



Acer Iconia One 7 Repairability Assessment

Repairability assessment of the Acer Iconia One 7 Tablet, performed on February 9, 2017.

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INTRODUCTION

We dismantled the Acer Iconia One 7 and found it to be extremely repairable with only 8 components.

TOOLS:

- [iFixit Opening Tools](#) (1)
 - [iFixit Opening Picks set of 6](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Tweezers](#) (1)
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Step 1 — Acer Iconia One 7



- Reference photos with packaging.

Step 2



- Entry method is to remove the rear bathtub case, the seal is easy to break with opening tools.
- The bathtub case is attached to the front display panel by soft plastic clips and without adhesive.
- ⓘ A spring connector connects the motherboard to the bathtub case so no need to worry about damaging fragile cables during removal.

Step 3



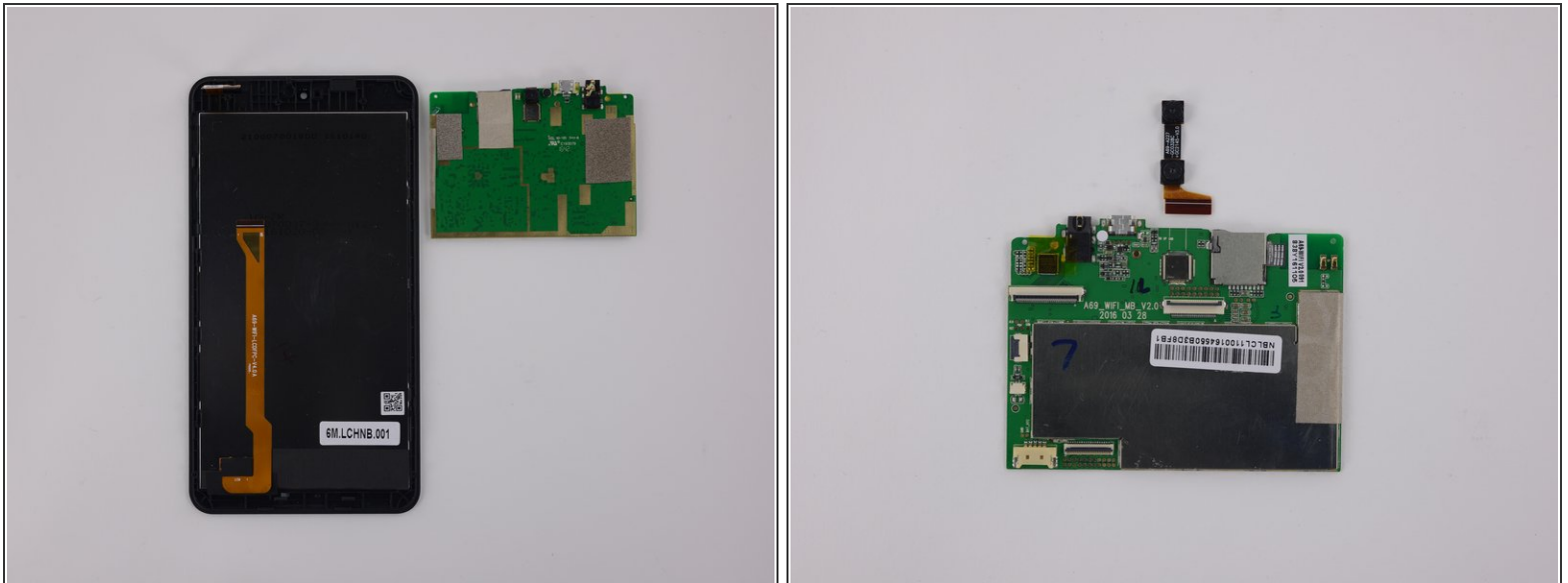
- The battery cable runs short and requires a careful and precise wiggle to remove its connection from the motherboard.
 - Only two adhesive pull tabs secure the battery. This is preferred over adhesive which requires heat and prying to separate.
- i** The adhesive strips will need to be replaced after removal.

Step 4



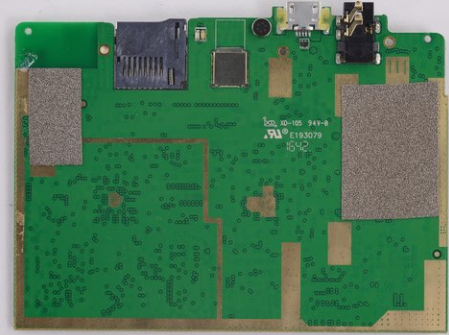
- Layer of components removable upon opening: power/volume button cable, loudspeaker.
- The power/volume button cable is lightly secured with adhesive.
- Two Phillips #0 screws secure the loudspeaker housing.

Step 5



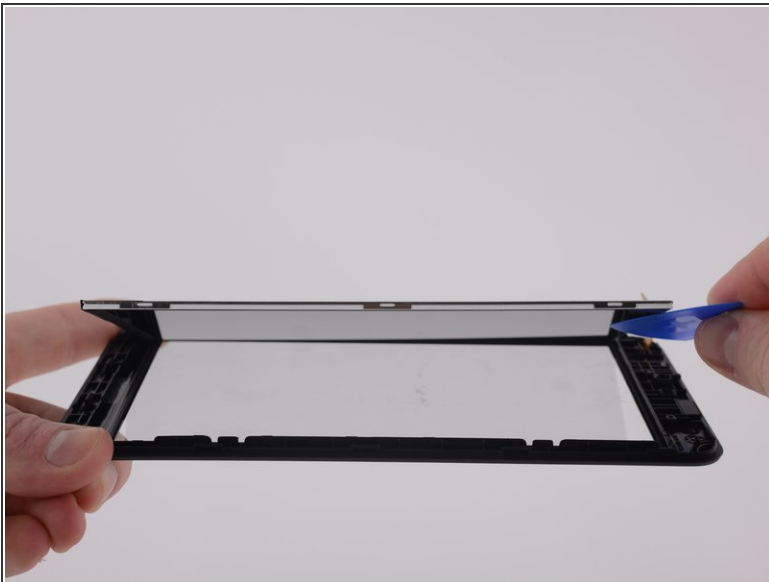
- The display, digitizer, and camera cables can be disconnected without removing the motherboard.
- The motherboard is secured to the display frame by three Phillips #0 screws.
- The Micro-USB port, headphone jack and microphone are soldered to the motherboard. These are common failure points and it would be better if they could be individually replaced.
- The front and rear camera are tethered and will need to be replaced together if one where to fail.

Step 6



- Motherboard reference photos.

Step 7



- The digitizer is fused to the front case but the LCD display can be isolated by unclipping it from the assembly with an opening tool.

Step 8



REPAIRABILITY SCORE:



- The Acer Iconia One 7 earns an **8 out of 10** on our repairability scale (10 is the easiest to repair):
 - LCD and front glass are not fused and can be replaced individually.
 - Battery is easy to replace.
 - Modular design allows replacement of many individual parts.
 - Standard Phillips screws used throughout.
 - High wear components soldered in place, which increases replacement costs.
 - Manufacturer does not provide user-accessible repair documentation.