



Apple Lightning to Headphone Jack Adapter Teardown

Amazing feat to place this technology into that size.

Written By: oldturkey03



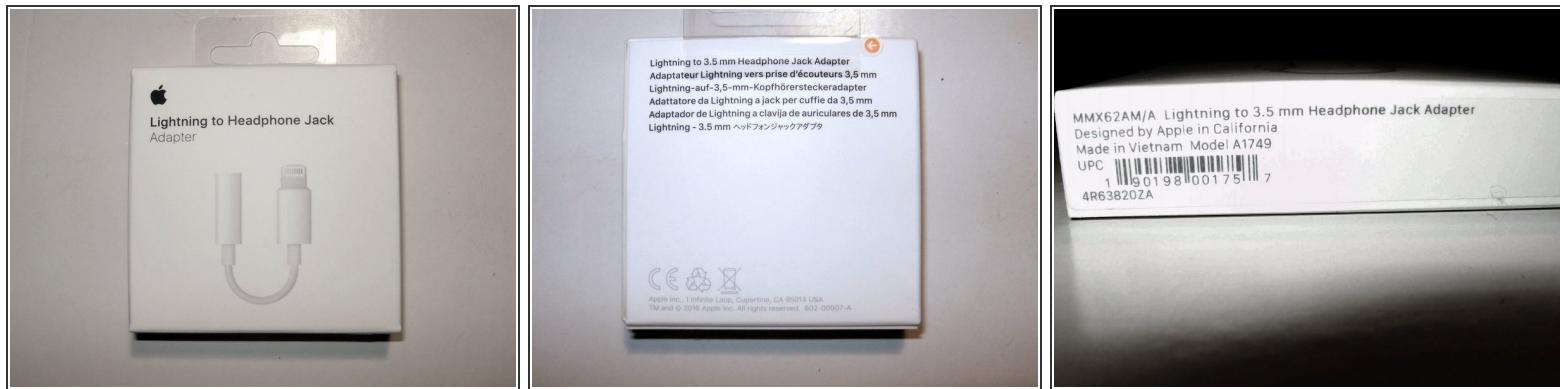
INTRODUCTION

This is definitely a destructive teardown. Hopefully it will help to show how the adapter was put together. Also that it does have a DAC on the adapter, not the lightning connector on the iDevice.

TOOLS:

- Precision Utility Knife (1)
- Flush Macro Cutter Heavy Duty C.H.P. TRR-5000 (1)

Step 1 — Apple Lightning to Headphone Jack Adapter Teardown



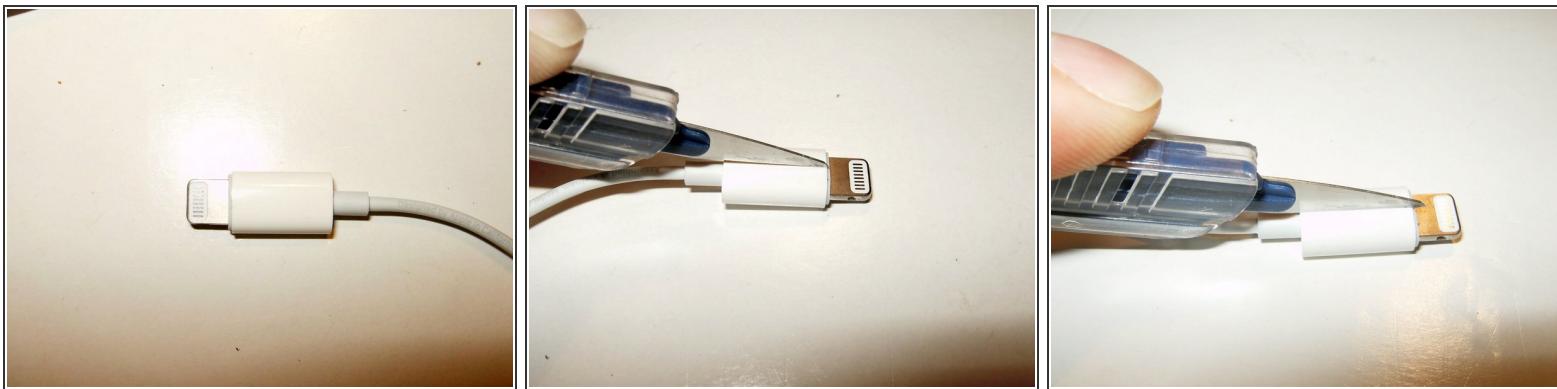
- Typical Apple product packaging. Simple yet elegant
- Backside of the package
- Bottom of the package describes the adapter as a A1749

Step 2



- Again, nice packaging for the adapter.
- The total length of the adapter is 3 1/8 inches or 8cm. One side with the lightning connector and the other end is the 3.5mm headphone jack.
- Checked to see if there was any way to remove the outside of the adapter by slipping some thin tools in between. No way on that.

Step 3



- This is the business end that requires the removal of the covering.
- The only way to do that is by cutting into it. Using a good scalpel does cut it with relative ease.

 Careful while using a sharp instrument, not much room to hold onto the connector.

Step 4 — Cutting the lightning connector open



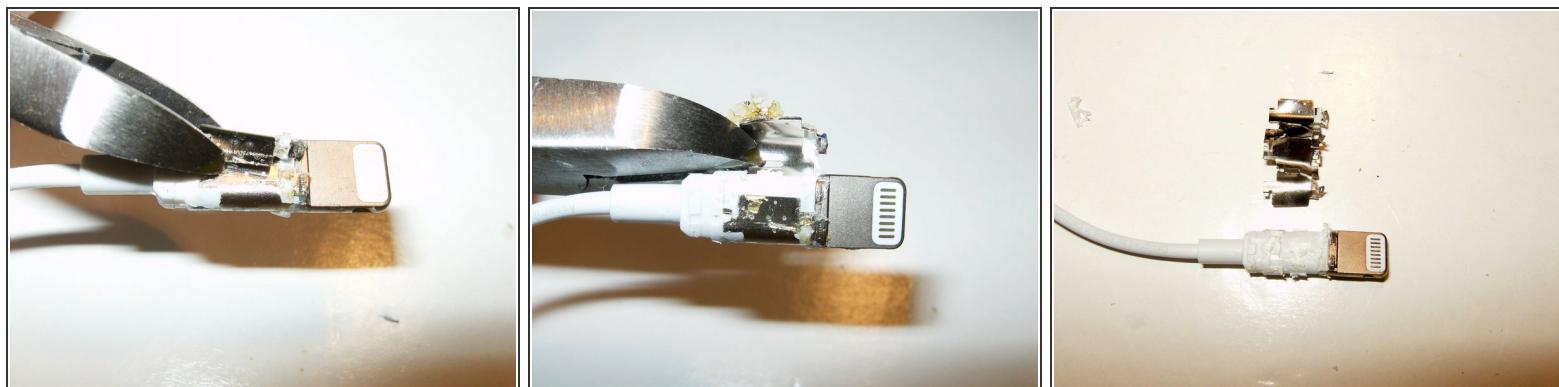
- Cutting length wise on one side
- as well as the opposite site
- Then flipping the two halves that were created by the cuts.

Step 5



- This makes for an easy removal.
- The next thing to be removed is the ground shield.
- Using a pair of small side cutters that shield is easily removed as well.

Step 6



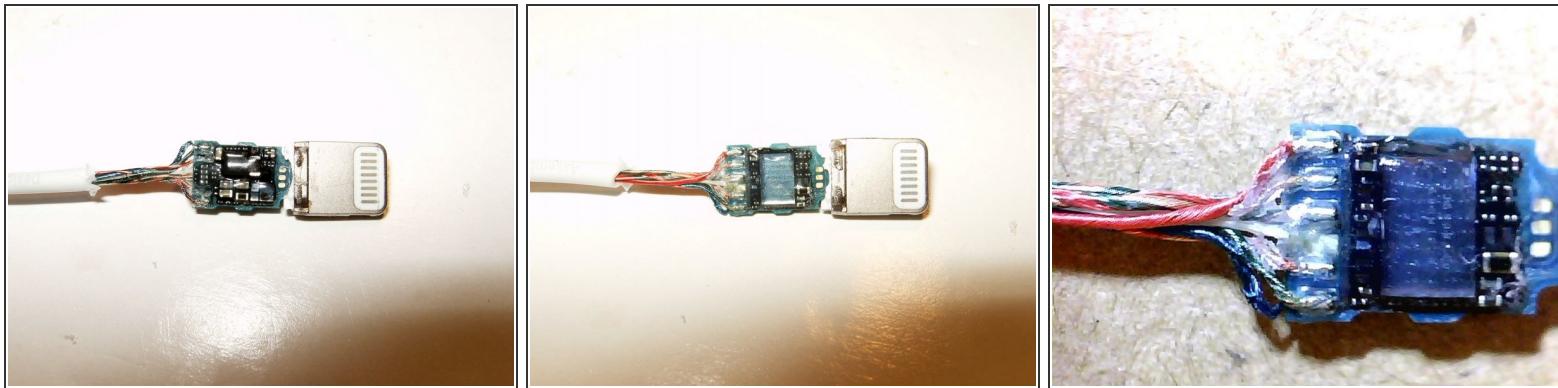
- Just a matter of using the cutters on one end
- and rolling it around the connector.
- This shows the destructive nature of this teardown

Step 7



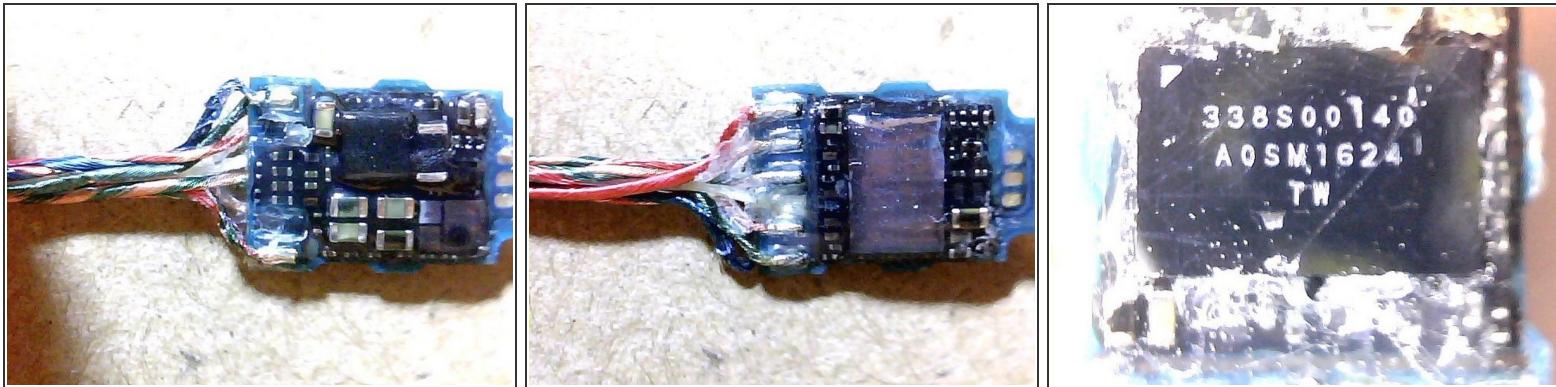
- The connector is now left with another plastic covering.
- Luckily the removal of the ground shield seems to have open slots lengthwise in the plastic covering.
- Using these slots, the plastic needs to be carefully pulled away from the circuit board.

Step 8



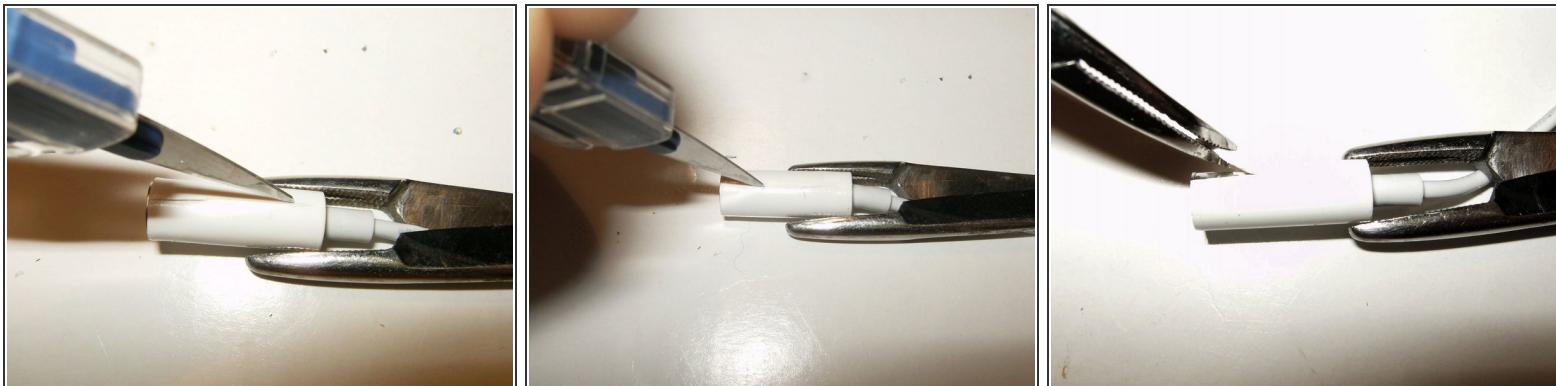
- Here is the business end with the cover removed.
- This side shows what appears to be the DAC inside this adapter
- Close-up of the circuit board shows Apple's fascination with adhesive and other sticky substances. Both sides of the circuit board are covered with it.

Step 9



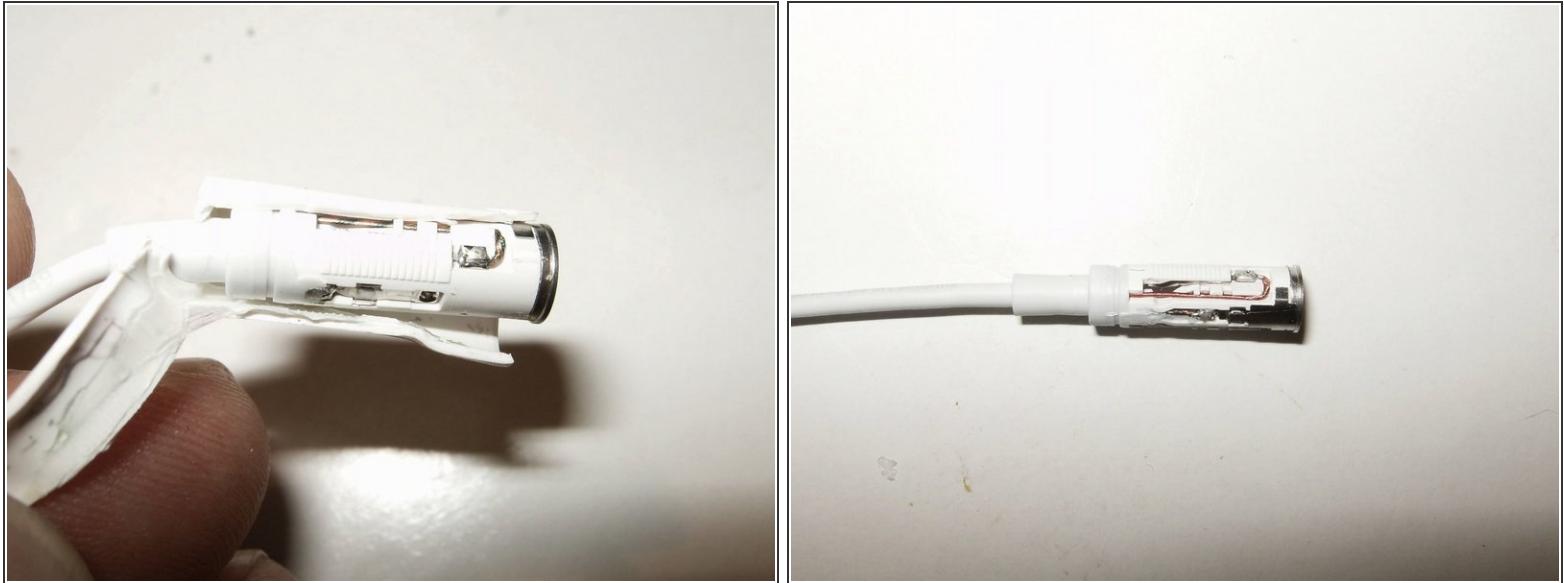
- A bit more of a close up of one side
- as well as the other. As more information becomes available about the DAC this teardown will be edited to reflect those.
- Here are the markings on the DAC 338S00140 A0SM1624 TW

Step 10 — Cutting the headphone jack open



- Carefully slice down the headphone jack connector with a sharp knife, being careful to not cut yourself.

Step 11



- Insert wisdom here.

Step 12 — Final Thoughts



- Repairability score: **0 out of 10**
 - The device is clearly not meant to be opened or repaired in any way.
 - It is impossible to open the adapter without destroying it.