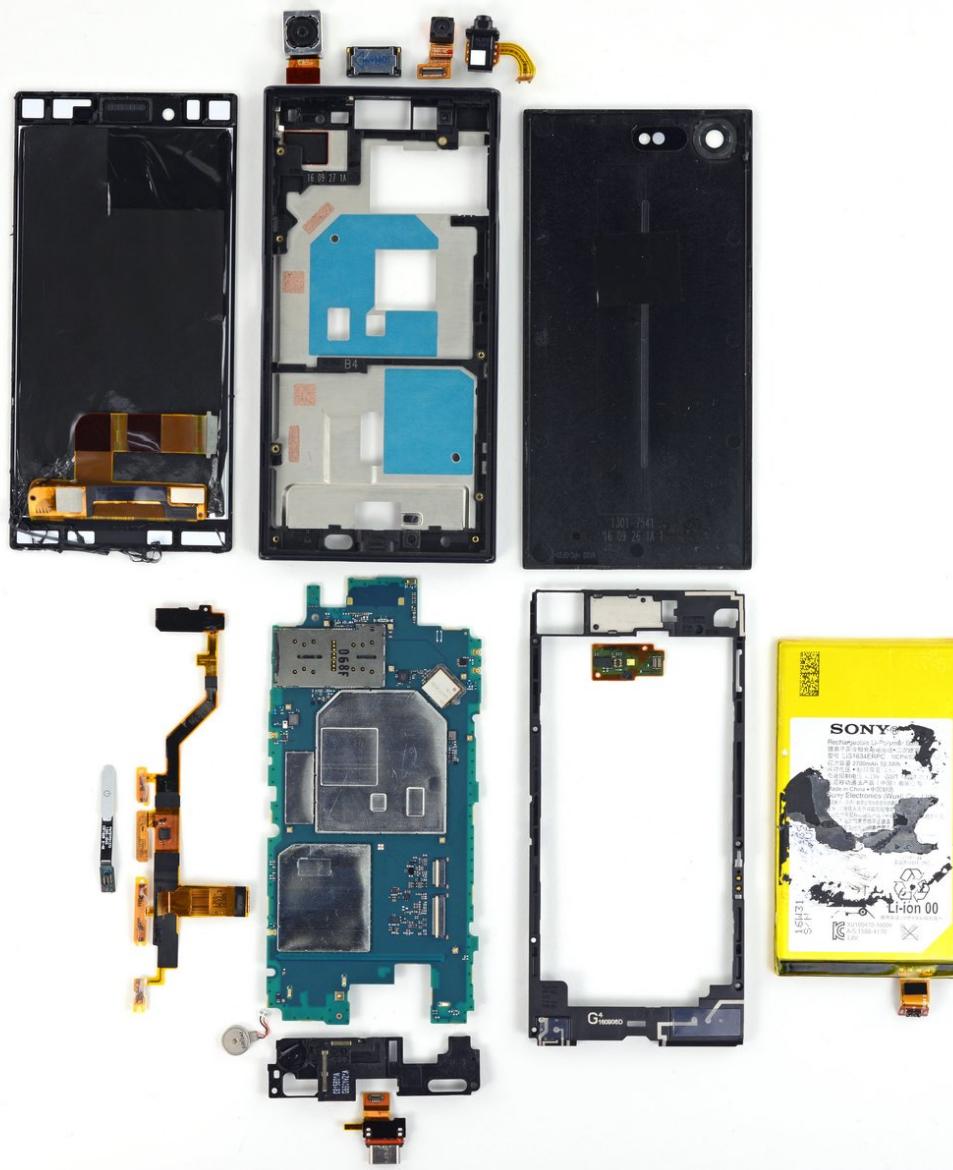




Sony Xperia X Compact Repairability Assessment

Sony Xperia X Compact repairability assessment performed February 10, 2017.

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INTRODUCTION

The fused display and globs of adhesive get the Sony Xperia X a repairability score of 6 out of 10.

TOOLS:

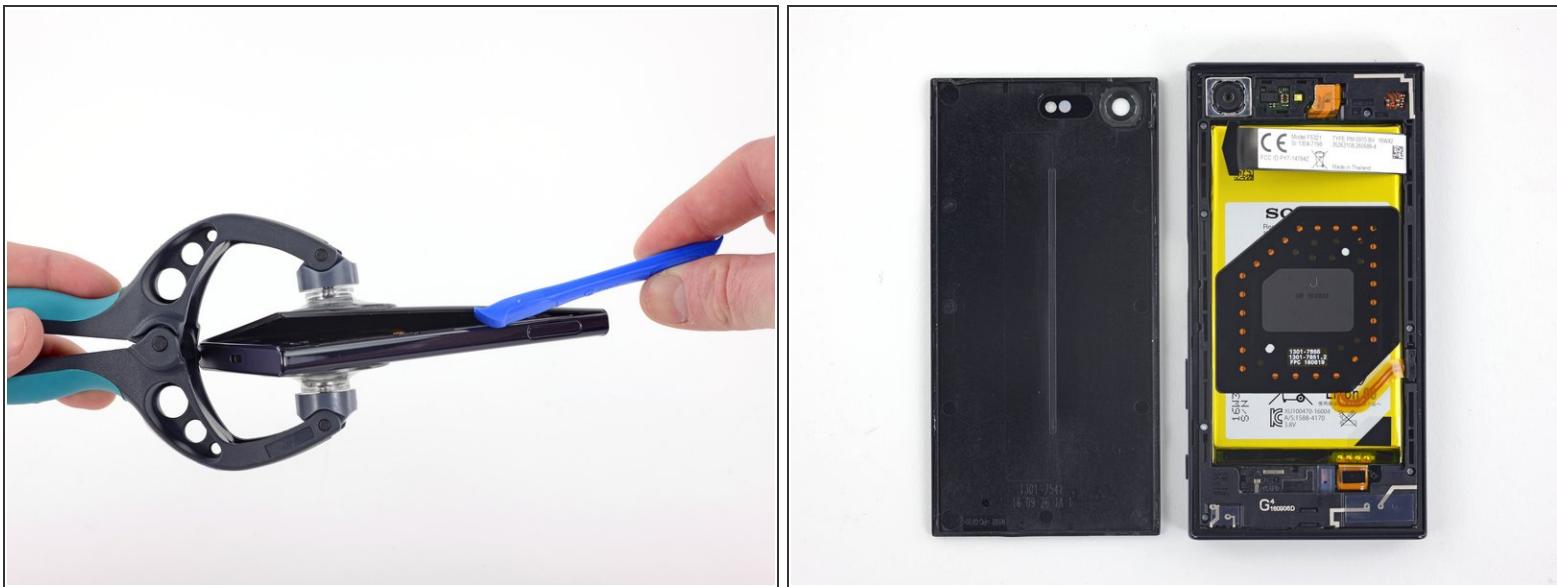
- [iFixit Opening Tool](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [iOpener](#) (1)
- [iSclack](#) (1)
- [iFixit Opening Picks set of 6](#) (1)

Step 1 — Sony Xperia X Compact Repairability Assessment



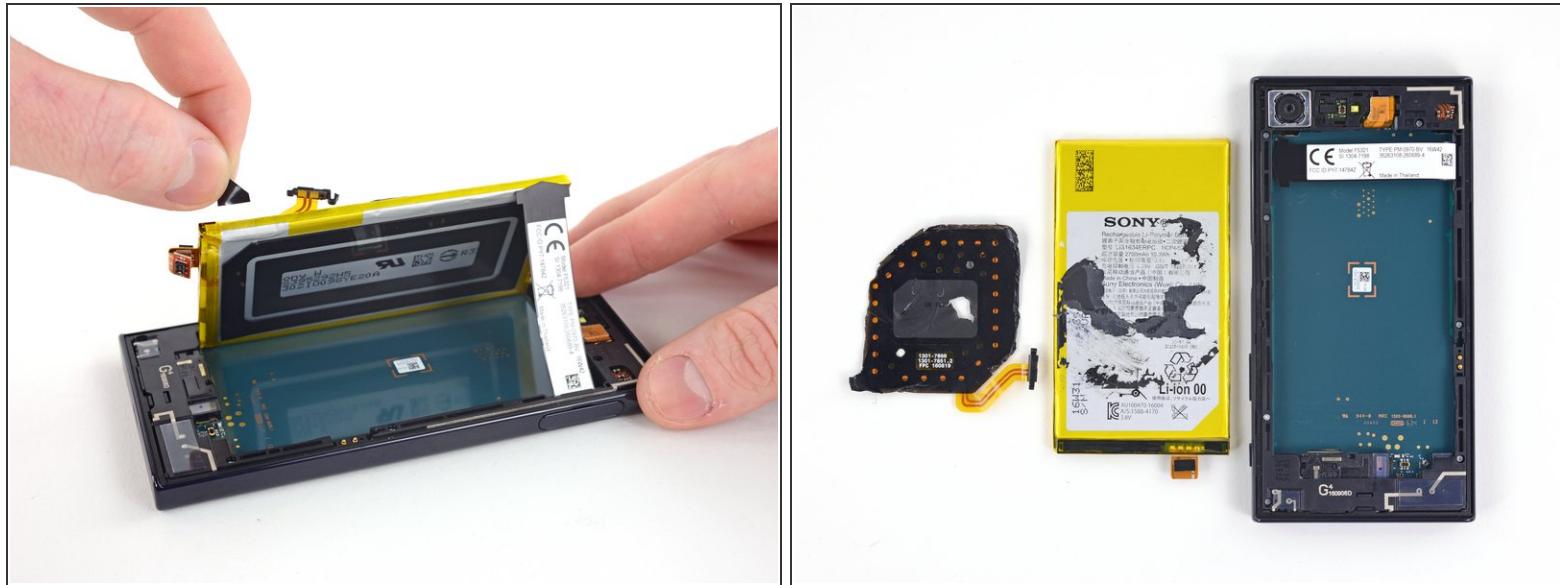
- Packaging.
- Exterior reference photos.

Step 2



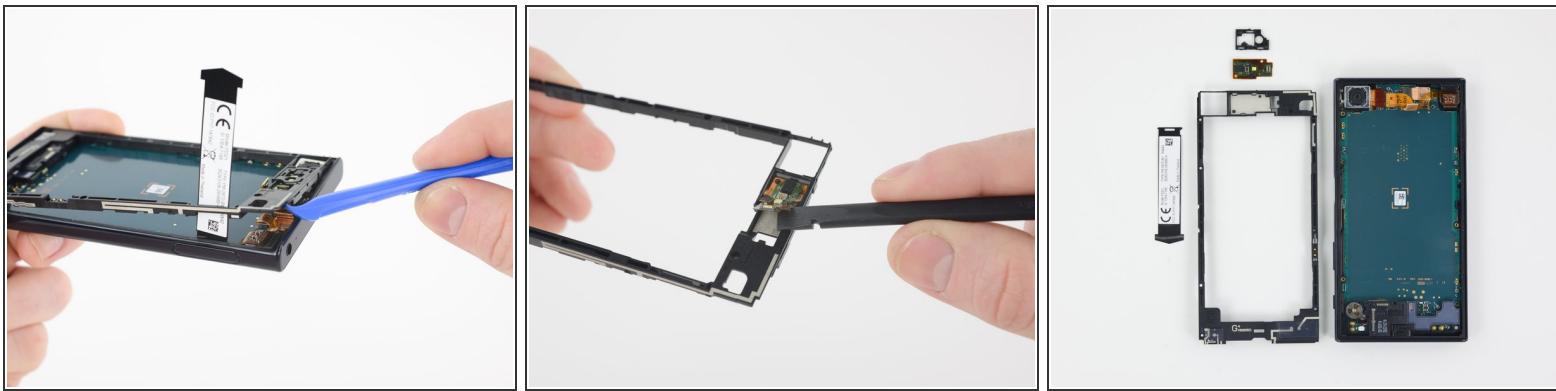
- There are no exterior screws. The back panel is secured to the phone with medium strength adhesive.
- Applying heat to the back panel softens up the adhesive, allowing an iSclack or other suction cup to separate the panel from the phone.
- An opening tool can pry the plastic case the rest of the way off.
- The rear panel contains no additional parts or cables.

Step 3



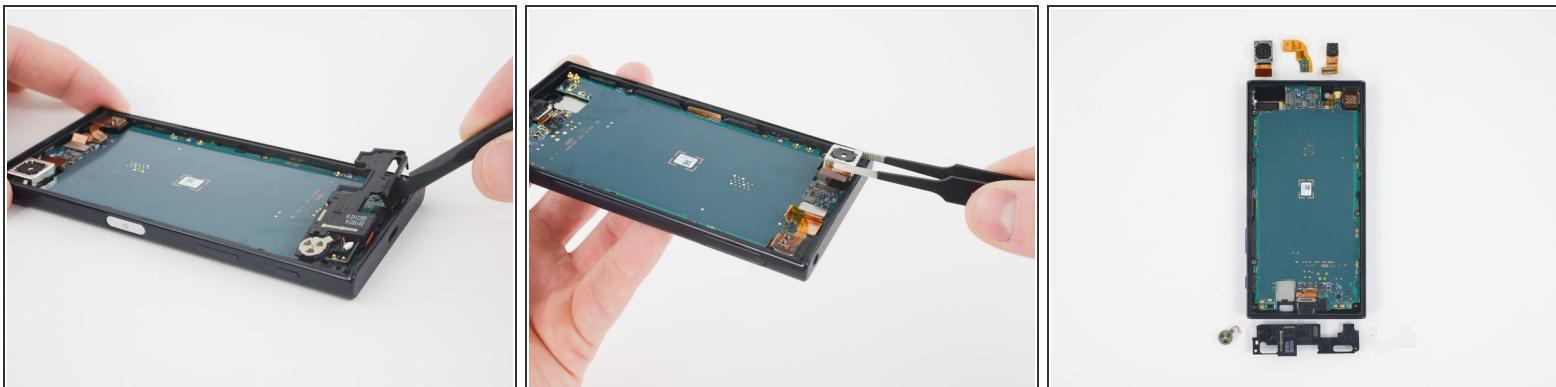
- Battery disconnection is straightforward, but to remove the battery you also have to disconnect the NFC antenna cable. The ID tag is not adhered and doesn't obstruct removal.
- The battery assembly is adhered, but has a pull tab, making battery removal fairly easy.
- The NFC antenna must be peeled off of the battery in order to replace either component.
 - The adhesive securing the antenna is quite strong, and since tools should not be pressed into the battery, it must be ripped off with brute force.
- *(i)* We damaged the NFC antenna during removal, so replacing the battery may require a new NFC antenna, increasing the cost of repair.

Step 4



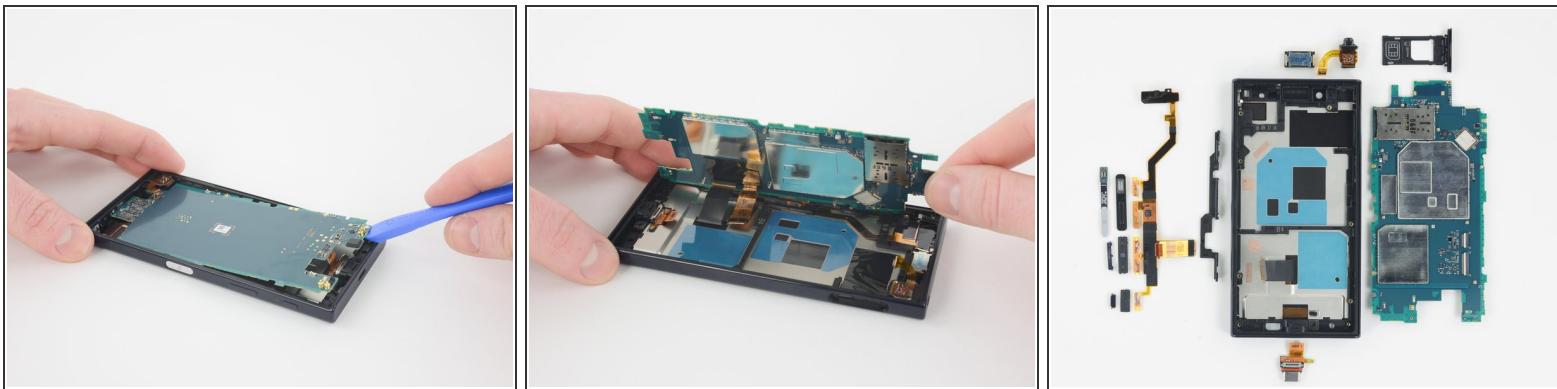
- Ten standard Phillips #00 screws secure the antenna bracket to the midframe.
- Once the midframe is removed, the antenna bracket and Sony identification tab can be removed.
- The final component in the midframe is the LED board .

Step 5



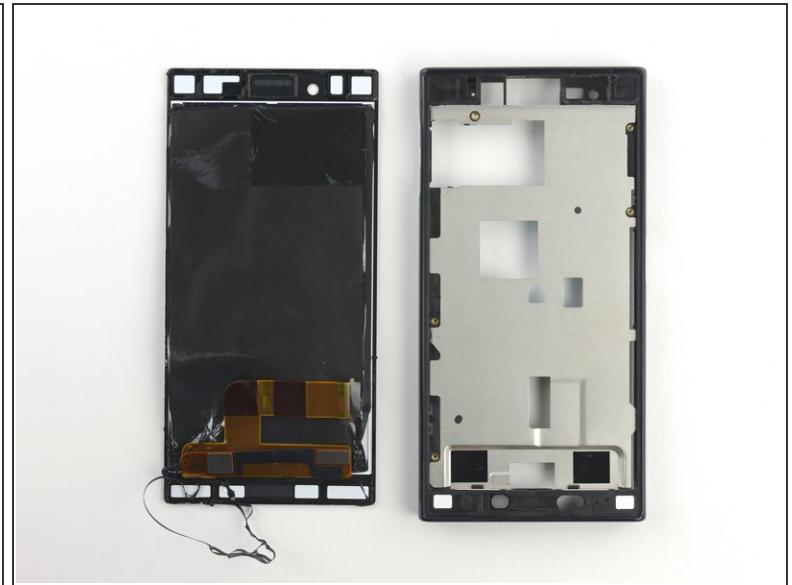
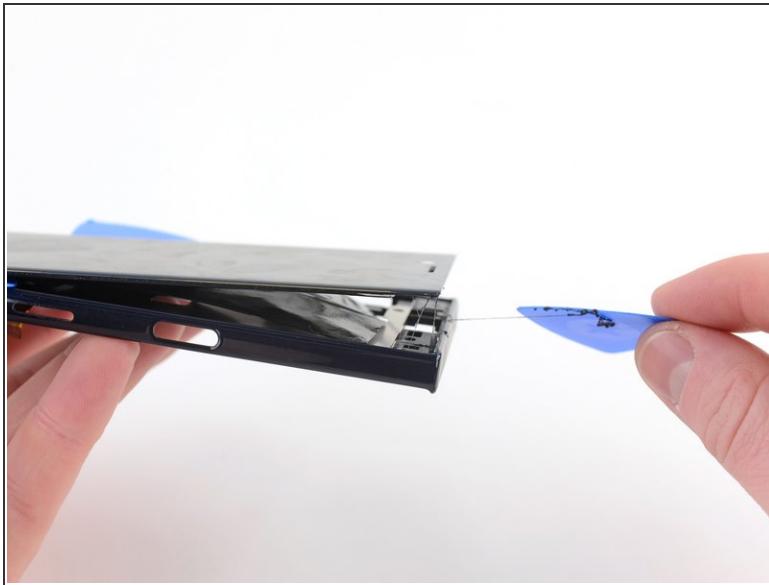
- The speaker, pancake vibrator, front and rear cameras, and LED board interconnect cable can all be removed at this point.
- All use standard connectors or contacts making removal easy.
- Modular parts make for faster easier repairs.

Step 6



- SIM card tray was easily removed with a fingernail.
- The motherboard is secured by light adhesive and was easy to pry up.
- The display and button cables are connected to the underside of the motherboard. However, the cables are long enough that you can tilt the board and disconnect the ZIF connectors without much chance of damage.
- With the motherboard out of the way, we could remove the loudspeaker, headphone jack, USB-C port, button cable, interior and exterior button covers, and fingerprint sensor.
- Modular components, especially high-wear ones like headphone jack and charging port are excellent for repair.

Step 7



- We encountered very tough adhesive when trying to remove the display from the midframe. Even after using a heat gun to soften the adhesive, prying to separate the two components was very difficult.
- *i* Replacing the screen is very difficult, and will also require installing new adhesive, adding to the cost and complexity of the repair.

Step 8



REPAIRABILITY SCORE:



- The Sony Xperia X Compact earns a **6 out of 10** on our repairability scale (10 is the easiest to repair):
 - Modular design allows for replacement of many individual components.
 - Battery is fairly easy to access and remove, but requires removal of the delicate NFC antenna to replace.
 - Adhesive used throughout will need to be replaced during reassembly, and may never be as waterproof again.
 - The fused display assembly is strongly adhered to the midframe and requires disassembling the entire phone to replace.
 - Manufacturer does not provide user-accessible repair documentation.

To reassemble your device, follow these instructions in reverse order.