iBook iPad Case

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https://learn.adafruit.com/ibook-ipad-case

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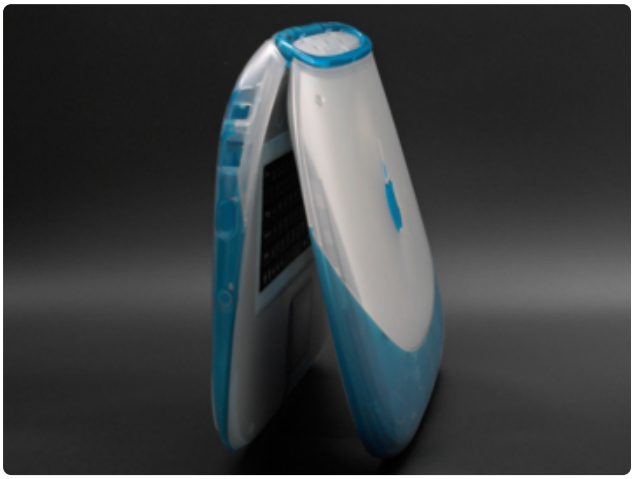
Overview



Use an iBook as an iPad case!

You can retrofit an iBook G3 with an iPad Pro using 3D printing and parts from Adafruit.

Relive the retro days with this case for an iPad. Upcycle an old iBook and use shell to hold a keyboard and trackpad and an 11" iPad.

3D printed inserts make a non destructive build that allow you to easy remove the iPad and keyboard.

The project is a simplified build inspired by: https://9to5mac.com/2022/10/31/ibook-g3-ipad-and-iphone (https://adafru.it/18ld)

Frame Insert

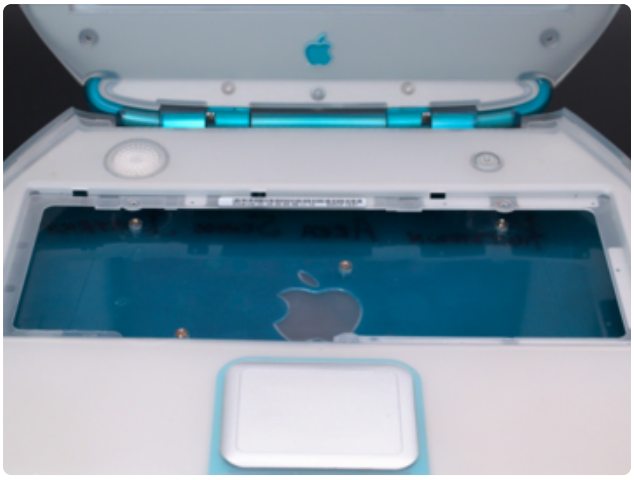
The iPad can pop out thanks to the integrated cutouts designed into the 3D printed insert.

The printed display frame features indents for power and volume buttons with enough space to fit adapters for the wireless keyboard.

Keyboard insert

A 3D printed tray houses the keyboard and is designed to snap fit into the iBook's clamshell.

The keyboard insert press fits into the existing cutout. The insert allows the wireless keyboard sit flush inside the shell.



Extra storage

Space under the keyboard can be used to add additional components like a Qi charger for a watch!

iBook Model

We found this model on eBay for $150.00 in July of 2022

The model listed is: iBook G3/300 (Original/Clamshell) M7707LL/A

Apple Device Identifier: m2453

We didn't need a working model just the shell!

Parts

Full Size Wireless Keyboard with Trackpad
The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox - sorry! We were practicing our typing ON THIS AWESOME...
https://www.adafruit.com/product/2876

Magnetic Right Angle USB Type C Adapter - 120W Data and Power
We picked up this adapter to 'MagSafe'-ify our laptop and found it so handy we figured we'd stock it in the shop as well. This is a right-angle Type C adapter, capable of...
https://www.adafruit.com/product/5521

USB A Socket to USB Type C Plug Adapter

If you've got a computer or laptop with a USB C port, but you're itching to use one of our fancy new...

https://www.adafruit.com/product/5030

Magnetic USB Type-C Plug Tip

This is a magnetic USB Type C plug! They pair with the

https://www.adafruit.com/product/5524

Precision Torx Screwdriver Set (6 pieces)

Break seals! Void warranties! With this handy Torx driver set at your hands, all hardware you touch will open up and reveal their secret innards.This set contains 6 torx...

https://www.adafruit.com/product/452

Get the appropriate USB cable depending on your charging end:

1 x USB C to USB C Cable — https://www.adafruit.com/product/4199

One meter long

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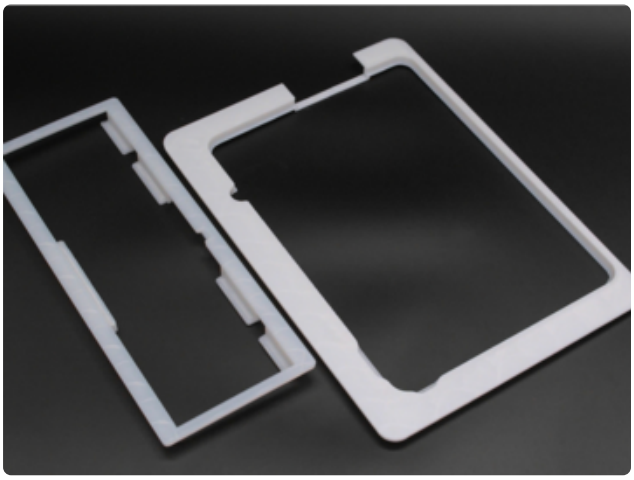
1 x USB A to USB-C Cable — https://www.adafruit.com/product/4474

One meter long

3D Print



Parts List

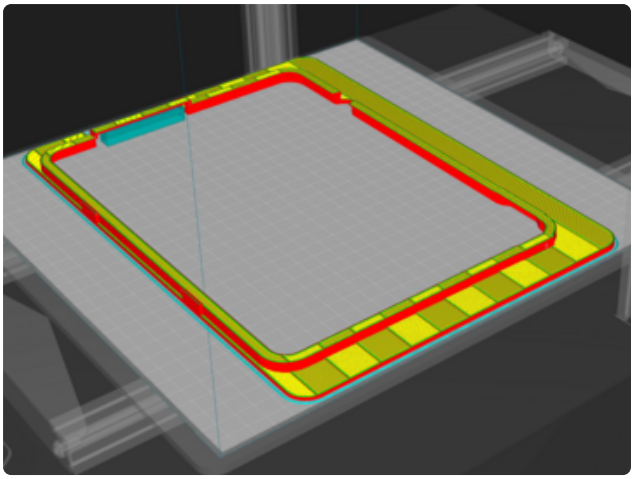
STL files for 3D printing are oriented to print "as-is" on FDM style machines. Parts are designed to 3D print without any support material. Original design source may be downloaded using the link below.

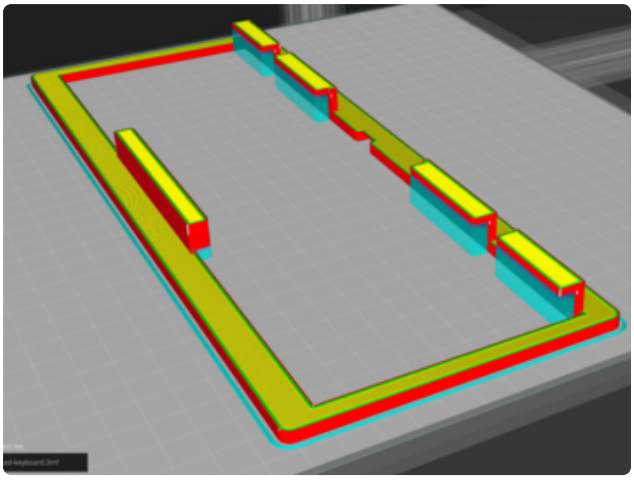
Download CAD Source

https://adafru.it/1a0l

Download STLs

https://adafru.it/18lf





Slice with settings for PLA material.

The parts were sliced using CURA using the slice settings below.

PLA filament 220c extruder
0.2 layer height
10% gyroid infill
60mm/s print speed
60c heated bed

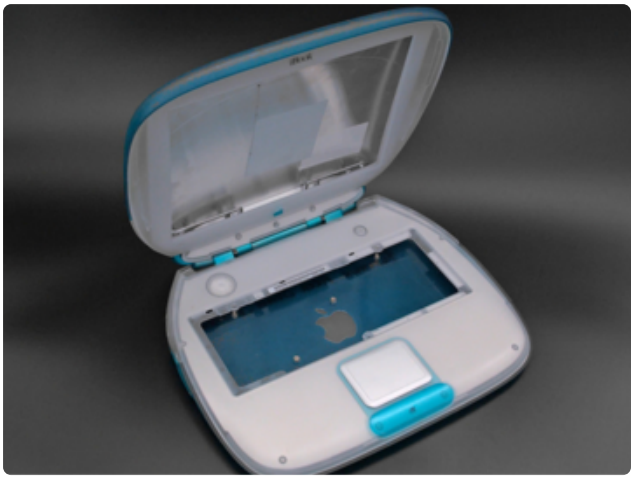
Supports

Support Extrusion Width: .2
Support Density: 4%
Support Overhang Angle: 50
Support Z Height: .21
Interface: On
Support Roof: On
Support Pattern: Zig Zag

Build Plate Adhesion

Type: brim
Line Count: 6

Assemble

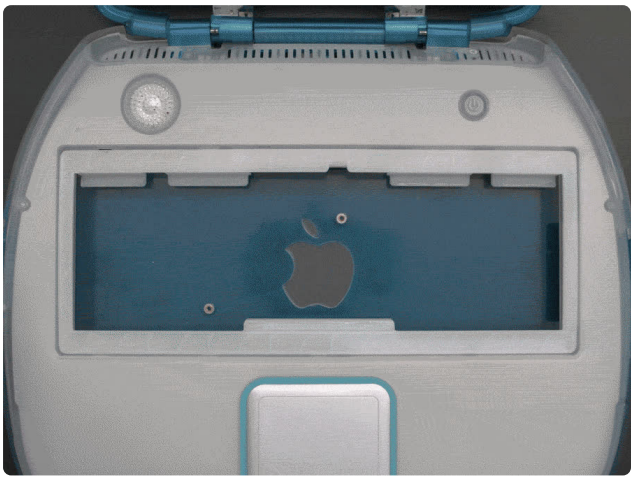


Gut iBook

Remove the old components from the iBook shell.

All of the internal components are removed from the iBook leaving the clam shell. The case itself does not need to be cut or modified.

Only six T8 torx screws are required to hold the shell together for this build. Fasten the first two screws on each side of the bottom shell as shown here.



Keyboard insert

Align the two cuts on the keyboard insert to the shell and press fit at an angle.

Align the keyboard's power switch to the cutout on the insert to press fit into place.

Screen Frame

Place the printed screen frame in the shell with the two protroding tabs next to the hinge.

Adapters

Assemble the USB adapters so the magnetic right angle points away from the volume buttons.

Insert iPad

The iPad press fits into the display frame with the adapters attached.

Place Frame

The assembled insert is place inside the shell. The original display frame is press fitted over the printed iPad insert.

Display frame screws

The second set of Torx screws are fastened on each side of the display frame.

Frame screws

Fasten the last set of T8 Torx screws to the back panel, this will secure the display frame to the shell.

Complete!

The handle itself is fully intact and functional making this one of the coolest parts of the build!