

Acer Chromebook
C725/C725-TCO/
C725T/C725T-TCO
Jye_89

LIFECYCLE EXTENSION GUIDE

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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
- Touchpad module
- Mainboard
- USB board
- Audio board
- 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 the power adapter from the USB Type-C port (A or B) as shown in [Figure 1-1](#) or [Figure 1-2](#).
3. Remove all cables from the system.



Figure 1-1. Adapter Outlet

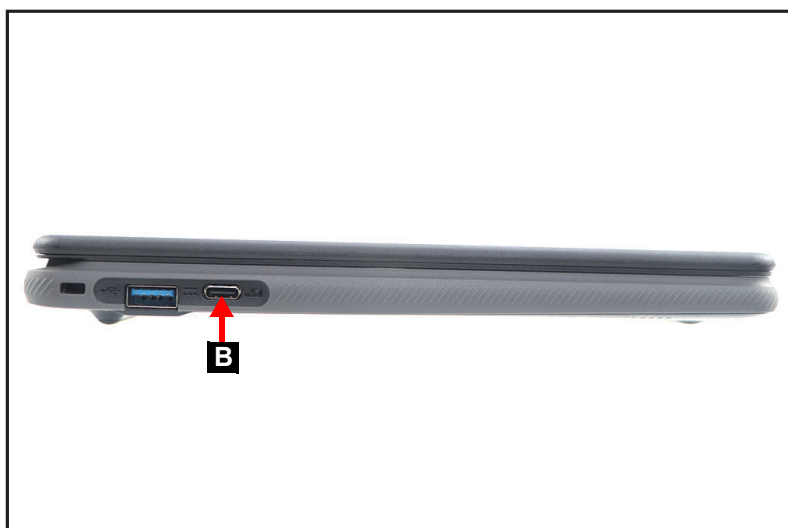


Figure 1-2. Adapter Outlet

4. Remove all cables from the system.

⇒ NOTE:

Make sure the system is completely powered off.

Base Cover Removal

1. Loosen nine (9) screws from the base cover. Then remove another two (2) screws securing the keyboard (Figure 1-3).



Figure 1-3. Base Cover Removal

2. Starting from the bottom-left edge, carefully pry up the base cover to release the bottom side latches. Then continue releasing the remaining latches (Figure 1-4).

+ **IMPORTANT:**

Release the latches in numerical order from one (1) to three (3) in order to disengage the base cover from the top assembly as shown in Figure 1-4.



Figure 1-4. Base Cover Removal

3. Grasp and remove the base cover from the system ([Figure 1-5](#)).



Figure 1-5. Base Cover Removal

Battery Pack Removal

Prerequisite:

Base Cover Removal

1. Detach the tape (A) securing the battery cable connection (Figure 1-6).

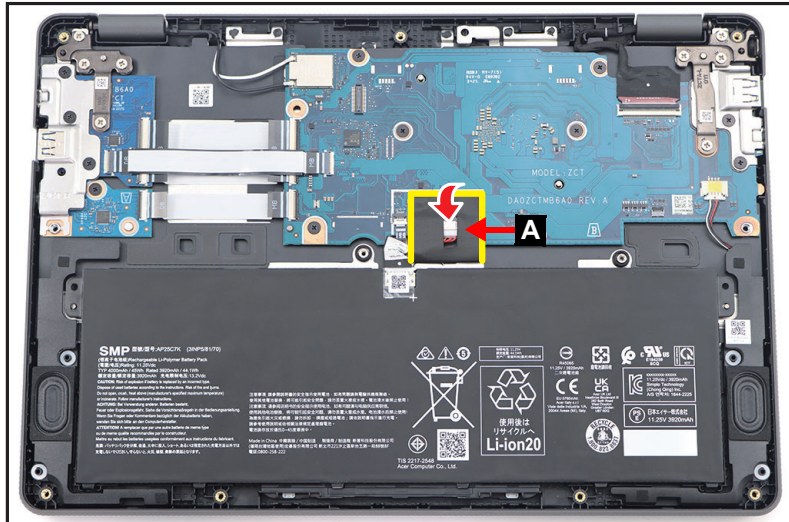


Figure 1-6. Battery Pack Removal

2. Disconnect the battery cable from the mainboard connector (B) (Figure 1-7).

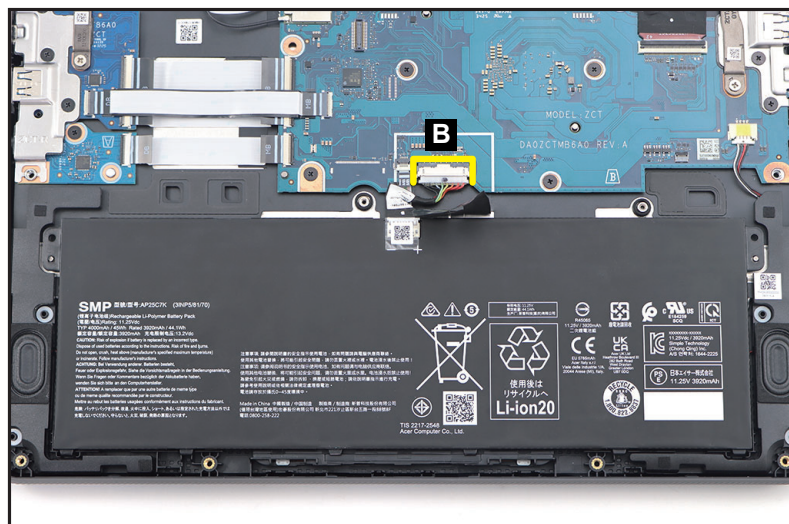


Figure 1-7. Battery Pack Removal

3. Lift to release the battery pack (C) from the guide pins (D) (Figure 1-8). Then remove the battery pack from the top assembly.

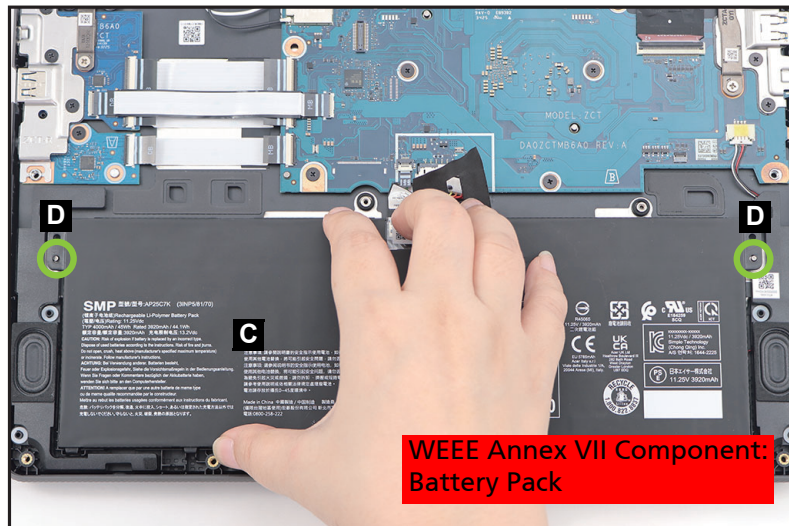


Figure 1-8. Battery Pack Removal

4. Detach the mylar (E) securing the battery cable in place (Figure 1-9).



Figure 1-9. Battery Pack Removal

5. Disconnect the battery cable from the battery connector (F) ([Figure 1-10](#)). Then remove the battery cable.

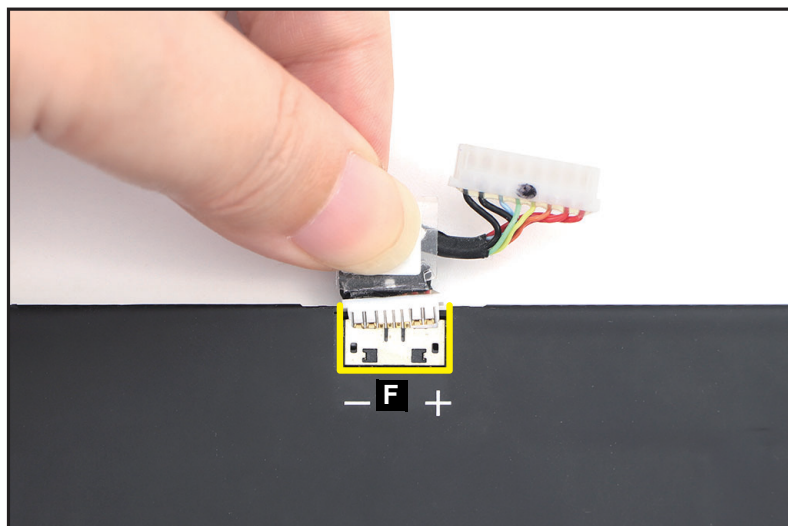


Figure 1-10. Battery Pack Removal

- + **IMPORTANT:**
Follow local regulations for battery disposal.

Touchpad Module Removal

Prerequisite:

Battery Pack Removal

1. Unroute the speaker cable (A) from the cable guides as shown in [Figure 1-11](#).

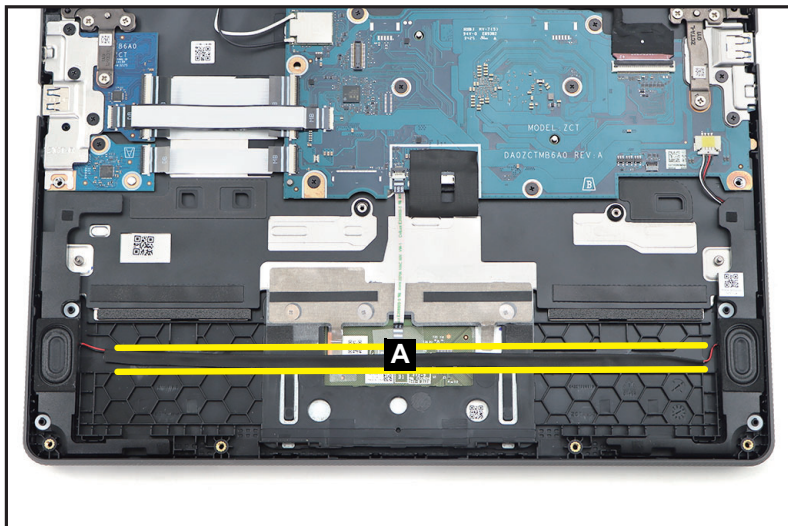


Figure 1-11. Touchpad Module Removal

2. Lift the right speaker (B) to release it from the guide pins (C) ([Figure 1-12](#)). Then place the speaker aside.

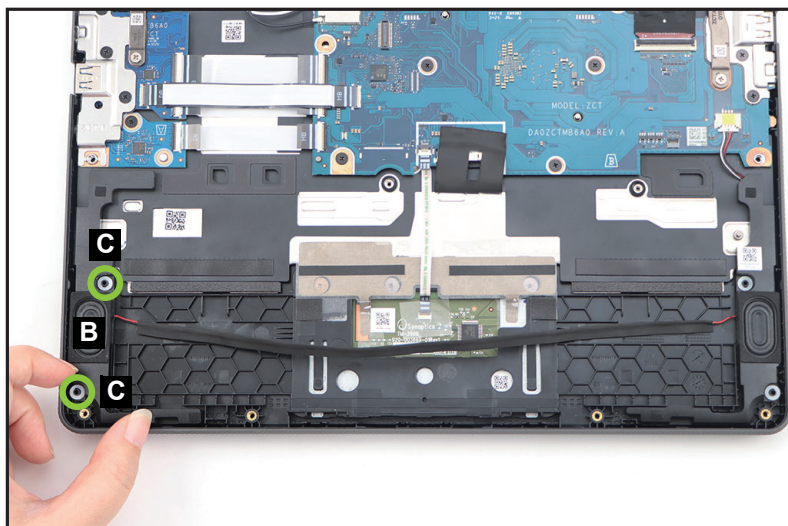


Figure 1-12. Touchpad Module Removal

3. Detach the mylar (D) securing the touchpad FFC connection (Figure 1-13).

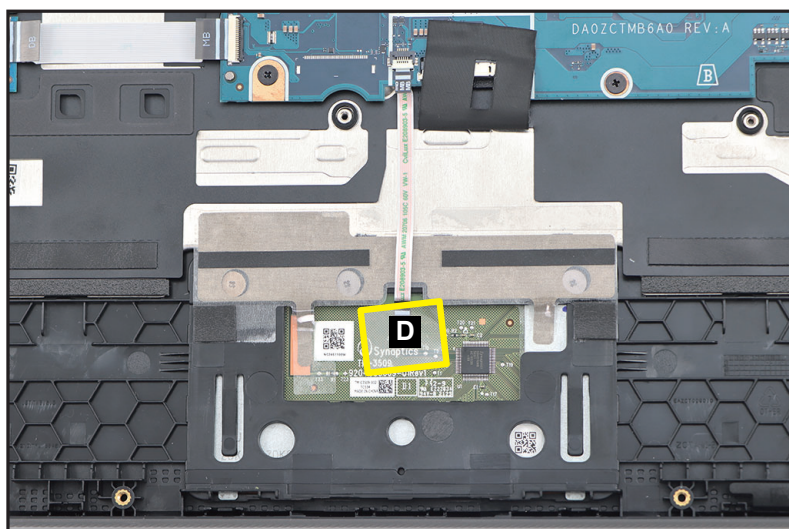


Figure 1-13. Touchpad Module Removal

4. Disconnect the touchpad FFC (E) from the touchpad module and mainboard connectors. Then carefully detach the touchpad FFC from its underneath adhesive (highlighted with the yellow lines) (Figure 1-14). Remove the touchpad FFC.

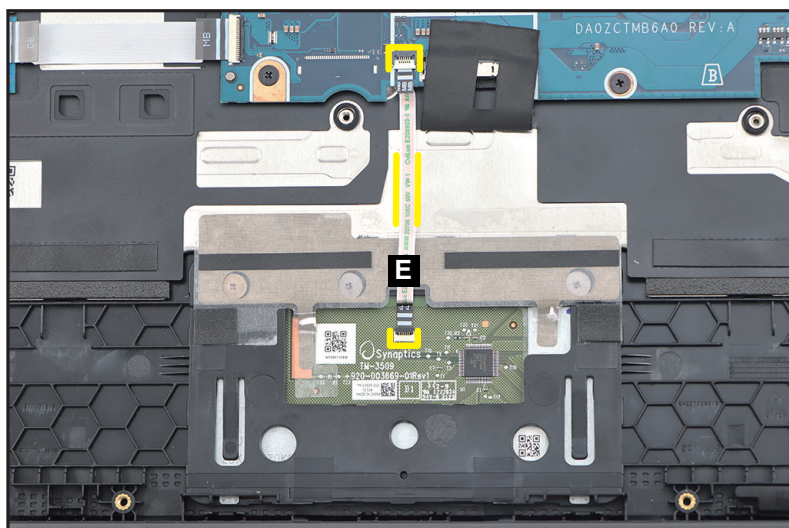


Figure 1-14. Touchpad Module Removal

⚠ CAUTION:

Touchpad FFC (Flexible Flat Circuit) can be damaged if removed while the mainboard and touchpad module connectors are locked.

5. Gently peel off the conductive tape with mylar (F) from the touchpad module and top assembly (Figure 1-15).

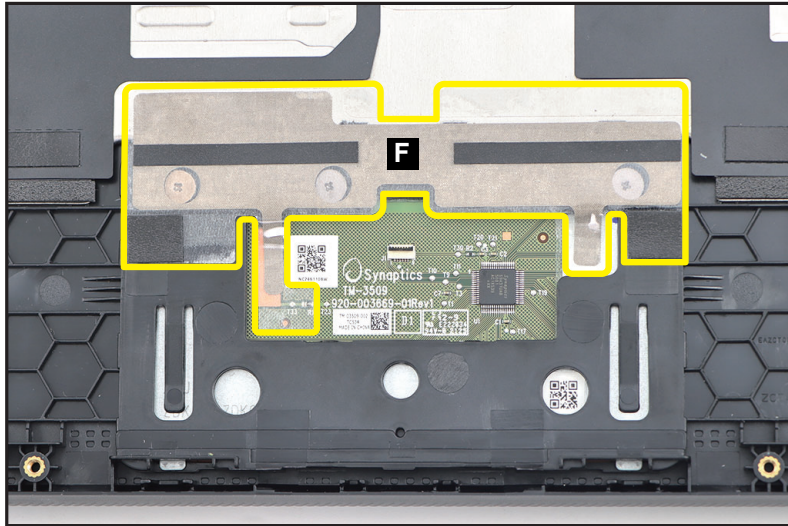


Figure 1-15. Touchpad Module Removal

6. Remove three (3) screws securing the touchpad module (Figure 1-16).

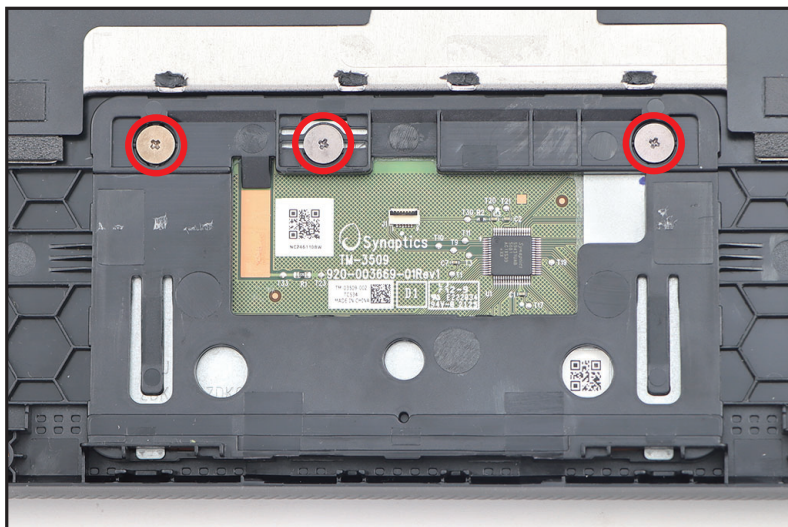


Figure 1-16. Touchpad Module Removal

7. Using the screwdriver, push the guide pins (G) firmly to release them from the top assembly (Figure 1-17).
8. Slide the touchpad module (H) slightly to disengage it from the bottom latches (I), and then remove the touchpad module from the top assembly (Figure 1-17).

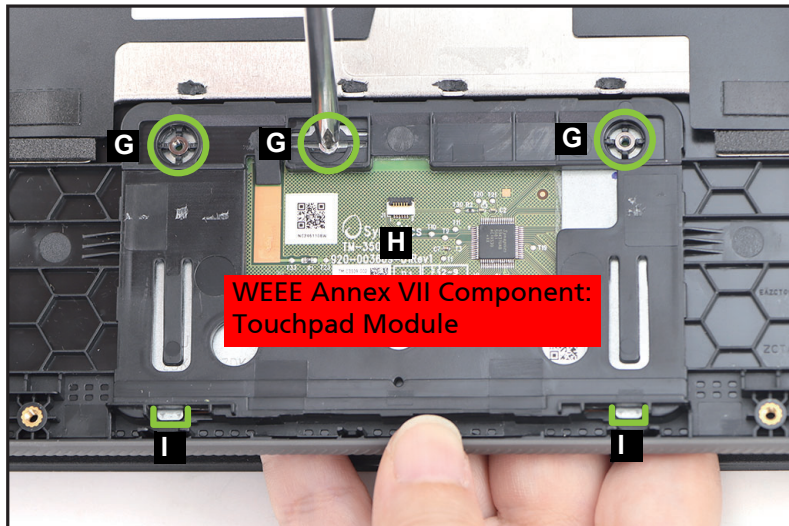


Figure 1-17. Touchpad Module Removal

Keyboard Removal

Prerequisite:

Battery Pack Removal

Disconnect the power source, and then enter the **Shipping Mode** by the following SOP if the **Refresh** ⌂ and **Power** ⏻ keys remain work.

1. Hold the **Refresh** ⌂ and **Power** ⏻ keys at the same time.
2. While holding these keys, remove the power cable from the device and then release the keys. The device should shut down and remain off.
3. Verify that the battery has been properly disconnected by the pressing the **Power** key. The device should not be powered on.

If the keyboard keys fail to function to enable the **Shipping Mode**, remove the battery pack to disconnect the power source.

Attention!

Before removing or installing the keyboard, **make sure to complete the Power Down Procedure** (Enter **Shipping Mode** SOP) to avoid damaging the Chromebook.

1. Carefully flip the top assembly and place it on the surface with the keyboard side facing up (Figure 1-18).
2. Using a flat-headed tool, carefully pry to disengage the bottom side latches of the keyboard (A) as shown in Figure 1-18.



Figure 1-18. Keyboard Removal

3. Carefully lift the bottom part of the keyboard to release it from the top assembly (Figure 1-19). The upper latches will automatically disengage as you release the keyboard.



Figure 1-19. Keyboard Removal

4. Detach the tape (B) securing the keyboard FPC connection (Figure 1-20).

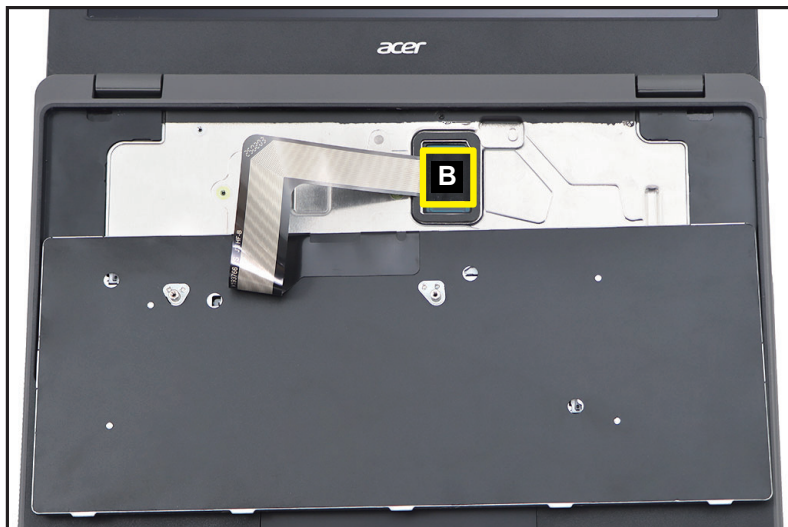


Figure 1-20. Keyboard Removal

5. Disconnect the keyboard FPC from the mainboard connector (C) (Figure 1-21). Then remove the keyboard.



Figure 1-21. Keyboard Removal

⚠ CAUTION:

Keyboard FPC (Flexible Printed Circuit) can be damaged if removed while the mainboard connector is locked.

LCD Module Removal

Prerequisite:

[Battery Pack Removal](#)

⇒ NOTE:

Please take note that the LCD cable includes the LCD panel cable and camera cable.

1. Disconnect the WLAN antennas cables from the WLAN module connectors (A). Then unroute the antennas cables from the cable guides as shown in [Figure 1-22](#).

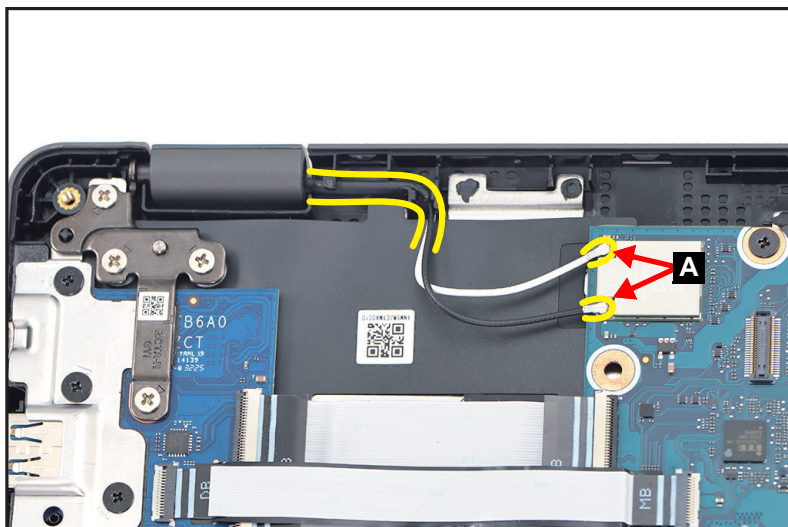


Figure 1-22. LCD Module Removal

2. Disconnect the LCD cable from the mainboard connector (B). Then unroute the cable from the cable guides as shown in [Figure 1-23](#).

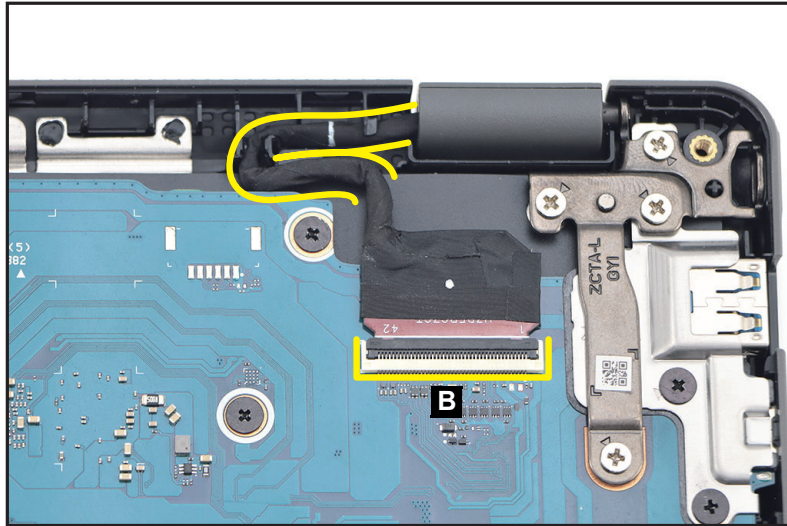


Figure 1-23. LCD Module Removal

3. Remove eight (8) screws securing the LCD hinges ([Figure 1-24](#)).

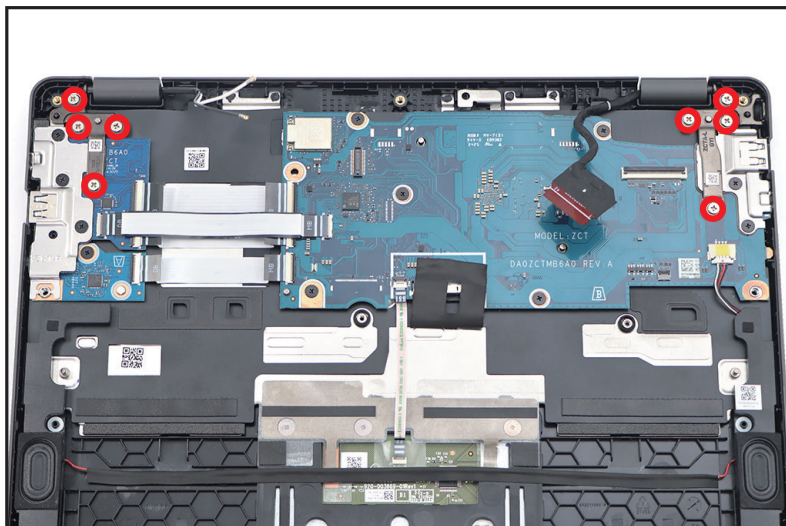


Figure 1-24. LCD Module Removal

4. Lift the top assembly until it is fully open ([Figure 1-25](#)).

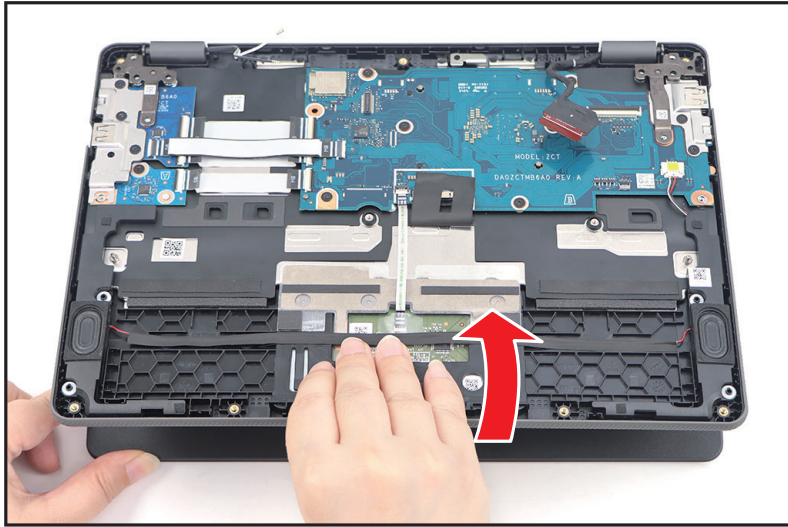


Figure 1-25. LCD Module Removal

5. Close the top assembly and lift both LCD hinges until they are fully extended ([Figure 1-26](#)).

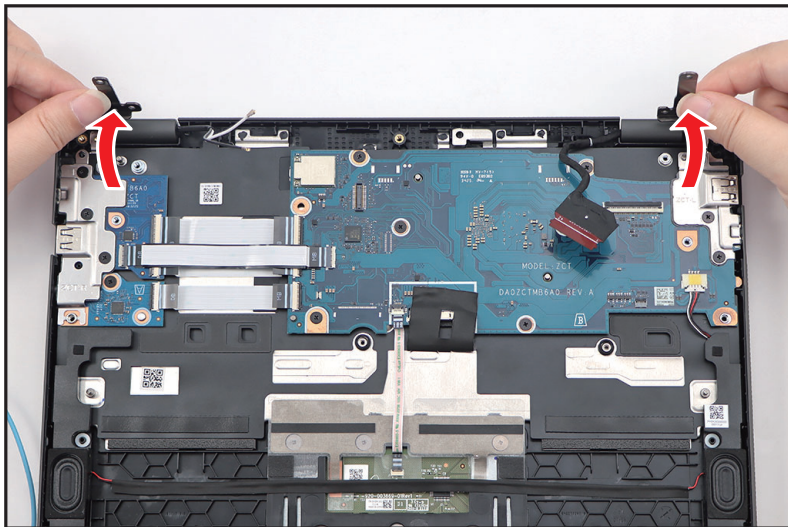


Figure 1-26. LCD Module Removal

6. Open the top assembly again. Then remove the LCD module (C) away from the top assembly (Figure 1-27).

⚠ CAUTION:

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

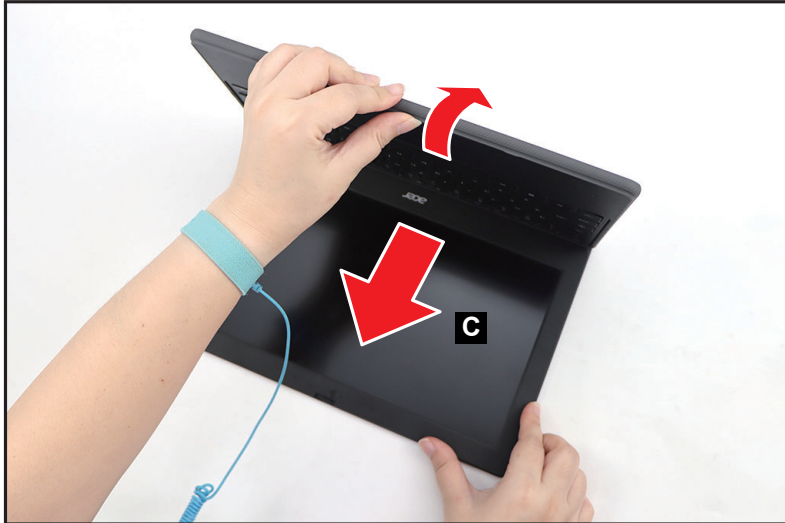


Figure 1-27. LCD Module Removal

Mainboard Removal

Prerequisite:

[Keyboard Removal](#) and [LCD Module Removal](#)

1. Disconnect the I/O board (L) FFC from the mainboard connector (A) ([Figure 1-28](#)).
2. Disconnect the audio board FFC from the mainboard connector (B) ([Figure 1-28](#)).
3. Disconnect the touchpad FFC from the mainboard connector (C) ([Figure 1-28](#)).
4. Disconnect the speaker cable from the mainboard connector (D) ([Figure 1-28](#)).

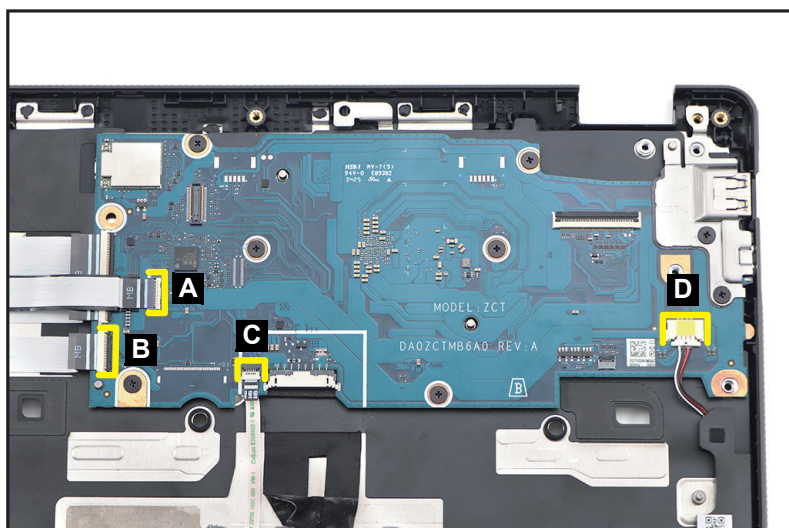


Figure 1-28. Mainboard Removal

⚠ CAUTION:

I/O board (L) FFC (Flexible Flat Circuit), audio board FFC, and touchpad FFC can be damaged if removed while the mainboard connectors are locked.

5. Disconnect the I/O board (H) FFC from the mainboard connector (E) (Figure 1-29).
6. Remove eight (8) screws securing the mainboard and I/O bracket (Figure 1-29).

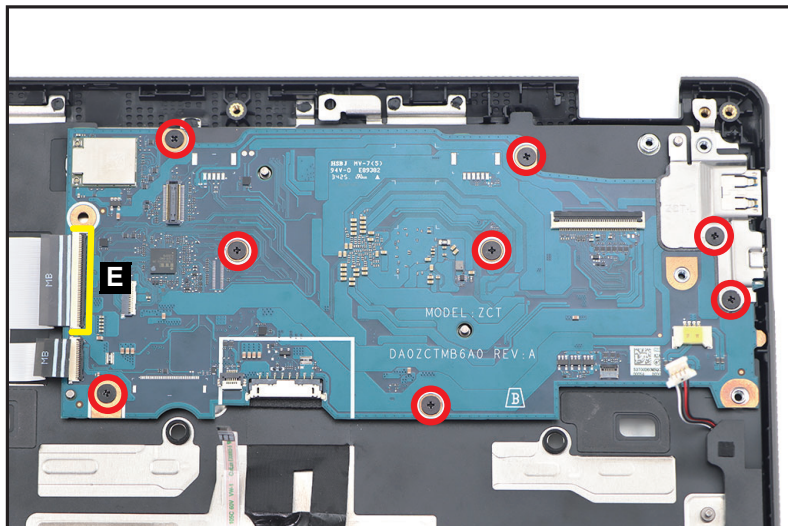


Figure 1-29. Mainboard Removal

⚠ CAUTION:

I/O board (H) FFC (Flexible Flat Circuit) can be damaged if removed while the mainboard connector is locked.

7. Release the I/O bracket (F) from the guide pins (G) on the top assembly (Figure 1-30). Then remove the I/O bracket.

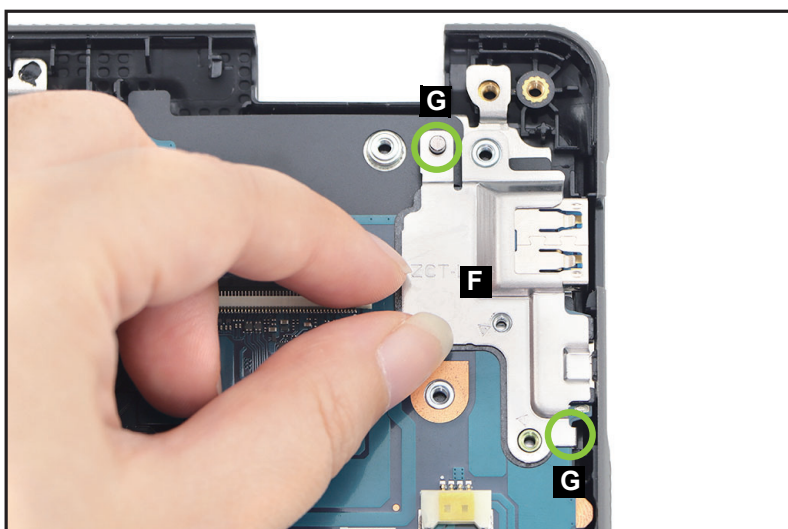


Figure 1-30. Mainboard Removal

8. Release the mainboard (H) from the I/O ports slots and guide pins (I) on the top assembly (Figure 1-31). Then remove the mainboard.

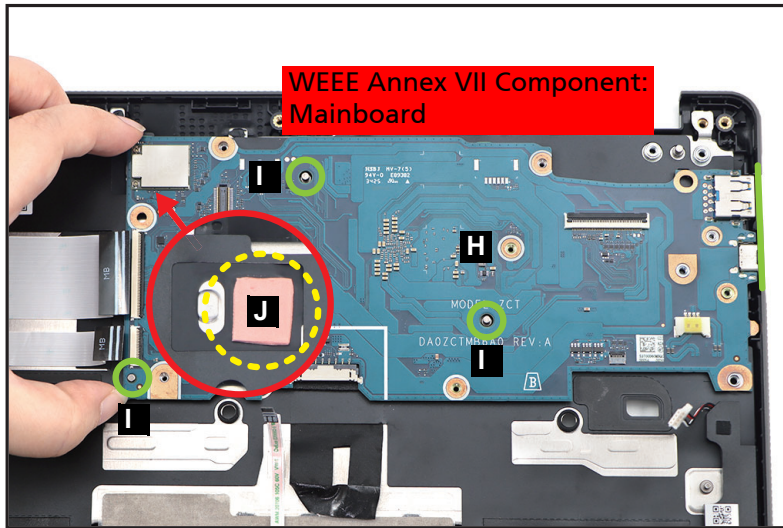


Figure 1-31. Mainboard Removal

⚠ CAUTION:

During mainboard removal, be aware that Wi-Fi thermal pad (J) is located on the top assembly under the WLAN module position.

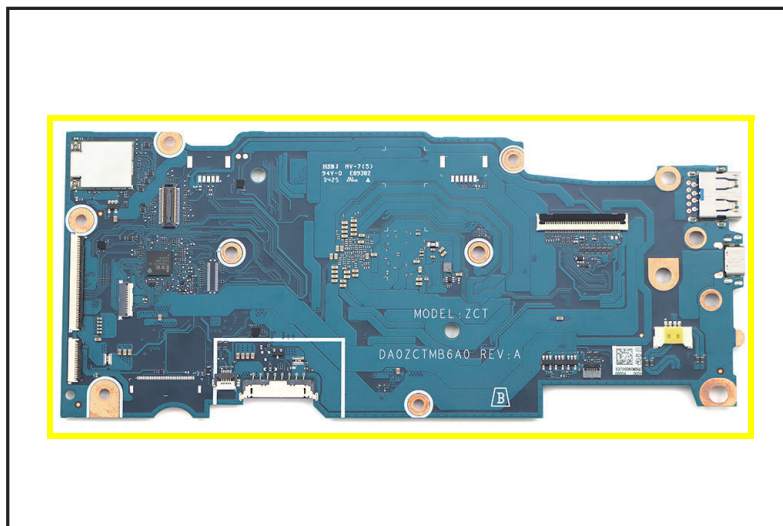


Figure 1-32. Mainboard

+ IMPORTANT:

Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in Figure 1-32. Remove the circuit board and follow local regulations for disposal.

USB Board Removal

Prerequisite:

LCD Module Removal

1. Disconnect the I/O board (L) FFC (A) from the USB board and mainboard connectors (Figure 1-33). Then remove the I/O board (L) FFC.

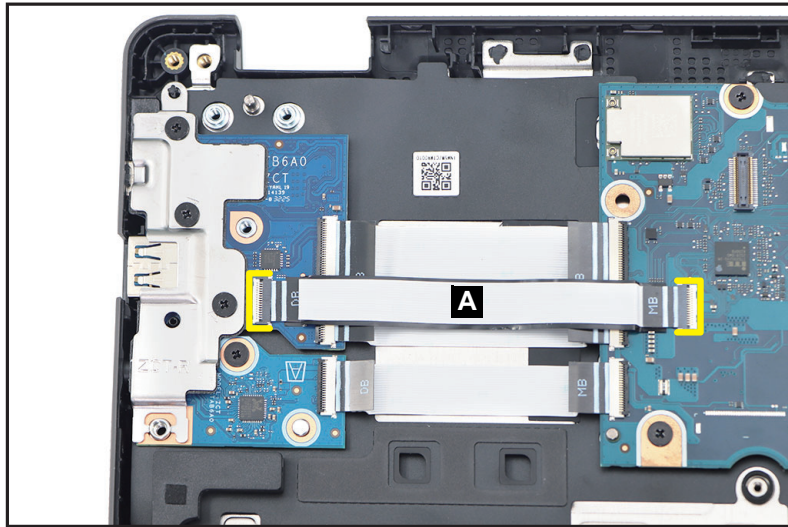


Figure 1-33. USB Board Removal

⚠ CAUTION:

I/O board (L) FFC (Flexible Flat Circuit) can be damaged if removed while the USB board and mainboard connectors are locked.

2. Disconnect the I/O board (H) FFC (B) from the USB board and mainboard connectors. Then carefully detach the I/O board (H) FFC from its underneath adhesive (highlighted with the yellow lines) (Figure 1-34). Remove the I/O board (H) FFC.

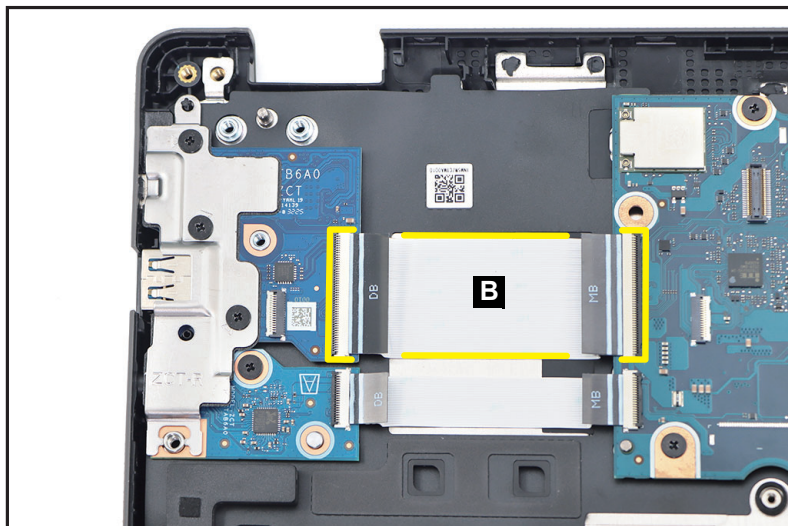


Figure 1-34. USB Board Removal

⚠ CAUTION:

I/O board (H) FFC (Flexible Flat Circuit) can be damaged if removed while the USB board and mainboard connectors are locked.

3. Remove three (3) screws securing the USB board and I/O bracket (Figure 1-35).

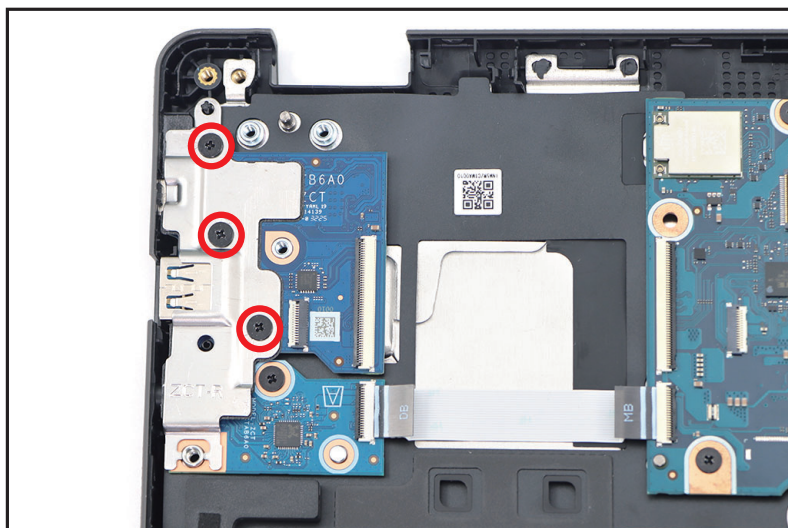


Figure 1-35. USB Board Removal

4. Release the I/O bracket (C) from the guide pin (D) and screw hole stud (E) on the top assembly (Figure 1-36). Then remove the I/O bracket.



Figure 1-36. USB Board Removal

5. Release the USB board (F) from the I/O ports slots and guide pin (G) on the top assembly (Figure 1-37). Then remove the USB board.

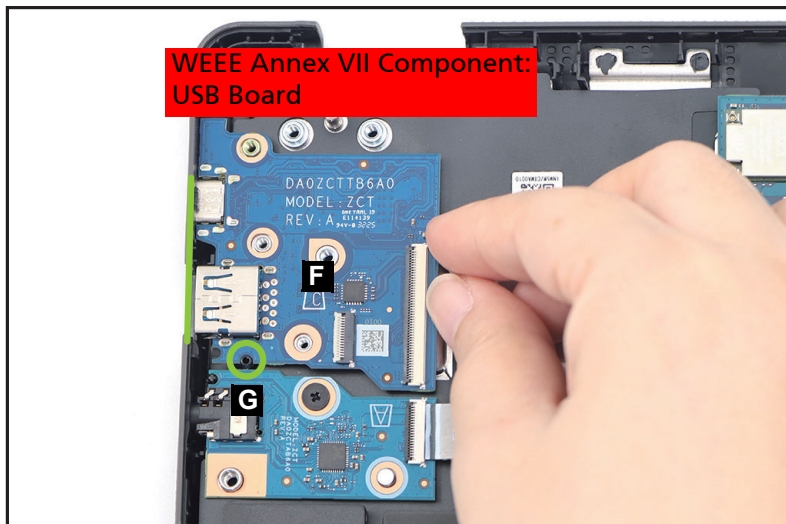


Figure 1-37. USB Board Removal

Audio Board Removal

Prerequisite:

LCD Module Removal

1. Disconnect the audio board FFC (A) from the audio board and mainboard connectors. Then carefully detach the audio board FFC from its underneath adhesive (highlighted with the yellow lines) (Figure 1-38). Remove the audio board FFC.

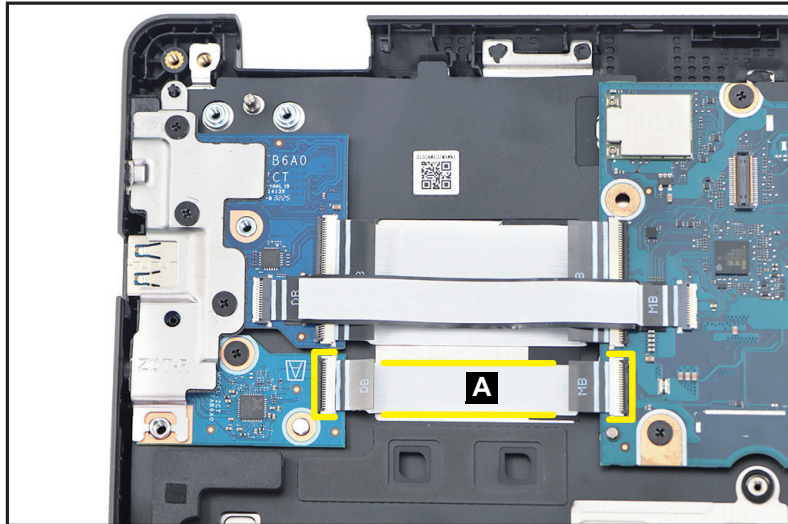


Figure 1-38. Audio Board Removal

⚠ CAUTION:

Audio board FFC (Flexible Flat Circuit) can be damaged if removed while the audio board and mainboard connectors are locked.

2. Remove four (4) screws securing the USB board, I/O bracket, and audio board (Figure 1-39).

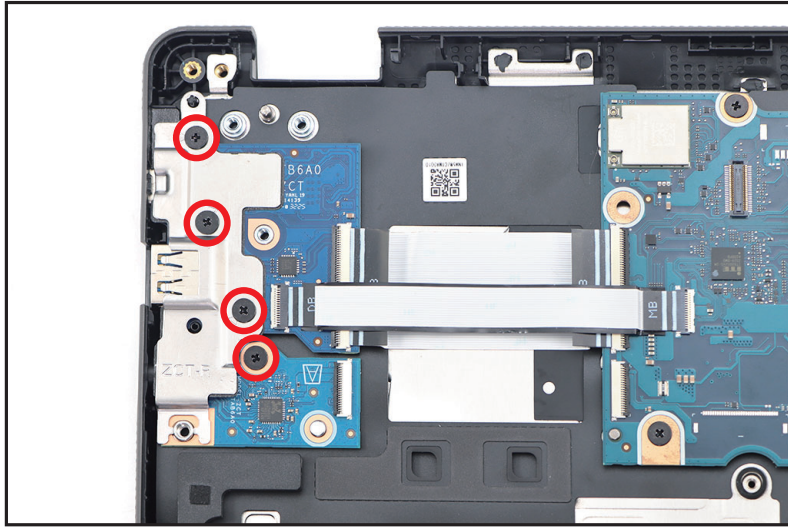


Figure 1-39. Audio Board Removal

3. Release the I/O bracket (B) from the guide pin (C) and screw hole stud (D) on the top assembly (Figure 1-36). Then remove the I/O bracket.

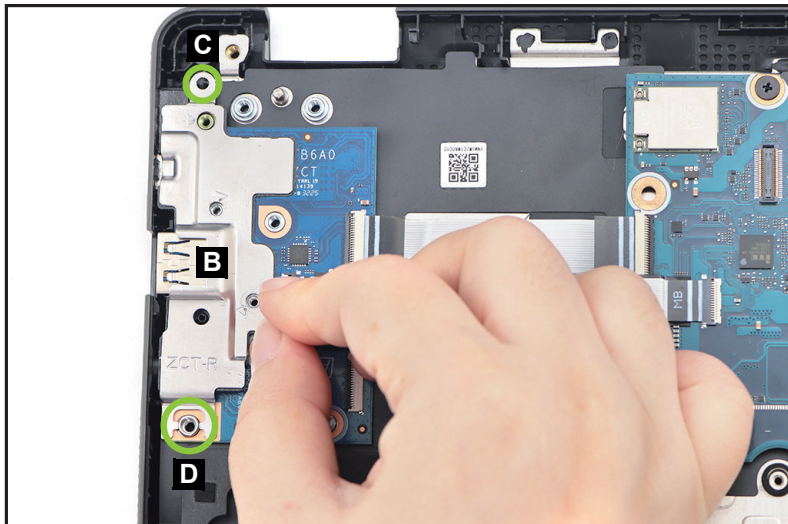


Figure 1-40. Audio Board Removal

4. Release the audio board (E) from the I/O port slot and guide pins (F) on the top assembly (Figure 1-37). Then remove the audio board.

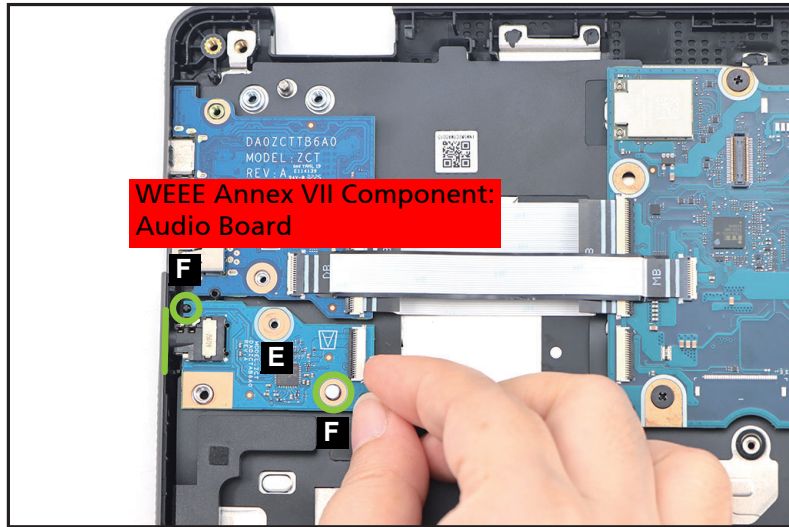


Figure 1-41. Audio Board Removal

LCD Bezel Removal

Prerequisite:

[LCD Module Removal](#)

1. Pry the LCD bezel from the upper side to release the latches ([Figure 1-42](#)).



Figure 1-42. LCD Bezel Removal

2. Pry the LCD bezel from the right side to release the latches ([Figure 1-43](#)).



Figure 1-43. LCD Bezel Removal

3. Continue prying along the left side of the bezel (Figure 1-44).



Figure 1-44. LCD Bezel Removal

4. Continue prying along the upper side of the bezel until all the latches have been released (Figure 1-45). Then lift and remove the bezel from LCD module.



Figure 1-45. LCD Bezel Removal

LCD Panel Removal

Prerequisite:

[LCD Bezel Removal](#)

⇒ NOTE:

Please take note that the LCD cable includes the LCD panel cable and camera cable.

1. Unroute and release the LCD cable (A) from the LCD hinge and the cable guides on the LCD cover as shown in [Figure 1-46](#).

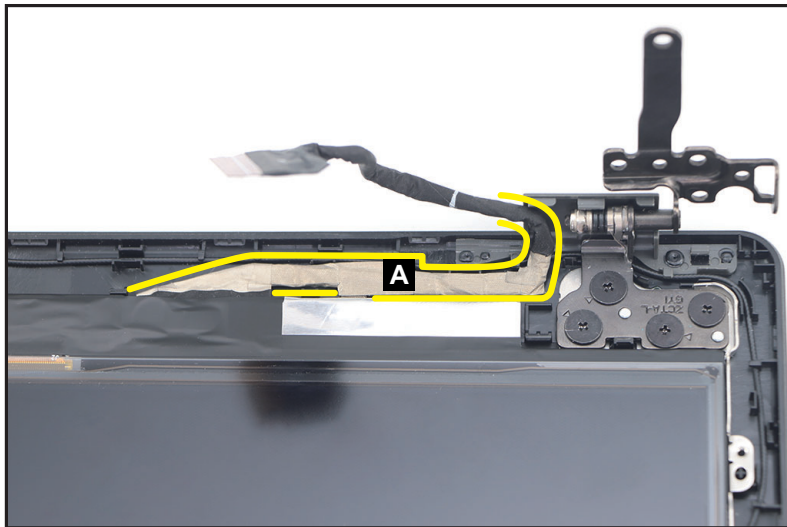


Figure 1-46. LCD Panel Removal

2. Pry slightly to access the double-sided mounting tape (B) underneath the LCD panel (C). Then 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 1-47).

+ **IMPORTANT:**

When removing the mounting tapes, use the pull tab of the easy-pull adhesive strip located on the side. Pull it out from the side first, then pull downward to remove the entire strip.

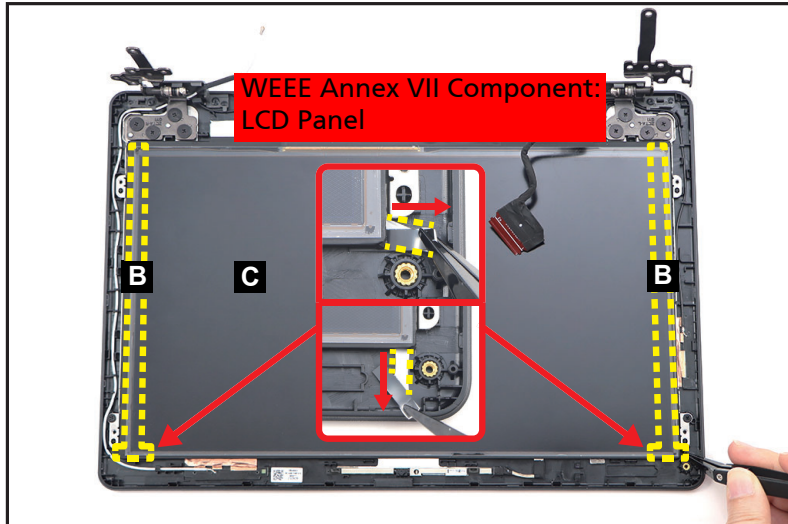


Figure 1-47. LCD Panel Removal

3. Carefully turn the LCD panel over so that the display panel is facing down on a flat surface. Then detach the mylar (D) securing the LCD cable to the LCD panel (Figure 1-48).

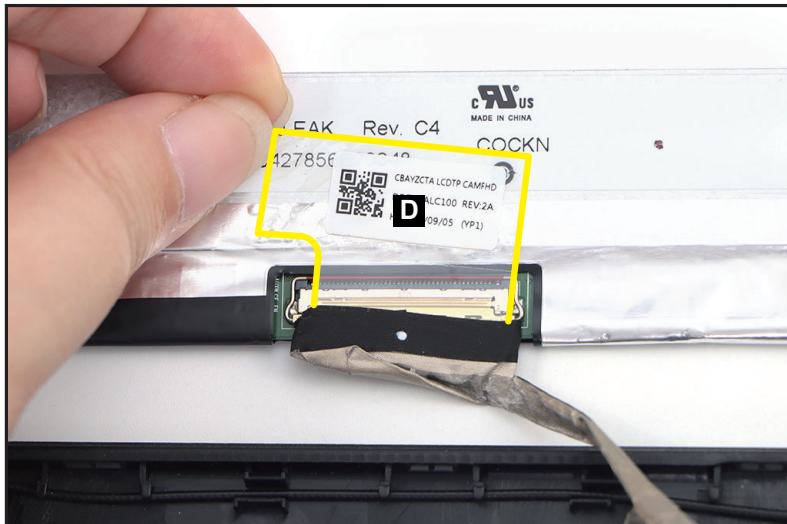


Figure 1-48. LCD Panel Removal

4. Lift the latch (E) securing the LCD cable ([Figure 1-49](#)).



Figure 1-49. LCD Panel Removal

5. Disconnect the LCD cable from the LCD panel connector (F) ([Figure 1-49](#)). Then remove the LCD panel.

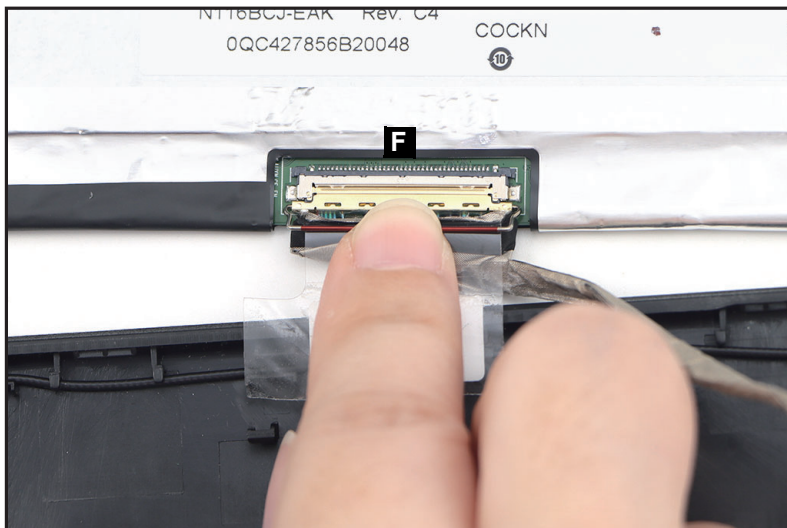


Figure 1-50. LCD Panel Removal

Top Assembly Removal

Prerequisite:

Ensure that the **Speaker Module**, **Touchpad Module**, **Mainboard**, **USB Board**, and **Audio Board** have been disassembled prior removing the top assembly.

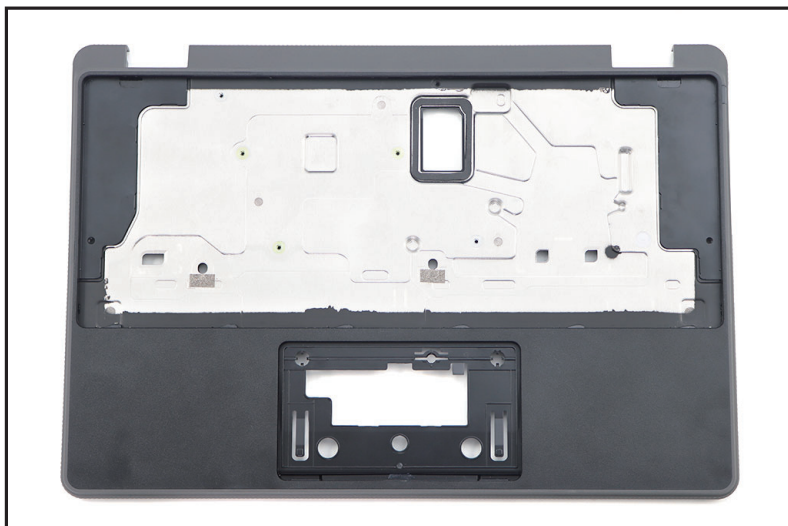
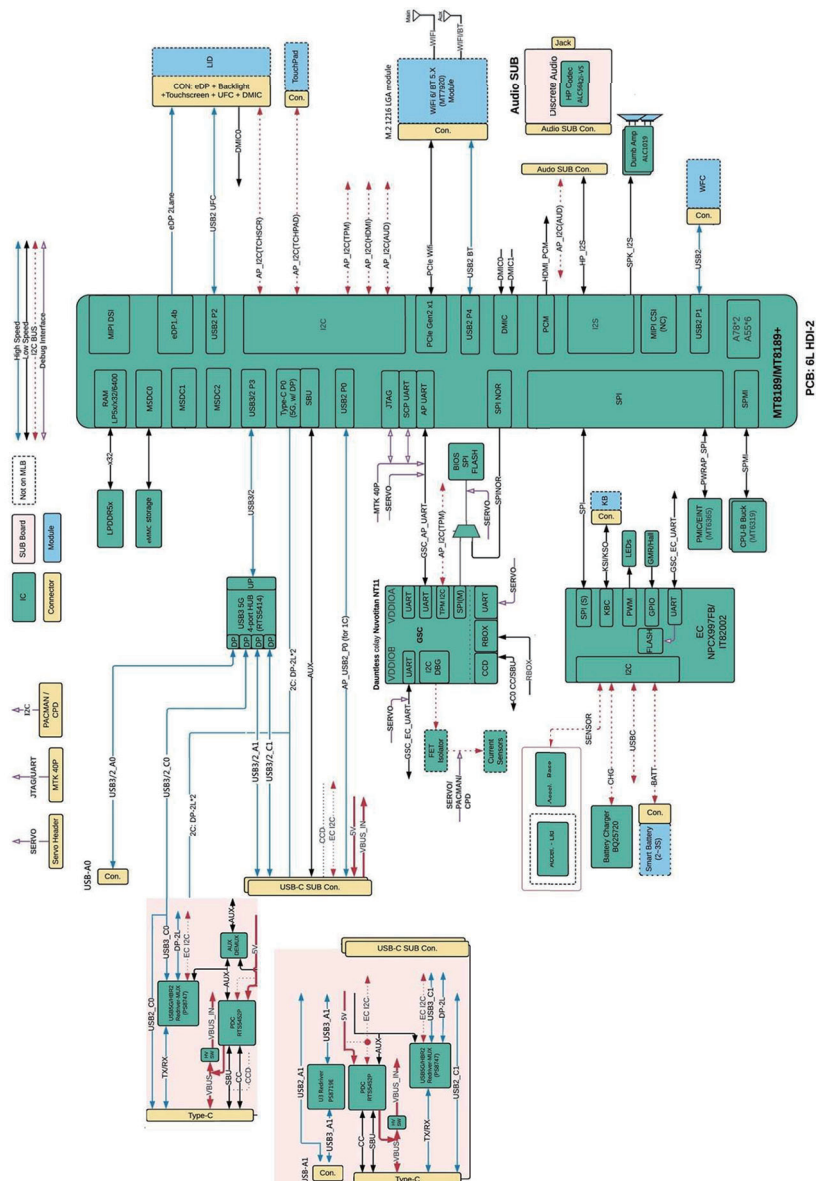


Figure 1-51. Top Assembly

1-37



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 1-1](#) with the verified symptom to determine the solution.

Table 1-1. Common Problems

Symptoms (Verified)
Power On Issues
No Display Issues
LCD Picture Failure
Internal Keyboard Failure
Touch Pad Failure
Internal Speaker Failure
Audio Codec 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:

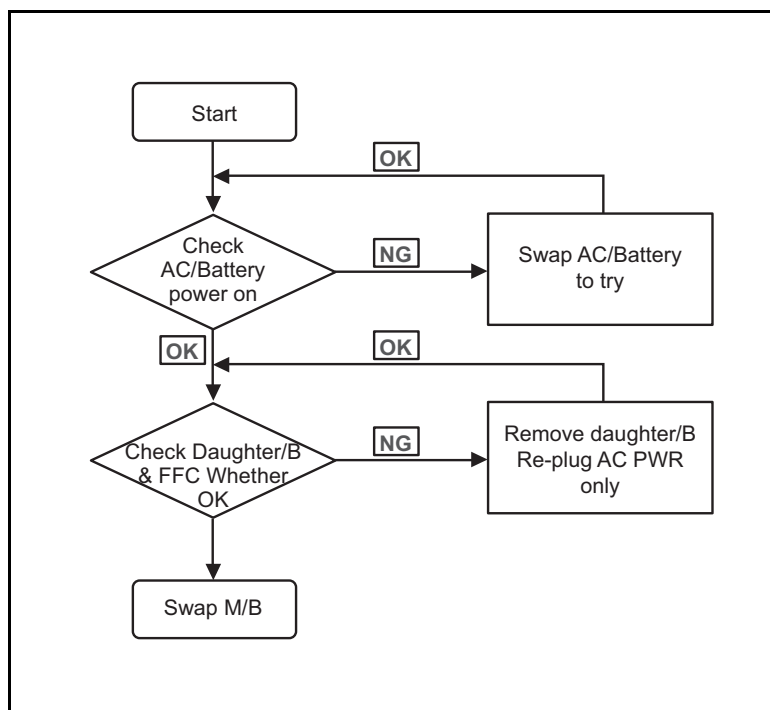


Figure 1-52. Power On Issue

Computer Shuts Down Intermittently

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

1. Make 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 Display does not work, perform the following:

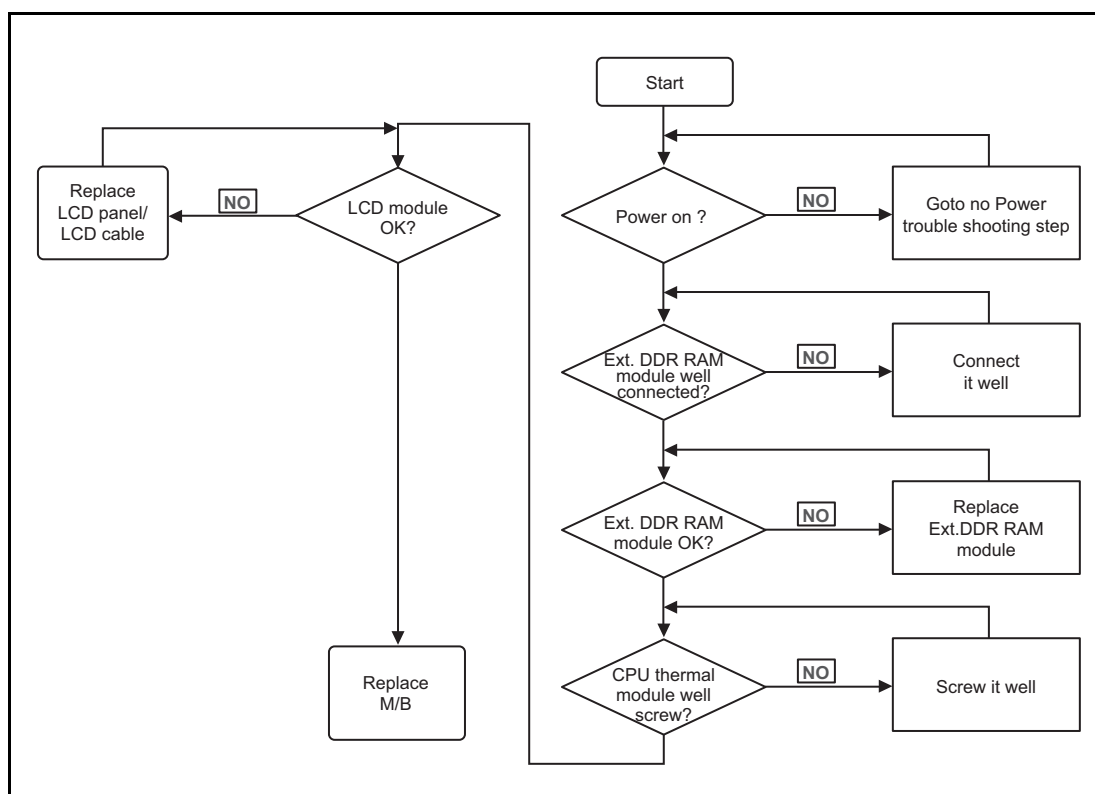


Figure 1-53. No Display Issue

No POST or Video

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

1. Make sure that internal display is selected. Reference product pages for specific model procedures on how to switch between the internal display and the external display.
2. Make sure the computer has been turned on.
If no power, refer to [Power On Issues](#).
3. Turn off the Chromebook. Remove the power cable, and then plug it back in. Then perform the hard reset.
4. Connect an external monitor to the computer and switch between the internal display and the external display.

⇒ NOTE:

If you've connected an external monitor, the screen will only appear on the external monitor. If you've connected a projector, the screen will be displayed on both your Chromebook and via the projector.

5. If the POST or video appears on the external display only, refer to [LCD Picture Failure](#).
6. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards.
7. Start the computer. If the computer boots correctly, add the devices one by one until the failure point is discovered.
8. 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. Refer to [Disassembly Procedures](#).

⇒ 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 the Chromebook display resolution is not normal, click the status area where your account picture appears.
 - Click **Settings > Display Settings**.
 - Click on the **Resolution** drop-down menu to choose the desired resolution.
 - Check the display again. Readjust if necessary.
4. Roll back the video driver to the previous version if updated.
5. Remove and reinstall the video driver.
6. Run the Diagnostic test and follow the on-screen prompts.
7. If the Issue is still not resolved, please contact Acer local service.

LCD Picture Failure

If the LCD fails, perform the following:

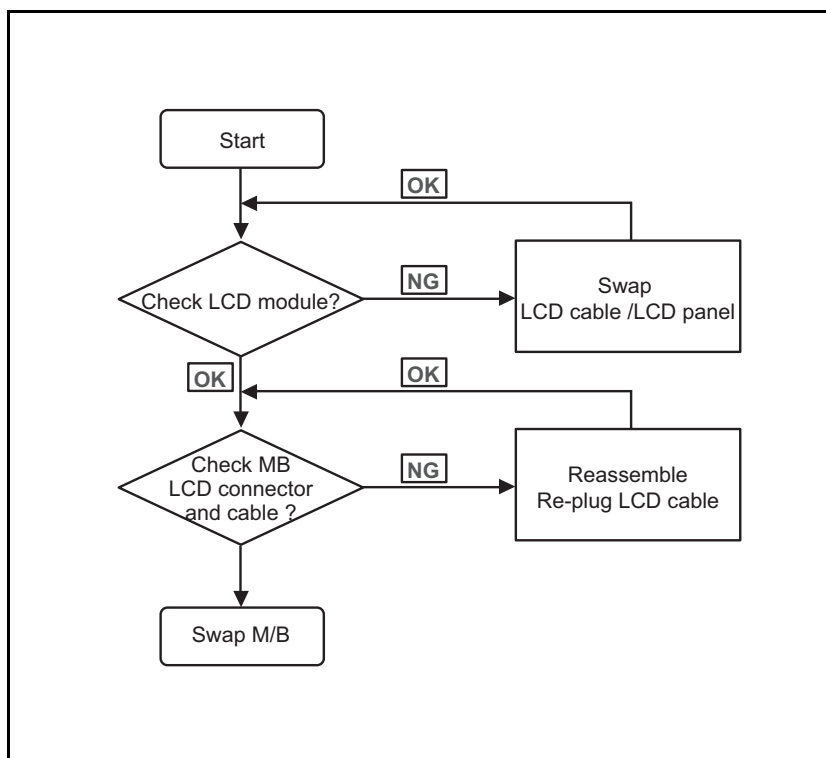


Figure 1-54. LCD Failure

Internal Keyboard Failure

If the internal keyboard fails, perform the following:

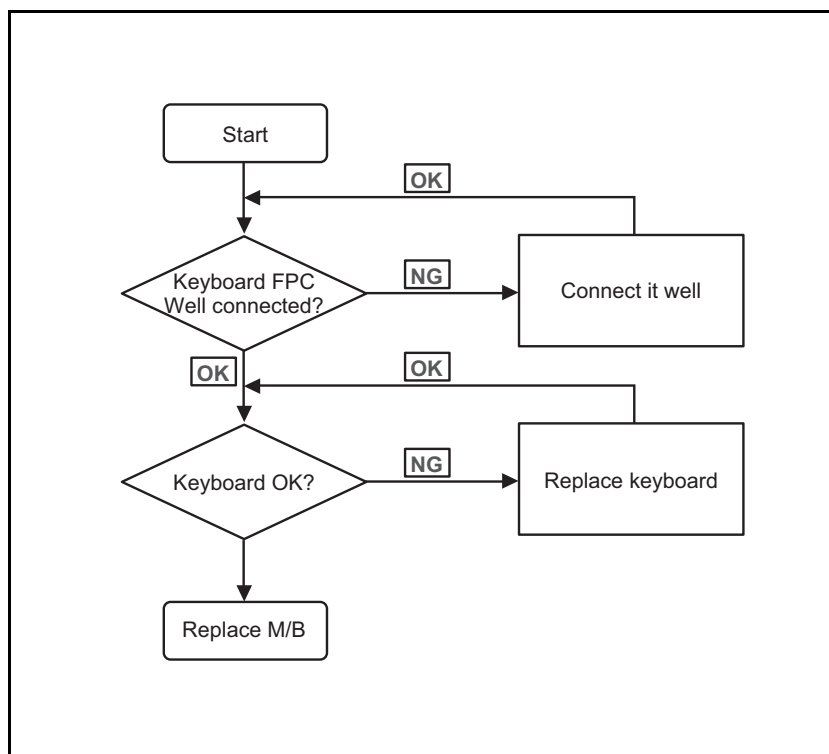


Figure 1-55. Internal Keyboard Failure

Touch Pad Failure

If the touch pad fails, perform the following:

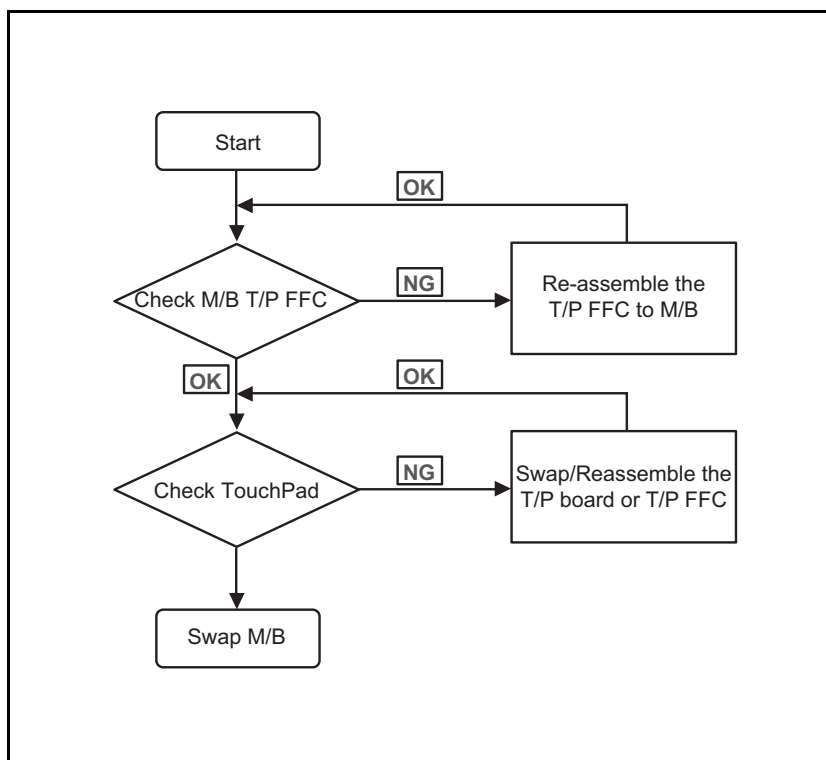


Figure 1-56. Touch Pad Failure

Internal Speaker Failure

If internal speakers fail, perform the following:

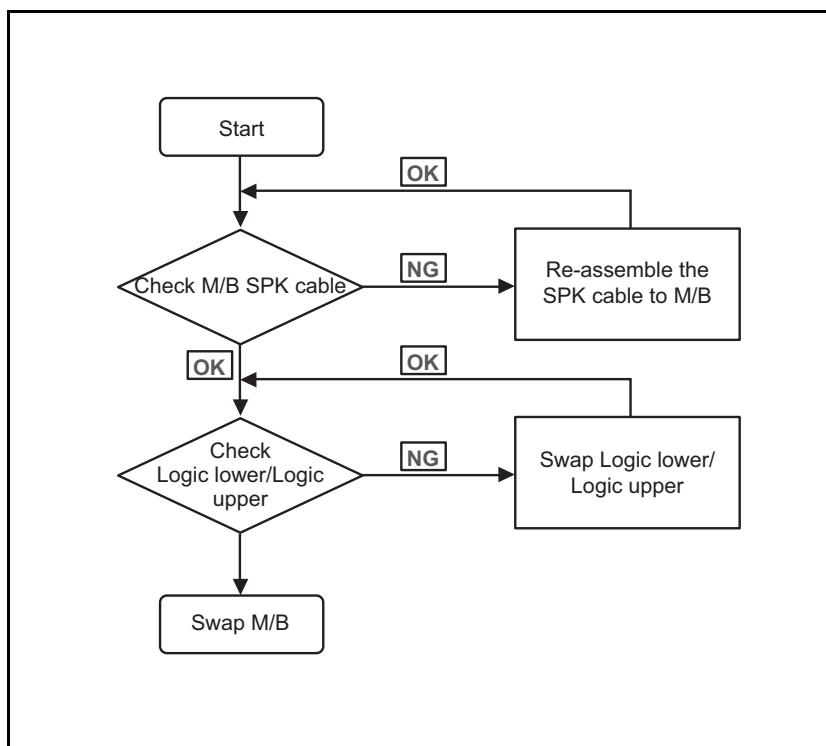


Figure 1-57. Internal Speaker Failure

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  or , or click the status area of 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. Factory reset your Chromebook:

⇒ NOTE:

Make sure to back up all the files on Google Drive or an external hard drive.

- Sign out of the Chromebook and press and hold **Ctrl + Alt + Shift + R**.
- Click **Restart** to restart the Chromebook, and then follow the on-screen instructions.

- Check if the problem is fixed once you set up the Chromebook.
- 6. Restore system and file settings from a known good date using *Chromebook Recovery Utility*.
- 7. Reinstall the operating system.
- 8. If the issue is still not resolved, please contact Acer local service.

Audio Codec Failure

If the audio codec fails, perform the following:

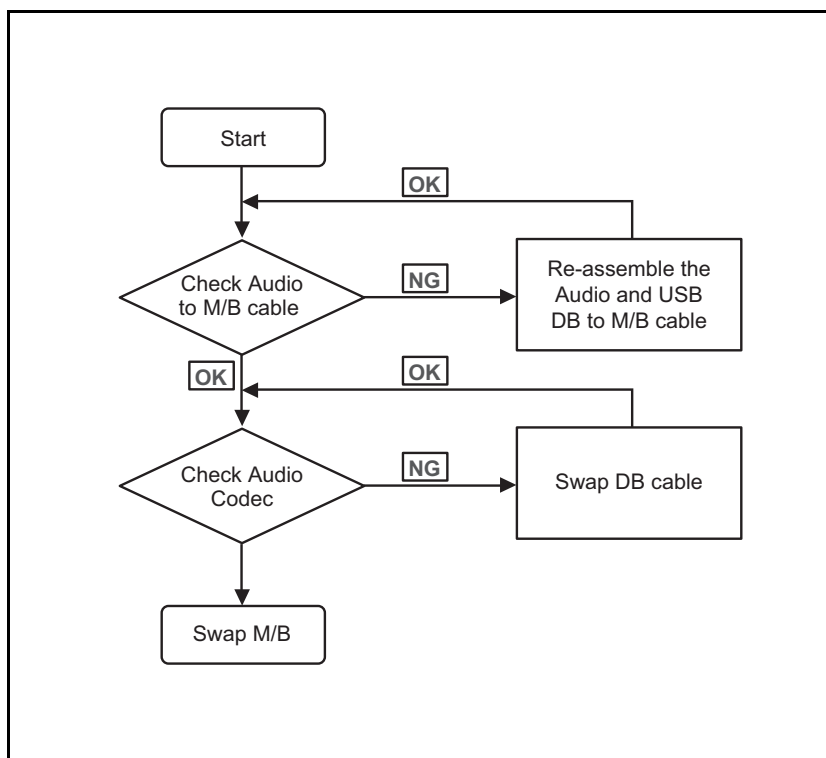


Figure 1-58. Audio Codec Failure

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

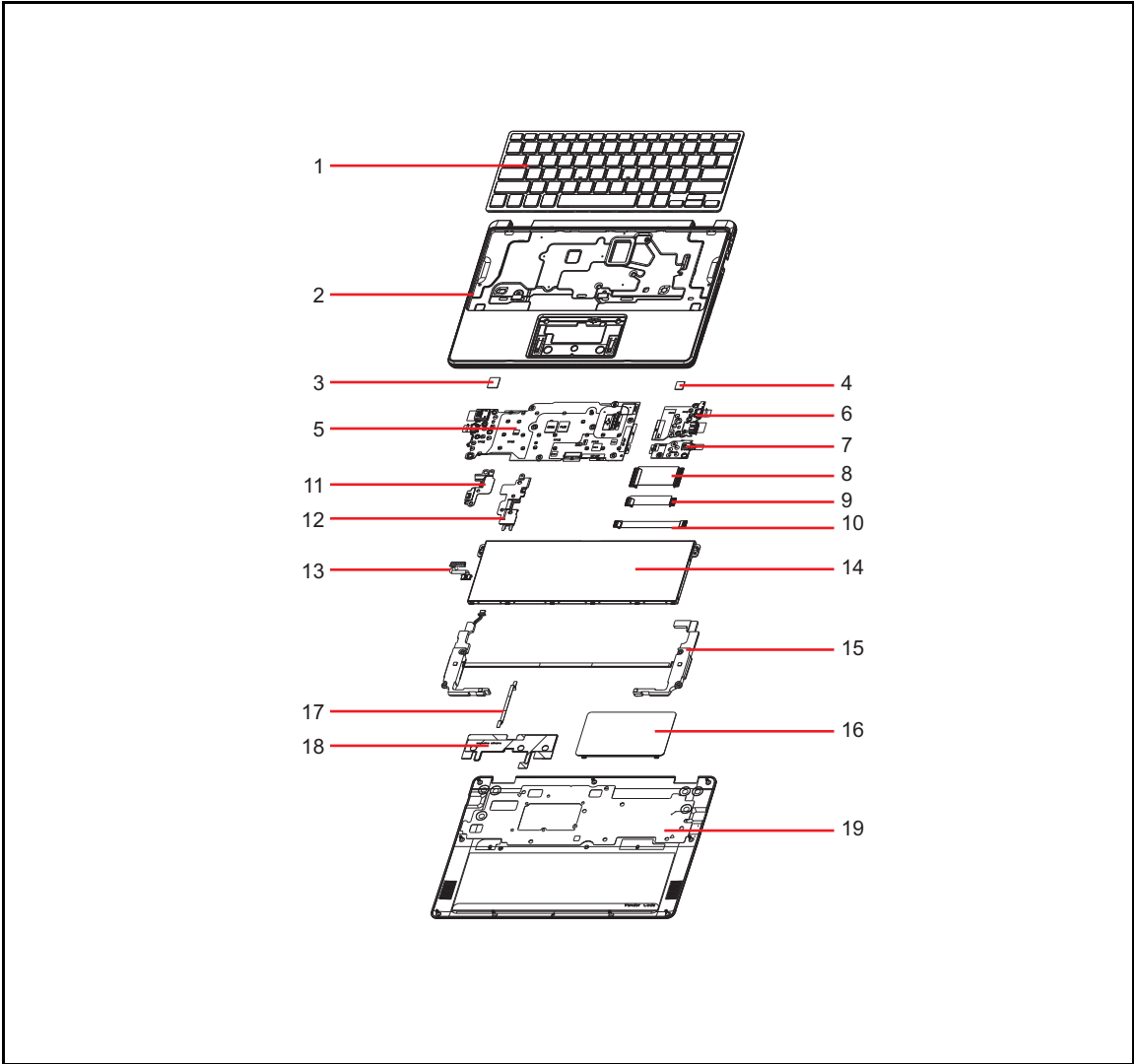


Figure 1-59. System Exploded Diagram

Table 1-2. System Exploded Diagram

No.	Description
1	Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Arabic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
2	UPPER CASE ASSY
3	THERMAL PAD CPU
4	THERMAL PAD WIFI TOP
5	Mainboard C725 MT8189 4GB eMMC64GB UMA MT7925_CN

Table 1-2. System Exploded Diagram (Continued)

No.	Description
6	BOARD USB
7	BOARD AUDIO
8	CABLE USB BOARD HIGH SPEED
9	CABLE AUDIO BOARD
10	CABLE USB BOARD LOW SPEED
11	IO BRACKET L
12	IO BRACKET R
13	CABLE BATTERY
14	Battery CosMx Typ.45Wh 3980mAh 3S1P AP25CBK 248x84.4x4.81(mm) AP25C 11.37V 48W Li-Ion with SMT type connector
15	SPEAKER R+L
16	TOUCH PAD ASSY SYNAPTICS NC.24611.08W
17	FFC CABLE TOUCHPAD
18	COND FABRIC W/INS MYLAR TP
19	LOWER CASE

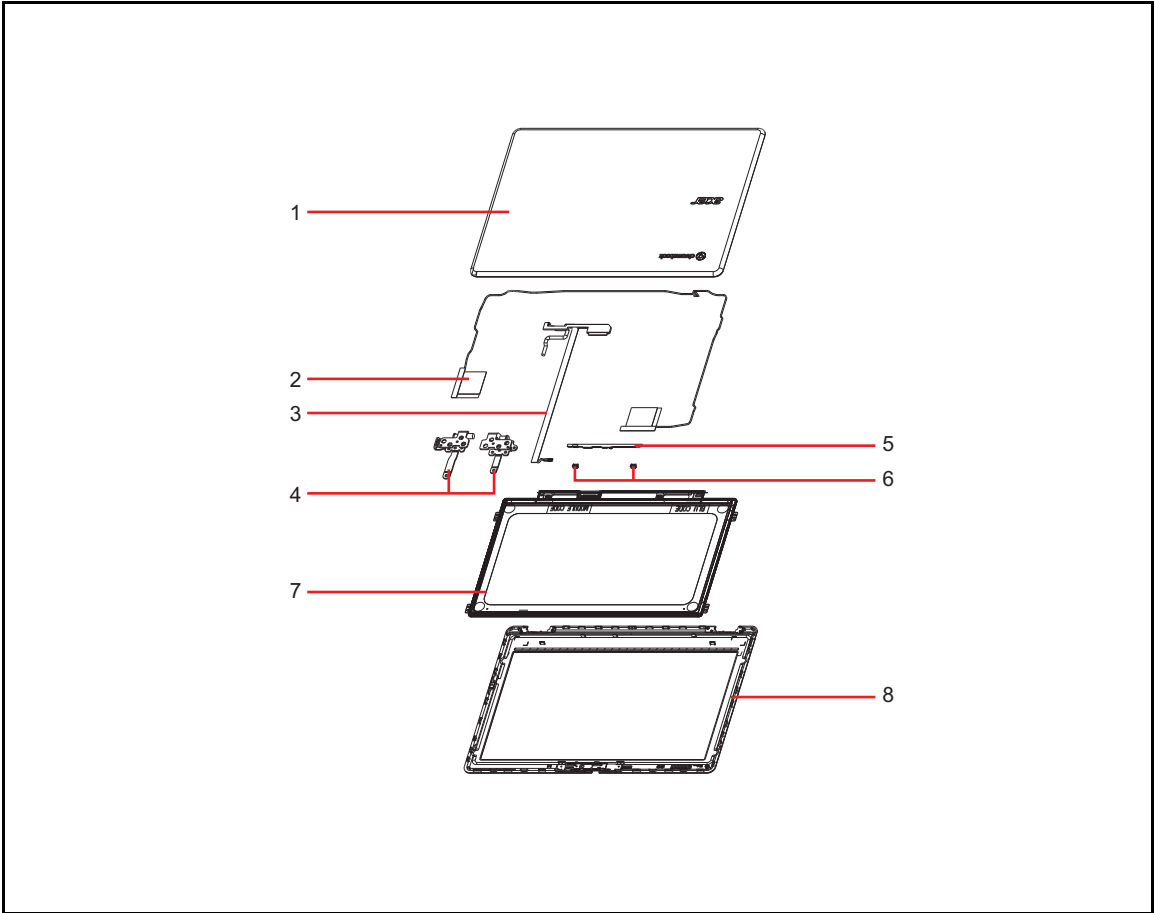


Figure 1-60. LCD Assembly Exploded Diagram

Table 1-3. LCD Assembly Exploded Diagram

No.	Description
1	LCD COVER FOR TOUCH SKU
2	LTE ANTENNA MAIN + AUX
3	CABLE LCD TOUCH W/O 5M CAM
4	HINGE R
	HINGE L
5	Camera Tech-Front FHD FF YHIM-1 GC2607 (CSP) RTS5856A PS-32149A1 ZTS6534G USB , 4.2T
6	RUBB SI W/ FABRIC MESH ASSY MIC
7	LED LCD Panel CSOT 11.6" WXGA IPS None Glare MNB601LS1-3 H/W 0A 250nit NTSC 50% 60Hz 20ms 1000:1 (ultra-slim) (eDP)
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 1-4. FRU List

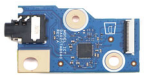
Category	Pictures	Description
ADAPTER		Adapter DELTA ADP-65KE DA 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25 A Black TCO9.0, PCR 50%, with LOGO
		Adapter Chicony Power A065RP99P 65W Type C Brick 5V/3A_9V/3A_12V/3A_15V/3A_20V_3.25 A Black TCO9.0, PCR 50%, with LOGO
		Adapter Chicony Power A065RPB5P 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 Chicony Power A065RPC0P 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 CosMx Typ.45Wh 3980mAh 3S1P AP25CBK 248x84.4x4.81(mm) AP25C 11.37V 48W Li-Ion with SMT type connector
		Battery SIMPLO Typ.45Wh 3980mAh 3S1P AP25C7K 248x84.4x4.81(mm) AP25C 11.37V 48W Li-Ion with SMT type connector
BOARD		BOARD USB
		BOARD AUDIO
CABLE		CABLE BATTERY

Table 1-4. FRU List (Continued)

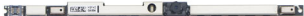
Category	Pictures	Description
CABLE		CABLE AUDIO BOARD
		CABLE USB BOARD LOW SPEED
		CABLE USB BOARD HIGH SPEED
		FFC CABLE TOUCHPAD
		LTE ANTENNA MAIN + AUX
		CABLE LCD TOUCH W/O 5M CAM
		CABLE LCD NONTouch W/ 5M CAM
CAMERA		Camera Tech-Front FHD FF YHIM-1 GC2607 (CSP) RTS5856A PS-32149A1 ZTS6534G USB , 4.2T
		Camera AzureWave FHD FF AM-5SF5D20-A SC200PC SPCA2093N2 HX-F0255A MSM261DGT006 USB 4.2T, Z3
		Camera CHICONY 5M AF CKA0519 GC05A2 SPCA2089B3 1LS1105LL-H Chrome (TNR)
KEYBOARD		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Arabic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black FR/Arabic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Belgium Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Brazilian Portuguese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Bulgaria Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Canadian French Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black SLO/CRO Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black CZ/SK Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Danish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black French Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black German Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Greek Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Hebrew Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Hungarian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Persian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Italian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 86KS Black Japanese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Korean Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black ALA-Spanish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Norwegian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Portuguese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Russian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Nordic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Spanish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Sweden Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Swiss/G Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Thailand Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black Turkish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Traditional Chinese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black US International Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 82KS Black UK Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black Ukrainian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard SUNREX TD01T_C30B TD01T Internal 11 Standard 81KS Black US Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Arabic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black FR/Arabic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Belgium Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Brazilian Portuguese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Bulgaria Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Canadian French Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black SLO/CRO Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black CZ/SK Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Danish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black French Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black German Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Greek Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black US International w/ Hebrew Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Hungarian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Persian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Italian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Korean Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black ALA-Spanish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Norwegian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Portuguese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Russian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Nordic Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Spanish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR

Table 1-4. FRU List (Continued)

Category	Pictures	Description
KEYBOARD		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Sweden Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Swiss/G Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Thailand Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black Turkish Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Traditional Chinese Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black US International Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 82KS Black UK Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black Ukrainian Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
		Keyboard CHICONY TD01T_C30B TD01T Internal 11 Standard 81KS Black US Chrome OS, Strauss Vivaldi 2, TD01T, EDU/PWR
LCD		LED LCD Panel CSOT 11.6" WXGA IPS None Glare MNB601LS1-3 H/W 0A 250nit NTSC 50% 60Hz 20ms 1000:1 (ultra-slim) (eDP)
		LED LCD Panel K&D 11.6" WXGA IPS None Glare KD116N21-30NV-B012 250nit NTSC 50% 60Hz 30ms 1200:1 (3.0mm max, IPS)

Table 1-4. FRU List (Continued)

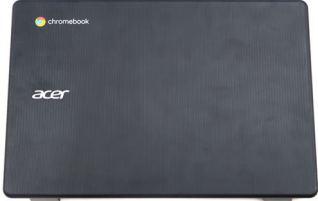
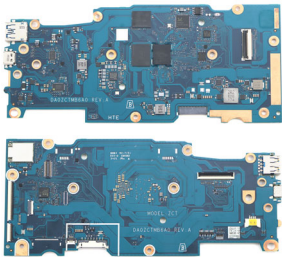
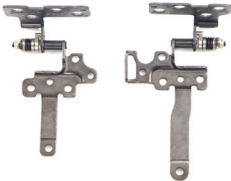
Category	Pictures	Description
LCD		LED LCD Panel CMI 11.6" WXGA IPS None Glare N116BCA-EA1 C2 250nit NTSC 50% 60Hz 25ms 800:1 (3.0mm max, IPS) with Fiti driver IC
		LED Touch Panel INX 11.6" AG Viewing Angle 89 N116BCN-EAK C1 250nit 60Hz
		LED Touch Panel CSOT 11.6" " WXGA IPS None Glare MNB601LT1-1 V01 300nit NTSC 50% 60Hz 20ms 1000:1 (in-cell, for Chrome)
LCD BEZEL		LCD BEZEL
LCD COVER		LCD COVER FOR TOUCH SKU
		LCD COVER FOR NONTOUCH SKU
LOWER CASE		LOWER CASE
MAINBOARD		Mainboard C725 MT8189 4GB eMMC64GB UMA MT7925_CN
METAL		HINGE R
		HINGE L

Table 1-4. FRU List (Continued)

Category	Pictures	Description
METAL		5M CAMERA BRACKET W/COND FABRIC
		IO BRACKET L
		IO BRACKET R
POWER CORD		POWER CORD 1M 125V EUR+KOR BLACK
		POWER CORD 1M 125V US BLACK
		POWER CORD 1M 125V JAP BLACK
		POWER CORD 1M 125V TAIWAN 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 UK BLACK
		POWER CORD 1M 125V TAIWAN BLACK TCO10
		POWER CORD 1M 250V KOR BLACK TCO10
		POWER CORD 1M 250V EUR BLACK TCO10
		POWER CORD 1M 250V AUS BLACK TCO10

Table 1-4. FRU List (Continued)

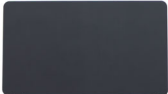
Category	Pictures	Description
POWER CORD		POWER CORD 1M 125V JAP BLACK TCO10
		POWER CORD 1M 250V CHINA BLACK TCO10
		POWER CORD 1M 250V ITL BLACK TCO10
		POWER CORD 1M 250V S.AFRICA BLACK TCO10
		POWER CORD 1M 250V INDIA BLACK TCO10
		POWER CORD 1M 250V BRAZIL BLACK TCO10
		POWER CORD 1M 250V UK BLACK TCO10
		POWER CORD 1M 250V ARG BLACK TCO10
		POWER CORD 1M 250V DENMARK BLACK TCO10
		POWER CORD 1M 250V SWISS BLACK TCO10
		POWER CORD 1M 250V ISRAEL BLACK TCO10
		POWER CORD 1M 250V ARG BLACK TCO10
		POWER CORD 1M 125V US BLACK TCO10
		POWER CORD 1M 250V EUR+KOR BLACK TCO10
SPEAKER/ MICROPHONE		SPEAKER R+L
TOUCHPAD		TOUCH PAD ASSY SYNAPTICS NC.24611.08W
		TOUCH PAD ASSY ELANTECH NC.24611.04K

Table 1-4. FRU List (Continued)

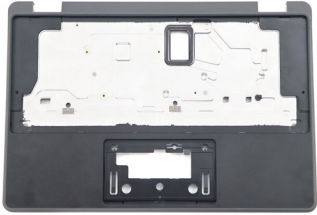
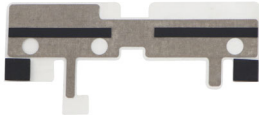
Category	Pictures	Description
UPPER CASE		UPPER CASE ASSY
MISCELLANEOUS		LCD ADHESIVE TAPE W/ MYLAR
		RUBB SI W/ FABRIC MESH ASSY MIC
		COND FABRIC W/INS MYLAR TP
		THERMAL PAD CPU
		THERMAL PAD WIFI TOP
		MYLAR FFC COONECTOR
		MYLAR LCD UPPER 6*6*0.5MM
SCREW		SCREW ASSY(M2.0*5.5)W/WASHER
		SCREW M2*2.5-I(BZN,NYLOK)IRON
		SCREW M2.5*4.5-I IRON
		SCREW M2.0*3.0-I(BZN)(NYLOK)IRON
		SCREW M2.5*6.5-IBNINYLKOD5.0T0.8STL

Table 1-4. FRU List (Continued)

Category	Pictures	Description
SCREW		SCREW M2.5*2.5-IBZNNYLOKD7.5T0.6 IRON
		SCREW M2.0*2.0- I(BNI)(NY)IRON

Software Update

1. Turn on your Chromebook.
2. Connect your Chromebook to Wi-Fi.
3. At the bottom right, select the time.
4. Select **Settings** .
5. At the bottom of the left panel, select **About Chrome OS**.
6. Under "Google Chrome OS", you'll find which version of the Chrome operating system your Chromebook uses.
7. Select **Check for updates**.
8. If your Chromebook finds a software update, it will start to download automatically.

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 Google Help (<https://support.google.com/chromebook/answer/1080595?hl=en>)

This is not a free of charge service.

Factory Reset your Chromebook

1. Sign out of your Chromebook.
2. Press and hold **Ctrl + Alt + Shift + r**.
3. Select **Restart**.
4. In the box that appears, select **Powerwash > Continue**.
5. Follow the steps that appear and sign in with your Google Account.

⇒ **NOTE:**

The account you sign in with after you reset your Chromebook will be the owner account.