS information, perform the following:

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up to date software to confirm the computer is virus free.
3. If the computer is experiencing HDD information loss, disconnect and reconnect the power.
4. If the BIOS settings are still lost, replace the cables.
5. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
6. Replace the mainboard.
7. If the Issue is still not resolved, please contact Acer local service.

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.

⇒ NOTE:

- Verify that all attached devices are supported by the computer.
- Verify that the power supply being used at the time of the failure is operating correctly. (refer to [Power On Issues](#) on page 1-54).

Perform the following procedures to isolate the failing FRU:

1. Remove power from the computer.
2. Visually check FRUs 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
 - Hard disk drive
 - DIMM
 - 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 until failing FRU is found.
7. If the problem remains, replace the following:
 - System board
 - LCD assembly

Exploded Diagrams

Main Assembly

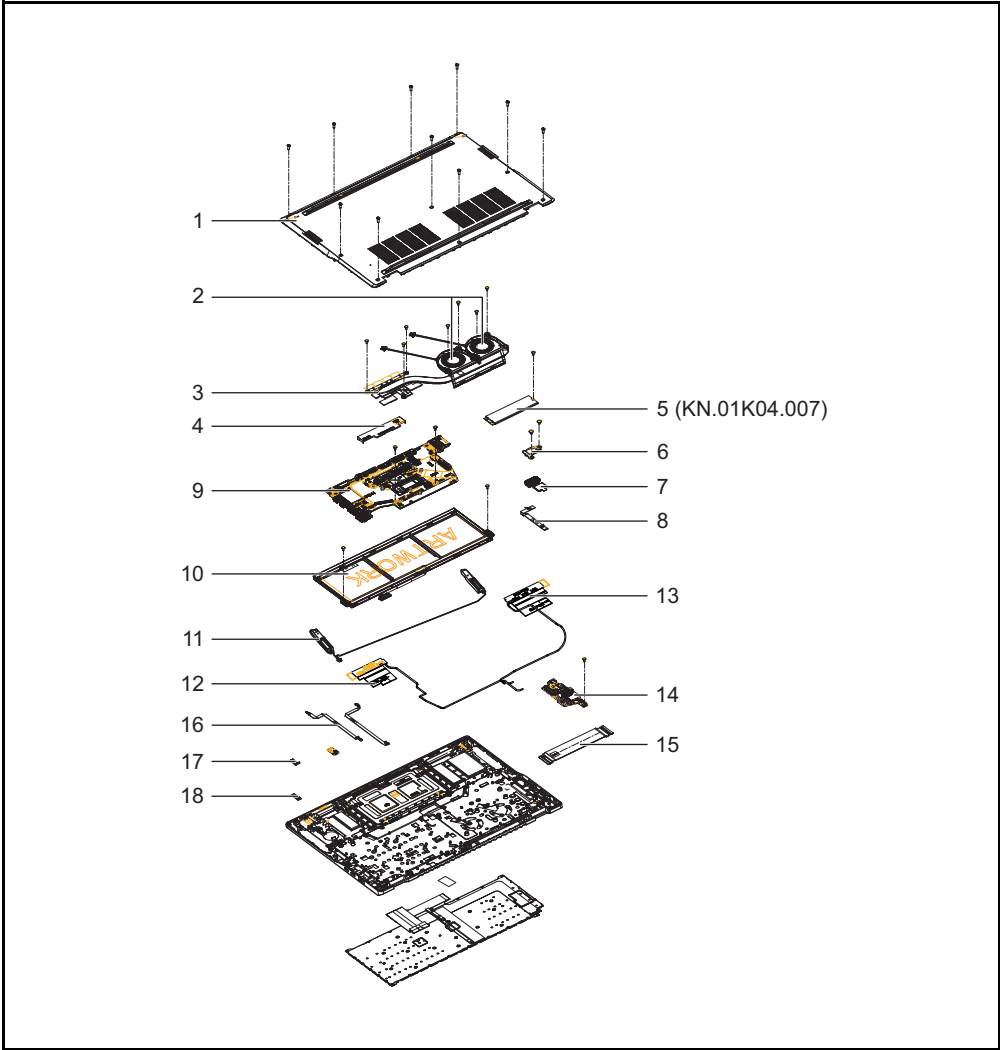


Figure 1-1. Main Assembly Exploded Diagram

Table 1-7. Main Assembly Exploded Diagram

No.	Acer Description
1	LOWER CASE AL GRAY
2	FAN
3	THERMAL MODULE
4	DDR SHIELDING
5	Flash Disk MICRON SSD NAND 1024GB Micron 2550 1024GB MTFDKBA1T0TGE-1BK15ABYY LF+HF

No.	Acer Description
6	BRACKET FINGERPRINT
7	Elan FP on power key LCC-2447-21 Elan LCC-2447-21 on power key.Steel Gray coating.Module maker: Ofilm
8	FFC FINGERPRINT
9	Mainboard SF14-11 Qualcomm Hamoa X1P-64100 UMA 16G QHD Flat type panel
10	Battery PANASONIC Typ.53Wh 4590mAh 3S1P AP23A5L 248x84.4x5.5(mm) AP23A 11.55V 70W Polymer
11	SPEAKER L + R
12	ANTENNA WLAN MAIN
13	ANTENNA WLAN AUX
14	BOARD IO
15	FFC IO BOARD
16	FFC 3RD MIC BOARD
17	MIC RUBBER FOR TOUCH GLASS SKU
18	BOARD 3RD MIC

Upper Case Assembly

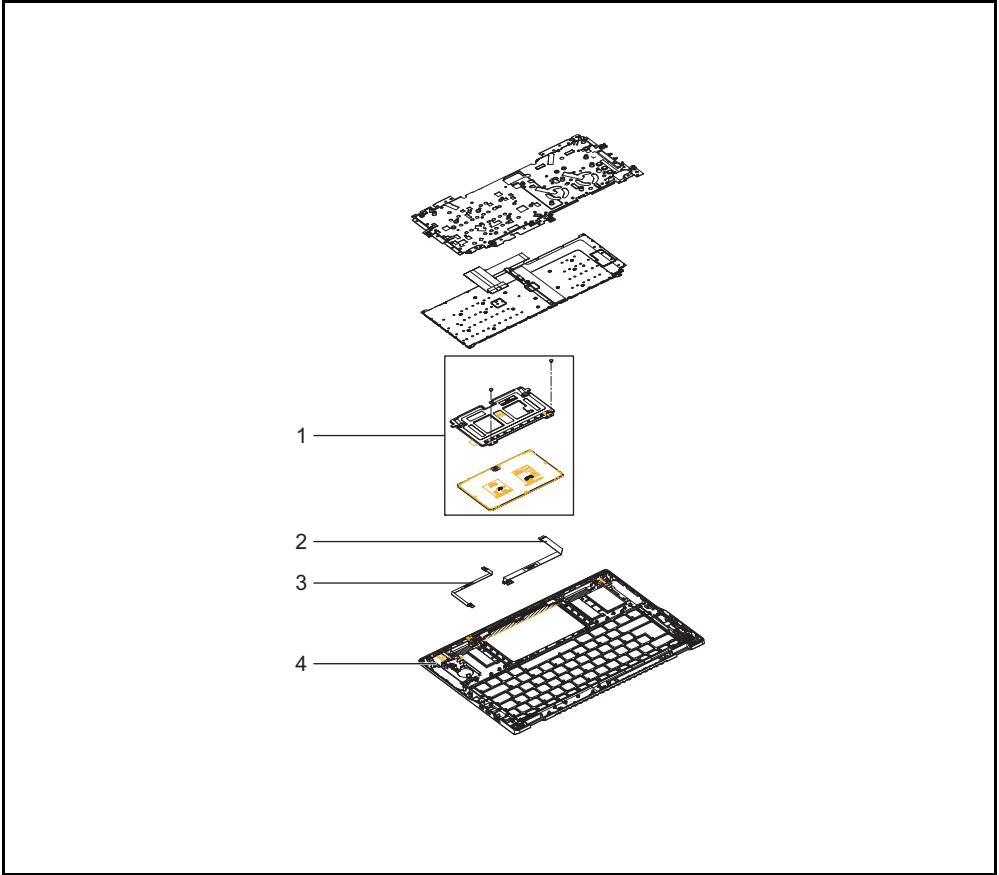


Figure 1-2. Upper Case Assembly Exploded Diagram

Table 1-8. Upper Case Assembly Exploded Diagram

No.	Acer Description
1	TOUCHPAD ASSY GRAY - CHICONY NC.24611.0B4
2	FFC TOUCHPAD
3	FFC TOUCHPAD LIGHTING
4	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International (NK.I1313.3D0, NK.I131B.0CP)

LCD Assembly

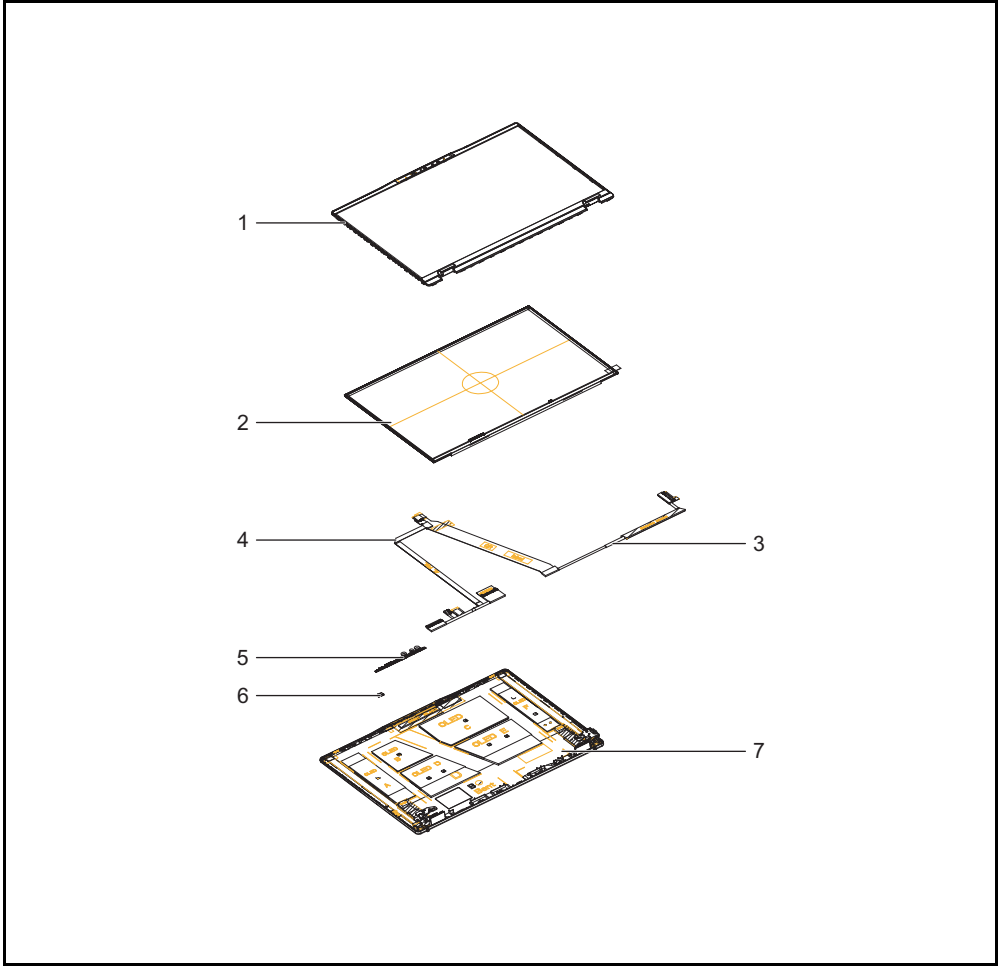


Figure 1-3. LCD Assembly Exploded Diagram (Bent Type)

Table 1-9. LCD Assembly Exploded Diagram (Bent Type)

No.	Acer Description
1	LCD BEZEL BENT
2	LCD MODULE GLASS ASSY W/ FRAME LCD N14.5WQGSSRIB3YS/TP1N3 KL.1450H.002
3	CABLE MIPI BENT
4	EDP CABLE BENT
5	Camera Tech-Front QHD FF YHEE OV05C (COB) DS41091N(BG) ZTS6534SA MIPI IR-HM1092(940nm) , HDR (Qualcomm)
6	BRACKET MIPI CAMERA
7	LCD COVER AL BENT

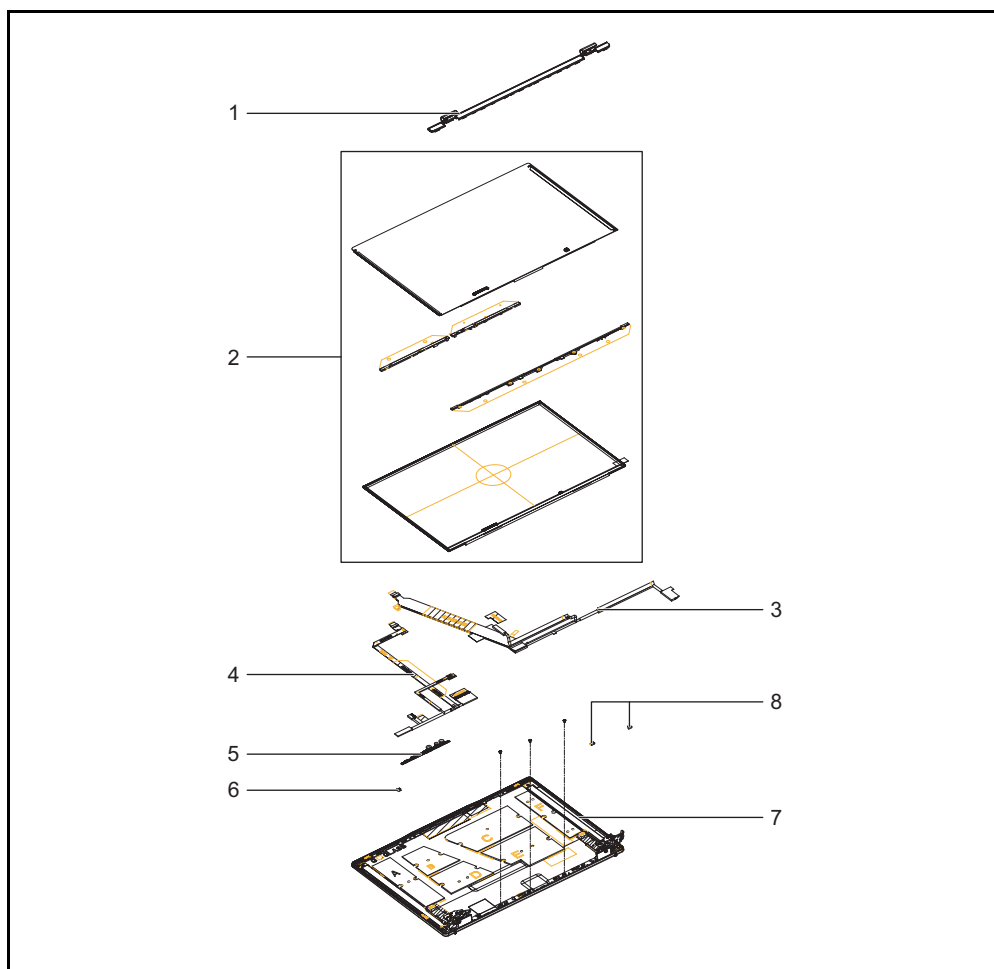


Figure 1-4. LCD Assembly Exploded Diagram (Bent Type Glass)

Table 1-10. LCD Assembly Exploded Diagram (Bent Type Glass)

No.	Acer Description
1	LCD STRIP BEZEL BENT TOUCH
2	LCD MODULE GLASS ASSY W/ FRAME LCD N14.5WQGSSRIB3YS/TP1N3 KL.1450H.002
3	CABLE MIPI BENT TOUCH
4	EDP CALBLE BENT TOUCH
5	Camera Tech-Front QHD FF YHEE OV05C (COB) DS41091N(BG) ZTS6534SA MIPI IR-HM1092(940nm) , HDR (Qualcomm)
6	BRACKET MIPI CAMERA
7	LCD COVER AL BENT TOUCH

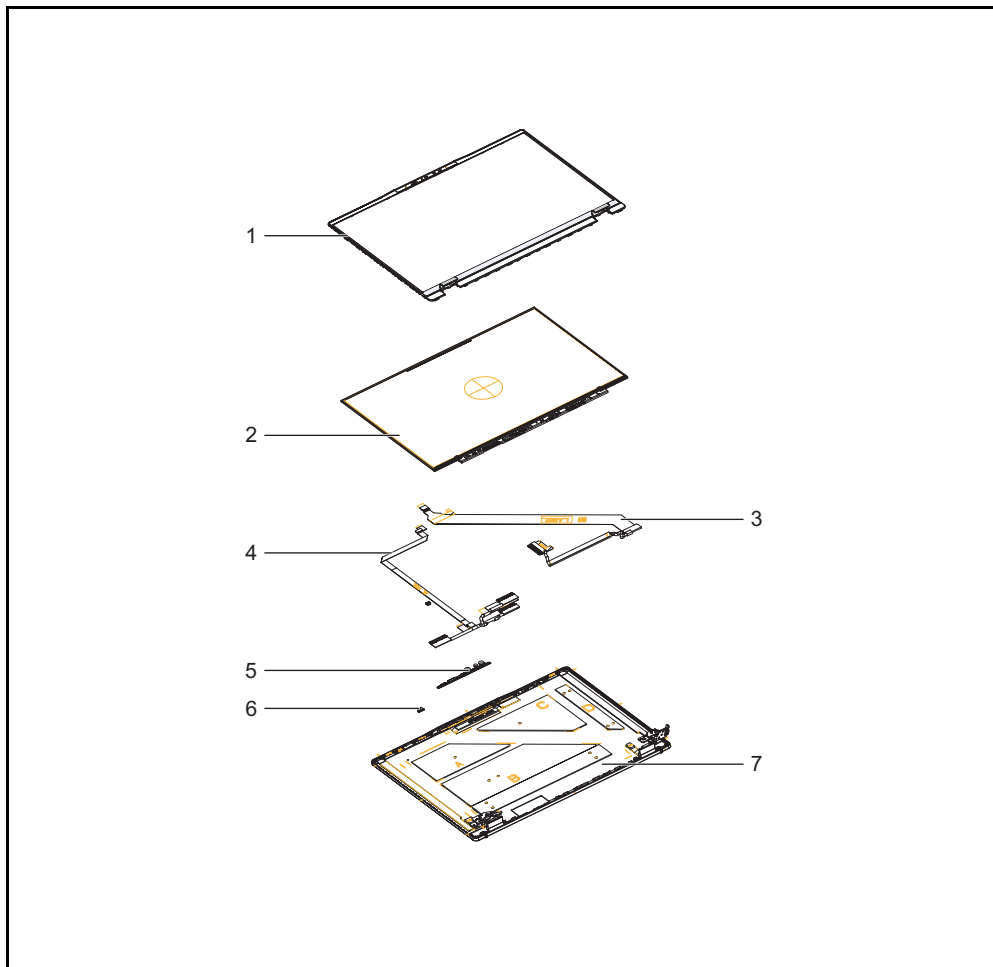


Figure 1-5. LCD Assembly Exploded Diagram (Flat Type)

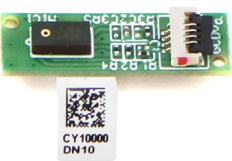
Table 1-11. LCD Assembly Exploded Diagram (Flat Type)

No.	Acer Description
1	LCD BEZEL FLAT
2	LCD MODULE GLASS ASSY W/ FRAME LCD N14.5WQGSSRIB3YS/TP1N3 KL.1450H.002
3	CABLE MIPI FLAT
4	EDP CABLE FLAT
5	Camera Tech-Front QHD FF YHEE OV05C (COB) DS41091N(BG) ZTS6534SA MIPI IR-HM1092(940nm) , HDR (Qualcomm)
6	BRACKET MIPI CAMERA
7	LCD COVER AL FLAT

FRU (Field Replaceable Unit) List

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

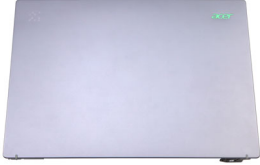
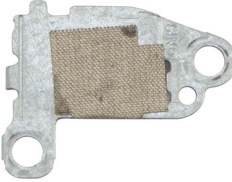
Table 1-12. FRU List

Category	Acer Description
ADAPTER	
	Adapter LITE-ON PA-1650-58AP 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black PCR 50%, TCO9.0
	Adapter Chicony Power A065RP86P 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black PCR 50%, TCO9.0
	Adapter DELTA ADP-65WW CA 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black EU TYPE
	Adapter Chicony Power W065RP73P 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black EU TYPE, PCR50%
	Adapter DELTA ADP-65WW DA 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black UK TYPE
	Adapter Chicony Power W065RP74P 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black UK TYPE, PCR50%
	Adapter DELTA ADP-65WW BA 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black US TYPE
	Adapter Chicony Power W065RP72P 65W Type C Wallmount 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25A Black US TYPE, PCR50%
BATTERY	
	Battery PANASONIC Typ.53Wh 4590mAh 3S1P AP23A5L 248x84.4x5.5(mm) AP23A 11.55V 70W Polymer
	Battery CosMx Typ.65Wh 5570mAh 3S1P AP22ABN 248x90x5.5(mm) AP22A 11.67V 75W Li-Ion with SMT type connector
	Battery SIMPLO Typ.75Wh 6430mAh 3S1P AP23B7Q 248x90x6.1(mm) AP23B 11.67V 75W Li-Ion TI BQ40Z555 FW5.09 with SMT type connector
BOARD	
	BOARD IO
	BOARD HALL SENSOR
	BOARD 3RD MIC

Category	Acer Description
	Elan FP on power key LCC-2447-21 Elan LCC-2447-21 on power key.Steel Gray coating.Module maker: Ofilm
	Egis FP on power key Egis ETU905JS-SF2DG MOC solution on power key.Steel Gray
	Elan FP on power key LCC-2447-20 Elan LCC-2447-20 MOC on power key.Black coating.2.4N.Module maker: Ofilm
	Egis FP on power key Egis ETU905JS MOC solution on power key. Black coating.
CABLE	
	FFC IO BOARD
	FFC HALL SENSOR BOARD
	FFC 3RD MIC BOARD
	FFC TOUCHPAD
	FFC TOUCHPAD LIGHTING
	FFC FINGERPRINT

Category	Acer Description
	CABLE BATTERY
	CABLE MIPI BENT
	CABLE MIPI BENT TOUCH
	CABLE MIPI FLAT
	POWER CORD 1M BLACK SOUTH AFRICA -NEW
	POWER CORD 1M BLACK BLACK AUSTRALIA
	POWER CORD 1M BLACK EUROPE
	POWER CORD 1M BLACK DENMARK
	POWER CORD 1M BLACK ISRAEL
	POWER CORD 1M BLACK ITALIAN
	POWER CORD 1M BLACK JAPAN
	POWER CORD 1M BLACK CHINA
	POWER CORD 1M BLACK INDIA
	POWER CORD 1M BLACK SWISS
	POWER CORD 1M BLACK UK
	POWER CORD 1M BLACK TWN
	POWER CORD 1M BLACK ARGENTINA - NEW
	POWER CORD 1M BLACK KOREA
	POWER CORD 1M BLACK US
	POWER CORD 1M BLACK BRAZIL

Category	Acer Description
	ANTENNA WLAN MAIN
	ANTENNA WLAN AUX
	EDP CABLE BENT
	EDP CALBLE BENT TOUCH
	EDP CABLE FLAT
	IR CABLE BENT
	IR CABLE BENT TOUCH
	IR CABLE FLAT
CAMERA	
	Camera Tech-Front QHD FF YHEE OV05C (COB) DS41091N(BG) ZTS6534SA MIPI IR-HM1092(940nm) , HDR (Qualcomm)
	Camera CHICONY QHD FF CKFNE79 OV05C10 (COB) RTS5867 DS-41091N(w/BG) ZTS6534SA USB IR-HM1092(940nm),HDR
	Camera CHICONY QHD FF CKFNE79-1 OV05C10 (COB) RTS5867 DS-41091N(w/BG) ZTS6534SA USB IR-HM1092(940nm),HDR.Qualcomm
CASE/COVER/BRACKET ASSEMBLY	
	LOWER CASE AL GRAY
	LCD COVER AL BENT

Category	Acer Description
	LCD COVER AL BENT TOUCH
	LCD COVER AL FLAT
	LCD BEZEL BENT
	LCD STRIP BEZEL BENT TOUCH
	LCD BEZEL FLAT
	BRACKET USB CAMERA
	BRACKET MIPI CAMERA
	BRACKET FINGERPRINT
	DDR SHIELDING
FAN	
	FAN
HDD	
	Flash Disk MICRON SSD NAND 1024GB Micron 2550 1024GB MTFDKBA1T0TGE-1BK15ABYY LF+HF
	Flash Disk WD SSD NAND 1024GB SN5000S SDEQNSJ-1T00-1014 LF+HF
	Flash Disk MICRON SSD NAND 512GB Micron 2550 512GB MTFDKBA512TGE-1BK15ABYY LF+HF

Category	Acer Description
	Flash Disk WD SSD NAND 512GB SN5000S SDEQNSJ-512G-1014 LF+HF
HEATSINK	
	THERMAL MODULE
KEYBOARD ASSEMBLY	
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International (NK.I1313.3D0, NK.I131B.0CP)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Greek (NK.I1313.3CU, NK.I131B.0CH)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Arabic (NK.I1313.3CS, NK.I131B.0CF)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Traditional Chinese (NK.I1313.3CT, NK.I131B.0CG)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Russian (NK.I1313.3CW, NK.I131B.0CK)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Hebrew (NK.I1313.3D1, NK.I131B.0CQ)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Thailand (NK.I1313.3CZ, NK.I131B.0CN)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Korean (NK.I1313.3CV, NK.I131B.0CJ)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Ukrainian (NK.I1313.3CX, NK.I131B.0CL)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Persian (NK.I1313.3CY, NK.I131B.0CM)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Canadian French (NK.I1313.3D2, NK.I131B.0CR)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Bulgaria (NK.I1313.3D3, NK.I131B.0CS)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL UK (NK.I1313.3DN, NK.I131B.0DB)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL German (NK.I1313.3DB, NK.I131B.0D0)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Swiss/G (NK.I1313.3DL, NK.I131B.0D9)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Belgium (NK.I1313.3D5, NK.I131B.0CU)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Danish (NK.I1313.3D8, NK.I131B.0CX)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Italian (NK.I1313.3DD, NK.I131B.0D2)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL French (NK.I1313.3DA, NK.I131B.0CZ)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Hungarian (NK.I1313.3DC, NK.I131B.0D1)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Norwegian (NK.I1313.3DF, NK.I131B.0D4)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Portuguese (NK.I1313.3DG, NK.I131B.0D5)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Spanish (NK.I1313.3DJ, NK.I131B.0D7)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Turkish (NK.I1313.3DM, NK.I131B.0DA)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Sweden (NK.I1313.3DK, NK.I131B.0D8)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL FR/Arabic (NK.I1313.3D9, NK.I131B.0CY)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Nordic (NK.I1313.3DE, NK.I131B.0D3)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL SLO/CRO (NK.I1313.3DH, NK.I131B.0D6)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL CZ/SK (NK.I1313.3D7, NK.I131B.0CW)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Brazilian Portuguese (NK.I1313.3D6, NK.I131B.0CV)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL ALA-Spanish (NK.I1313.3D4, NK.I131B.0CT)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Japanese (NK.I1313.3DP)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International (NK.I1313.389, NK.I131B.09S)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Greek (NK.I1313.383, NK.I131B.09L)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Arabic (NK.I1313.381, NK.I131B.09J)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Traditional Chinese (NK.I1313.382, NK.I131B.09K)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Russian (NK.I1313.385, NK.I131B.09N)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Hebrew (NK.I1313.38A, NK.I131B.09T)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Thailand (NK.I1313.388, NK.I131B.09R)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Korean (NK.I1313.384, NK.I131B.09M)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Ukrainian (NK.I1313.386, NK.I131B.09P)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Persian (NK.I1313.387, NK.I131B.09Q)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Canadian French (NK.I1313.38B, NK.I131B.09U)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Bulgaria (NK.I1313.38C, NK.I131B.09V)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL UK (NK.I1313.38X, NK.I131B.0AE)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL German (NK.I1313.38L, NK.I131B.0A3)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Swiss/G (NK.I1313.38V, NK.I131B.0AC)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Belgium (NK.I1313.38E, NK.I131B.09X)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Danish (NK.I1313.38H, NK.I131B.0A0)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Italian (NK.I1313.38N, NK.I131B.0A5)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL French (NK.I1313.38K, NK.I131B.0A2)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Hungarian (NK.I1313.38M, NK.I131B.0A4)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Norwegian (NK.I1313.38Q, NK.I131B.0A7)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Portuguese (NK.I1313.38R, NK.I131B.0A8)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Spanish (NK.I1313.38T, NK.I131B.0AA)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Turkish (NK.I1313.38W, NK.I131B.0AD)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Sweden (NK.I1313.38U, NK.I131B.0AB)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL FR/Arabic (NK.I1313.38J, NK.I131B.0A1)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Nordic (NK.I1313.38P, NK.I131B.0A6)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL SLO/CRO (NK.I1313.38S, NK.I131B.0A9)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL CZ/SK (NK.I1313.38G, NK.I131B.09Z)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Brazilian Portuguese (NK.I1313.38F, NK.I131B.09Y)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL ALA-Spanish (NK.I1313.38D, NK.I131B.09W)
	KEYBOARD ASSY GRAY AL FOR 53WH & 65WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Japanese (NK.I1313.38Y)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International (NK.I1313.3D0, NK.I131B.0CP)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Greek (NK.I1313.3CU, NK.I131B.0CH)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Arabic (NK.I1313.3CS, NK.I131B.0CF)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Traditional Chinese (NK.I1313.3CT, NK.I131B.0CG)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Russian (NK.I1313.3CW, NK.I131B.0CK)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Hebrew (NK.I1313.3D1, NK.I131B.0CQ)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Thailand (NK.I1313.3CZ, NK.I131B.0CN)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Korean (NK.I1313.3CV, NK.I131B.0CJ)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Ukrainian (NK.I1313.3CX, NK.I131B.0CL)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Persian (NK.I1313.3CY, NK.I131B.0CM)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Canadian French (NK.I1313.3D2, NK.I131B.0CR)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL US International w/ Bulgaria (NK.I1313.3D3, NK.I131B.0CS)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL UK (NK.I1313.3DN, NK.I131B.0DB)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL German (NK.I1313.3DB, NK.I131B.0D0)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Swiss/G (NK.I1313.3DL, NK.I131B.0D9)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Belgium (NK.I1313.3D5, NK.I131B.0CU)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Danish (NK.I1313.3D8, NK.I131B.0CX)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Italian (NK.I1313.3DD, NK.I131B.0D2)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL French (NK.I1313.3DA, NK.I131B.0CZ)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Hungarian (NK.I1313.3DC, NK.I131B.0D1)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Norwegian (NK.I1313.3DF, NK.I131B.0D4)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Portuguese (NK.I1313.3DG, NK.I131B.0D5)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Spanish (NK.I1313.3DJ, NK.I131B.0D7)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Turkish (NK.I1313.3DM, NK.I131B.0DA)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Sweden (NK.I1313.3DK, NK.I131B.0D8)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL FR/Arabic (NK.I1313.3D9, NK.I131B.0CY)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Nordic (NK.I1313.3DE, NK.I131B.0D3)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL SLO/CRO (NK.I1313.3DH, NK.I131B.0D6)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL CZ/SK (NK.I1313.3D7, NK.I131B.0CW)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Brazilian Portuguese (NK.I1313.3D6, NK.I131B.0CV)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL ALA-Spanish (NK.I1313.3D4, NK.I131B.0CT)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE GRAY BL KB QF03P_A41EWL Japanese (NK.I1313.3DP)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International (NK.I1313.389, NK.I131B.09S)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Greek (NK.I1313.383, NK.I131B.09L)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Arabic (NK.I1313.381, NK.I131B.09J)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Traditional Chinese (NK.I1313.382, NK.I131B.09K)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Russian (NK.I1313.385, NK.I131B.09N)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Hebrew (NK.I1313.38A, NK.I131B.09T)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Thailand (NK.I1313.388, NK.I131B.09R)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Korean (NK.I1313.384, NK.I131B.09M)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Ukrainian (NK.I1313.386, NK.I131B.09P)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Persian (NK.I1313.387, NK.I131B.09Q)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Canadian French (NK.I1313.38B, NK.I131B.09U)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL US International w/ Bulgaria (NK.I1313.38C, NK.I131B.09V)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL UK (NK.I1313.38X, NK.I131B.0AE)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL German (NK.I1313.38L, NK.I131B.0A3)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Swiss/G (NK.I1313.38V, NK.I131B.0AC)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Belgium (NK.I1313.38E, NK.I131B.09X)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Danish (NK.I1313.38H, NK.I131B.0A0)

Category	Acer Description
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Italian (NK.I1313.38N, NK.I131B.0A5)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL French (NK.I1313.38K, NK.I131B.0A2)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Hungarian (NK.I1313.38M, NK.I131B.0A4)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Norwegian (NK.I1313.38Q, NK.I131B.0A7)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Portuguese (NK.I1313.38R, NK.I131B.0A8)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Spanish (NK.I1313.38T, NK.I131B.0AA)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Turkish (NK.I1313.38W, NK.I131B.0AD)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Sweden (NK.I1313.38U, NK.I131B.0AB)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL FR/Arabic (NK.I1313.38J, NK.I131B.0A1)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Nordic (NK.I1313.38P, NK.I131B.0A6)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL SLO/CRO (NK.I1313.38S, NK.I131B.0A9)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL CZ/SK (NK.I1313.38G, NK.I131B.09Z)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Brazilian Portuguese (NK.I1313.38F, NK.I131B.09Y)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL ALA-Spanish (NK.I1313.38D, NK.I131B.09W)
	KEYBOARD ASSY GRAY AL FOR 75WH BATTERY W/ UPPER CASE BLACK BL KB QF03P_A41BWL Japanese (NK.I1313.38Y)

Category	Acer Description
LCD TOUCH PANEL	
	LCD MODULE GLASS ASSY W/ FRAME LCD N14.5WQGSSRIB3YS/ TP1N3 KL.1450H.002
MAINBOARD	
	Mainboard SF14-11 Qualcomm Hamoa X1P-64100 UMA 16G QHD Flat type panel
	Mainboard SF14-11 Qualcomm Hamoa X1P-64100 UMA 32G QHD Flat type panel
	Mainboard SF14-11 Qualcomm Hamoa X1P-64100 UMA 16G QHD Glass Touch panel
	Mainboard SF14-11 Qualcomm Hamoa X1P-64100 UMA 32G QHD Glass Touch panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 16GB FHD panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 32G QHD panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 16G QHD Flat type panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 32G QHD Flat type panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 16G QHD Glass Touch panel
	Mainboard SF14-11 Qualcomm Hamoa X1E-78100 UMA 32G QHD Glass Touch panel
MEMORY MODULE	
	Mobile Memory MICRON LPDDR5X 8533 4GB MT62F1G32D2DS-023 WT:C LF+HF Y52P, 1b nm
	Mobile Memory SAMSUNG LPDDR5X 8533 4GB K3KL8L80DM-MGCU LF+HF 1anm, D die
	Mobile Memory HYNIX LPDDR5X 8533 4GB H58G56BK8BX068 LF+HF CP, 1anm
	Mobile Memory HYNIX LPDDR5X 8533 8GB H58G66BK8BX067 LF+HF CP, 1anm

Category	Acer Description
MISCELLANEOUS	
	MIC RUBBER FOR TOUCH GLASS SKU
	MYLAR SSD FOIL 2280
	LCD ADHESIVE BENT
	LCD ADHESIVE FLAT - R
	LCD ADHESIVE FLAT - L
	LCD ADHESIVE BENT TOUCH - R
	LCD ADHESIVE BENT TOUCH - L
	LCD ALIGNMENT MYLAR 10x5x0.4mm
POINT DEVICE	
	TOUCHPAD ASSY GRAY - CHICONY NC.24611.0B4
SPEAKERS	
	SPEAKER L + R
WLAN MODULE	
	Wireless LAN Foxconn Wi-Fi 7 BT5.4 WCN7851_NCM825A_DBS_SD Qualcomm 2x2DBC M.2 1620 SD PCIe

Screw List

Table 1-13. Screw List

Category	Description	Equipment
SCREWS		
	SCREW 2.0D 2.5L K 5D 0.5T NI NL	Philips #1 screwdriver
		Philips #1 screwdriver
	SCREW 2.5D 5.0L K 4.6D NI NL	Philips #0 screwdriver
	SCREW M M 2 2.0D 2L K 7D ZK NL CR3	Philips #1 screwdriver
	SCREW M M 2.0D 4.0L K 4.6D BNI NL	Philips #1 screwdriver
	SCREW 2.0D 6.0L K 4.0D 0.8T O NL	Torx T6 screwdriver
	SCREW 2.0D 3.0L K 4.0D 0.5T NI NL	Philips #1 screwdriver

Software Update

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

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.

Personal Data Removal

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**.