



Apple Powerbook 5300 Display Replacement

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INTRODUCTION

In the technological world, people often throw away their laptops to get the latest version. However, repairing your older laptop can be a rewarding do-it-yourself project that also prevents more technology waste.

Before using this guide, inspect the Apple Powerbook for the severity of damage to the screen. Then, view the battery and keyboard replacement guides. Next, review and purchase the list of required tools and replacement parts.

TOOLS:

[TR8 Torx Security Screwdriver](#) (1)
[Prying & Opening Tool](#) (1)
[Pin Punch](#) (1)


PARTS:

[Apple Macintosh Powerbook 5300 Laptop](#)
[9.5 " LCD TFT Display Screen Panel](#) (1)

Step 1 — Battery



- Position the Powerbook towards you with the monitor closed.
- Press the battery removal latch located on the right side of the front panel.
- Gently slide the battery out.

 The keyboard, front pane, and hard drive are connected to the laptop's logic board via a ribbon cable. Lift up slowly on each component with one hand and disconnect the ribbons from their ports on the logic board.

Step 2 — Keyboard



- Turn the laptop over and remove the three T8 torx screws from the bottom panel.

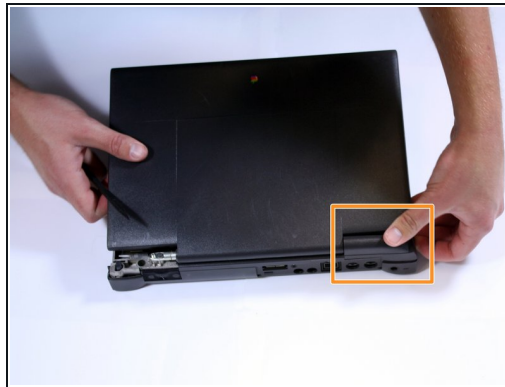
Step 3



- Turn the laptop back over and open the monitor.
- With the monitor facing towards you, gently pull up on the keyboard panel from the bottom.

⚠ With the keyboard turned over as pictured, carefully remove its ribbon cable from the connection port on the logic board. Use a spudger to lift the white plastic retainer about 1/16" to release the cable.

Step 4 — Display



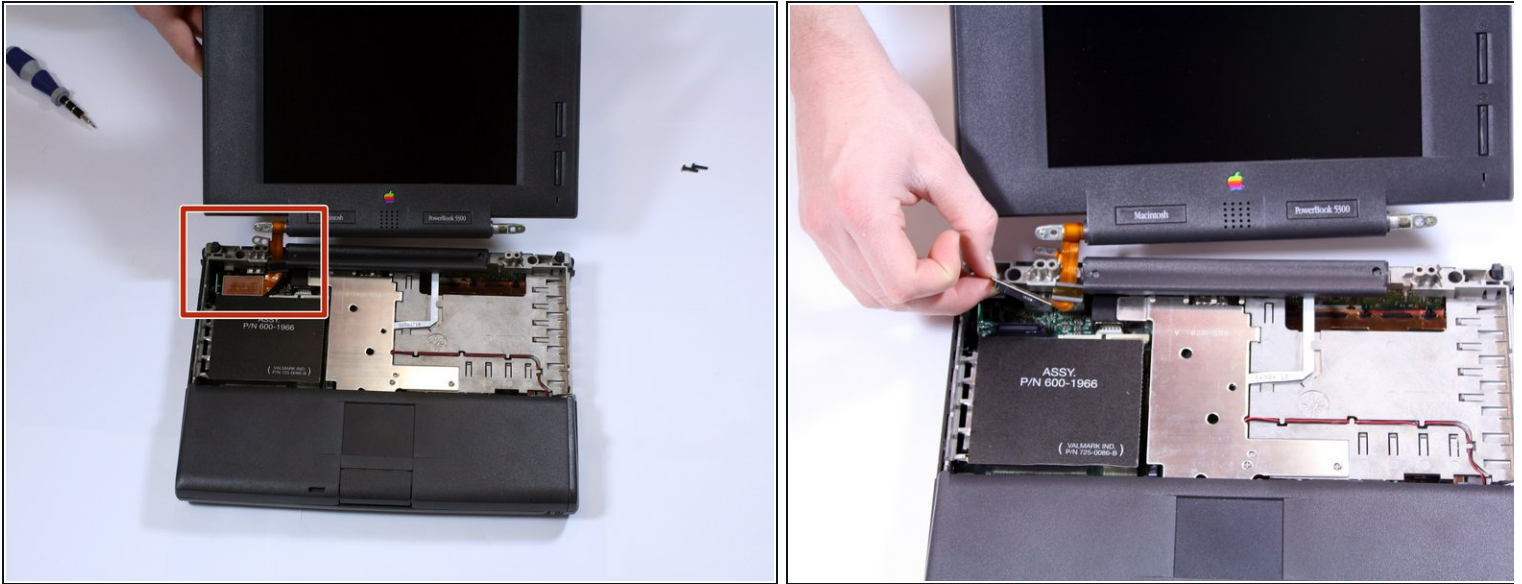
- Begin by locating the side panel covers.
 - Remove the side panels by pulling up and towards the rear of the laptop.
 - Remove the two Torx #8 screws using a TR8 Torx security screwdriver.
- i** You need to remove the screws from the left and right side panels.

Step 5



- Turn the laptop upside down.
- Remove the three Torx #8 screws.
- Turn the laptop right side up, then lift up the keyboard.

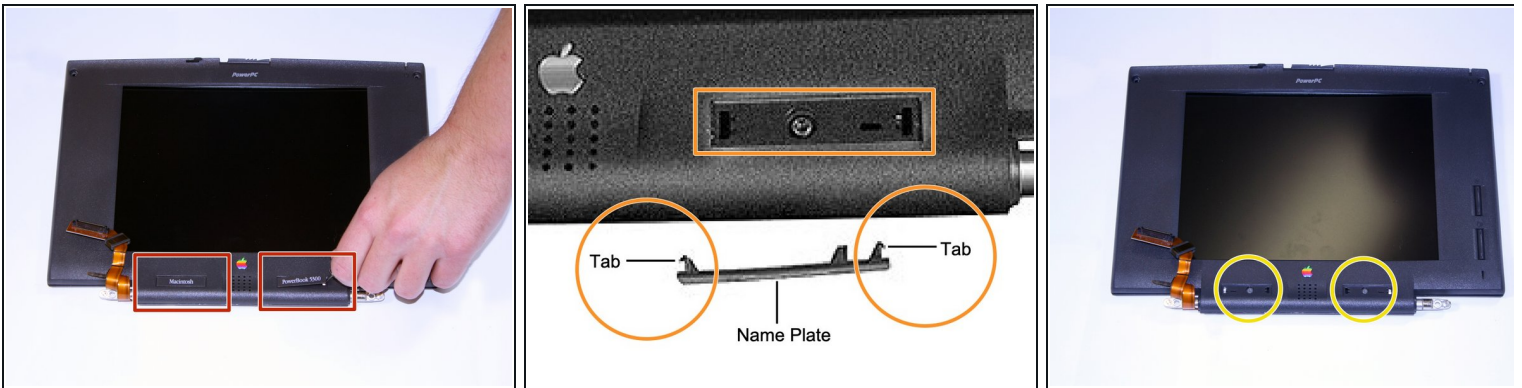
Step 6



- Disconnect the ribbon cable from the logic board.

⚠ Potential for device damage: The cable is twisted around the monitor hinge, so do not pull up. Unravel the cable from the hinge first.

Step 7



- Use a pin to pry up the Powerbook 5300 and Macintosh logos to reveal two screws.
- Using a spudger, remove the two product nameplates to expose the underlying screws.
- Remove two Torx #8 screws.

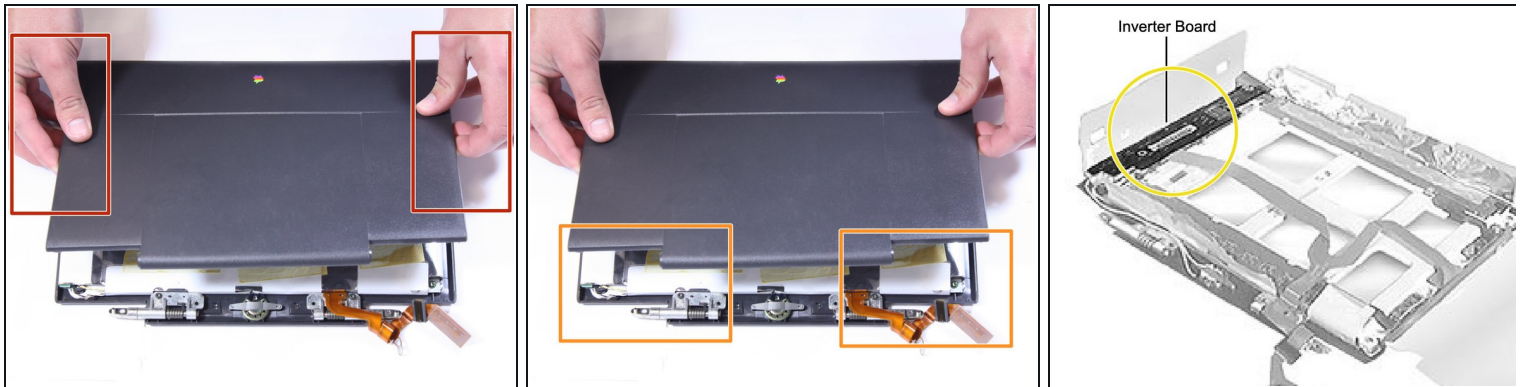
⚠ Be care when using the spudger not to break the tabs on the nameplates.

Step 8



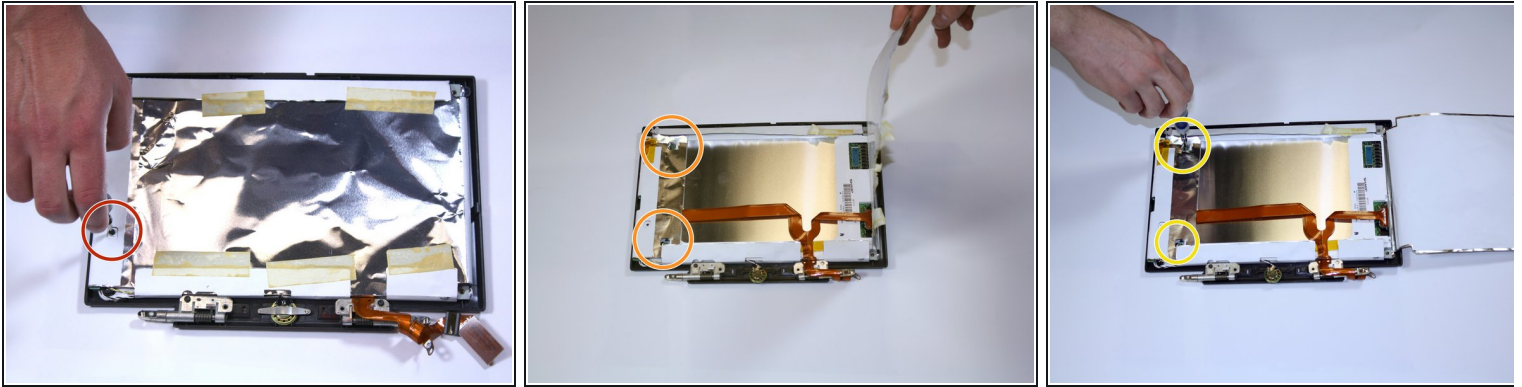
- Remove the four screws holding the bezel to the back display housing.
- Turn the display face down with the Apple logo facing towards you.
- Starting at the bottom of the display housing, carefully pry the plastics apart at the six inner latch locations using a spudger.

Step 9



- Use a prying tool to open the two halves of the display assembly.
 - Lift the top half away from the bottom half to expose the inverter board.
 - Look for the barcode on the left to be sure you have reached the inverter board.
- i** As part of the PowerBook 190/5300 Repair Extension Program, the two rightmost screws on some displays were replaced with patch lock screws.

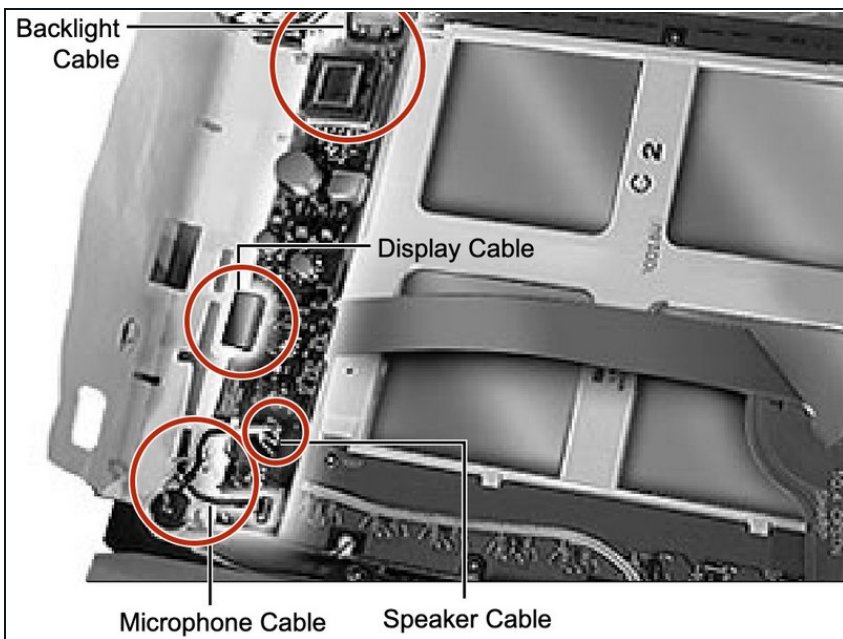
Step 10



- Unscrew the three Torx #8 screws above the white paper backing holding the display to the bezel.
- Unscrew the three Torx #8 screws below the white paper backing.
- Remove the tape and peel back the paper backing to access the screws below. Lay back the display EMI insulator and gently lift the inverter board.

⚠ Use caution; there are four cables attached on three sides of the board.

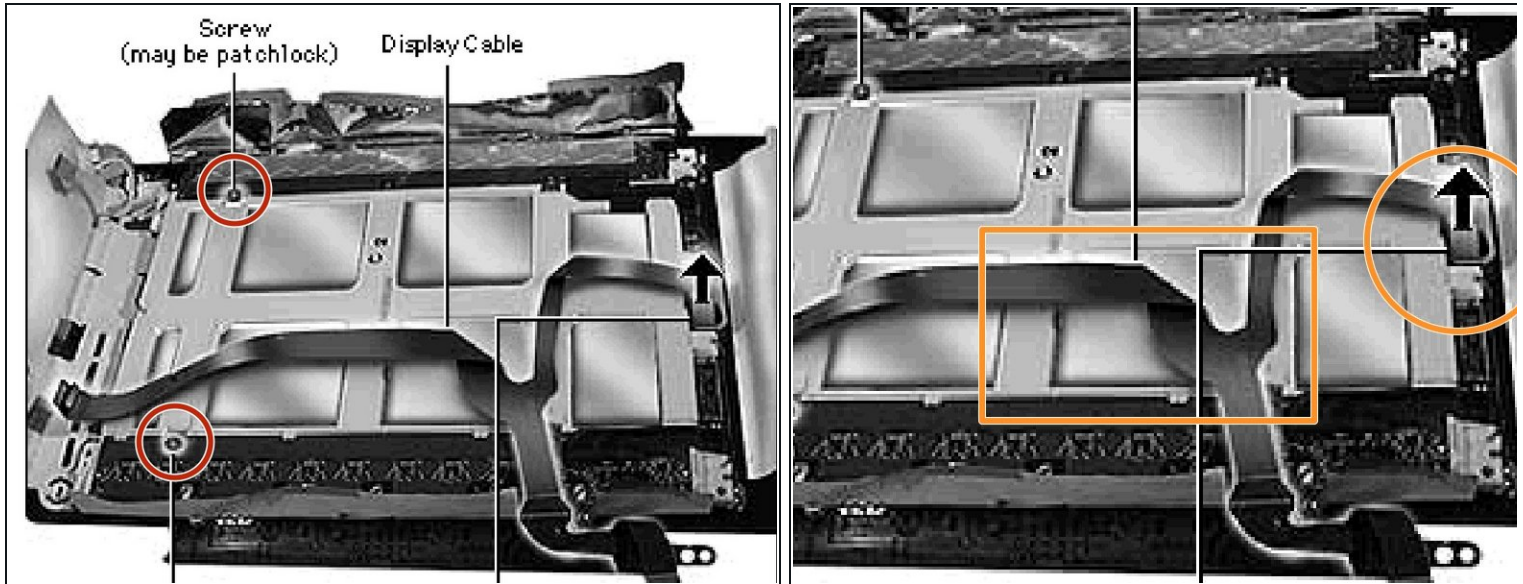
Step 11



- Carefully, rotate the inverter board so that it is lying face up near the middle of the display.
- Disconnect the four cables from the inverter board.

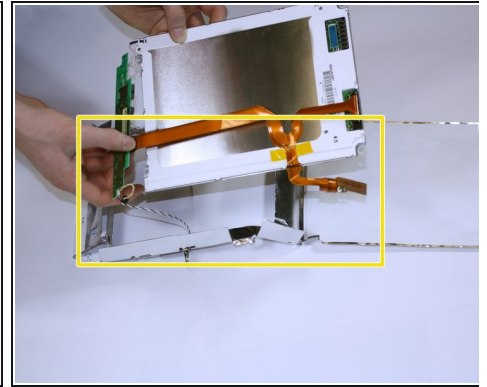
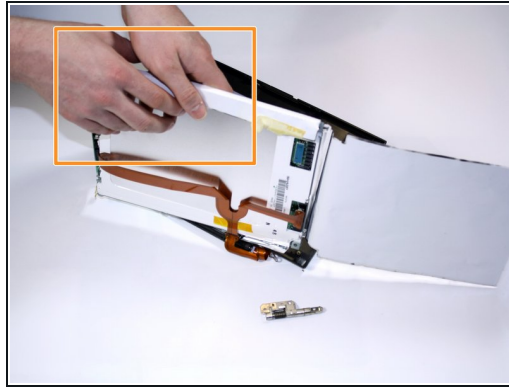
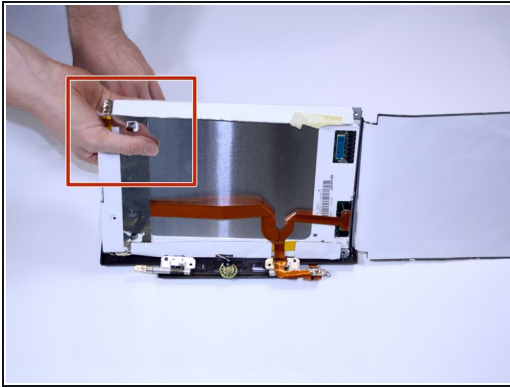
⚠ Disconnect the four cables carefully. The connectors and cables on the inverter board are fragile, especially the microphone cable.

Step 12



- Remove the two remaining screws holding the display to the display bezel.
- Disconnect the display cable from the display by gently pulling straight up on the reinforced backing of the cable.

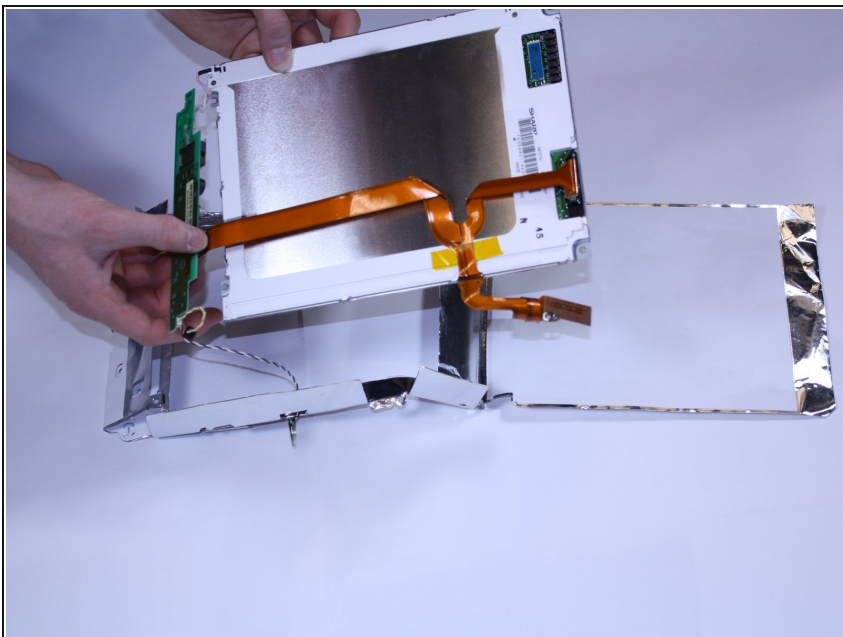
Step 13



- Lift the entire paper and monitor assembly out of its casing. Remove the display from the bezel.
- Remove the display EMI insulator.
- Pull up the actual monitor out of its paper shell.

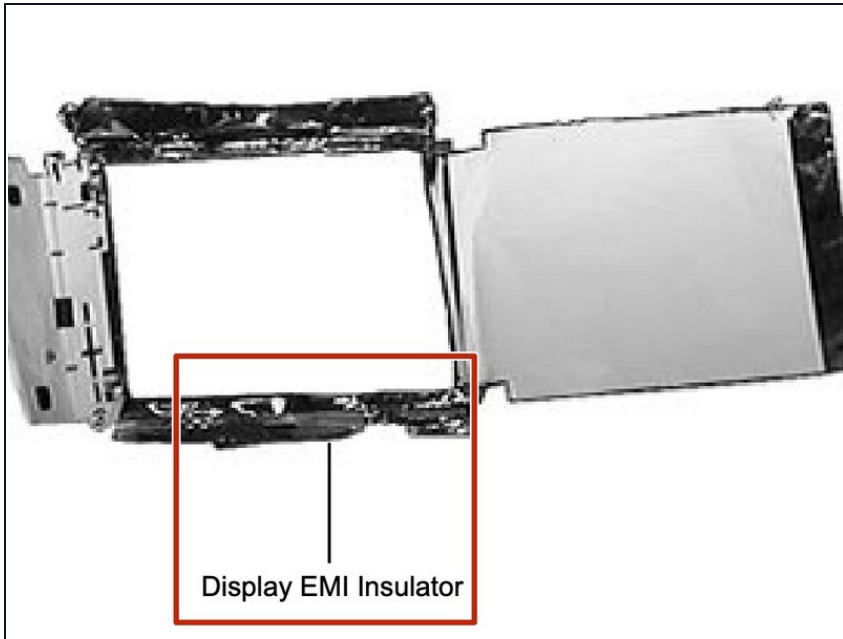
⚠ Potential for device damage: Be careful not to rip the paper. Watch out for any other wires that might get caught and the speaker cable which is connected to a speaker in the front of the monitor casing.

Step 14



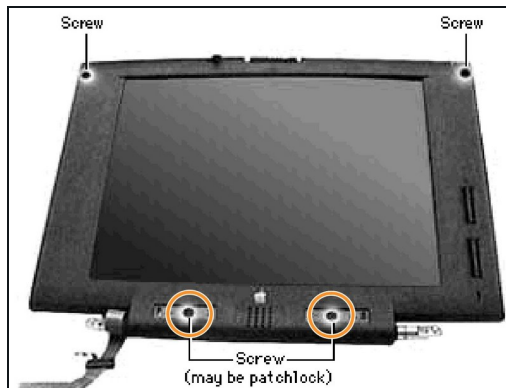
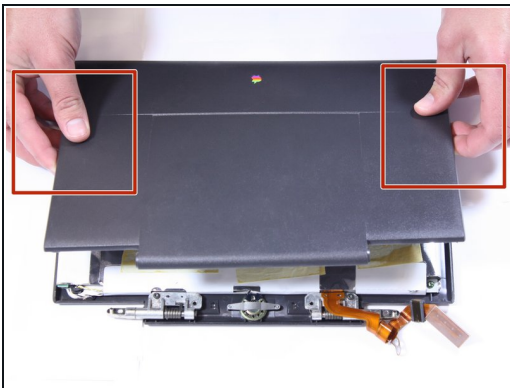
- Remove the entire display EMI insulator from the casing.

Step 15



- Replace the new display EMI Insulator.
- ❗ Repeat steps 4-11 to replace the display screen on the purchased replacement monitor.
- ★ If you want to replace the entire monitor, follow steps 1-3.

Step 16



- Replace the screen cover after following steps 7-12 in reverse order.
 - Turn over the display and replace the four bezel screws.
 - Follow steps 1-5 in reverse order to attach the monitor and keyboard back to the unit. Then turn on the laptop to ensure the display is properly working.
- ⚠ Overtightening the lower two bezel screws can cause the bezel to crack. As a test, open and close the display assembly once the screws are installed. If the display creaks, loosen the bezel screws.

To reassemble your device, follow steps 1-12 in the instructions in reverse order.