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)
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.

ℹ️ 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.

  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 were 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

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.