



# How to fix no image/black screen issue in Sony Xperia Z3

If your Sony Xperia Z3 smartphone shows no image, use this guide to repair your device.

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## INTRODUCTION

If your Sony Xperia Z3 smartphone shows no image but the backlight is working, there may be a problem with the phone's logic board. This problem can occur because of failed screen replacement attempts. Use this guide to repair your device.

Alternatively, see this [Sony Xperia Z3 no image after screen replacement YouTube video](#) for help micro-soldering the logic board.

[video: [https://www.youtube.com/watch?v=q48n99aK\\_Ek](https://www.youtube.com/watch?v=q48n99aK_Ek)]



### TOOLS:

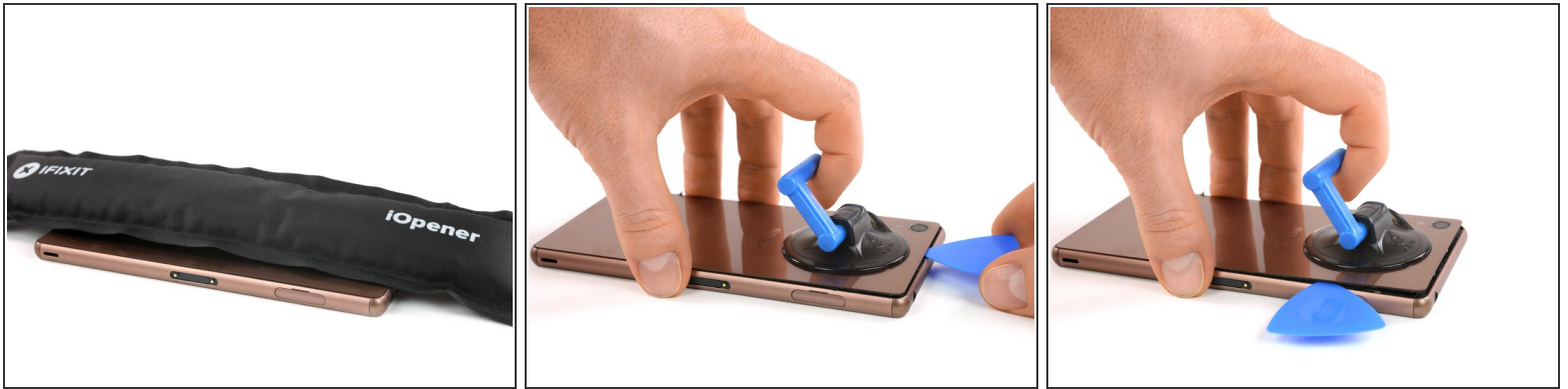
- [iOpener](#) (1)
- [Suction Handle](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)
- [Hakko Microsoldering Starter Package](#) (1)



### PARTS:

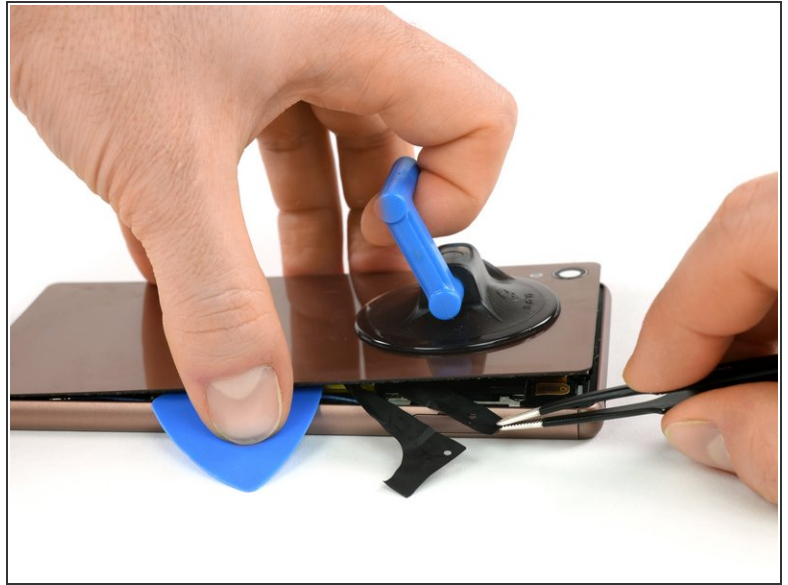
- [Sony Xperia Z3 NFC Antenna](#) (2)


## Step 1 — Back Cover



- Heat the back cover of your Xperia Z3 to loosen the adhesive underneath.
    - ❗ If you use an iOpener, follow these [instructions](#) for use.
  - Lift up the back cover with a suction handle and put an opening pick in the gap.
  - Move the pick carefully around the edges to loosen the adhesive on every side of the phone.
- ⚠ Don't put the pick in too deep under the back cover to not damage any parts inside the phone.

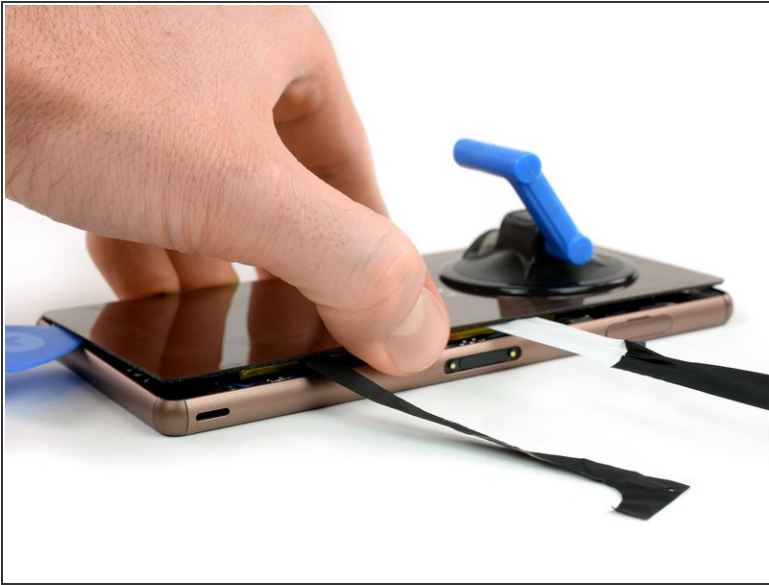
## Step 2



-  There are two adhesive strips in the center of the phone connecting the rear case to the battery, you'll need to remove them to open the phone.
- When the edges of the cover are free from adhesive, tilt it to allow access to the battery tabs.
  - Use tweezers to pull the two black adhesive strips out of the phone but don't pull just yet.



### Step 3



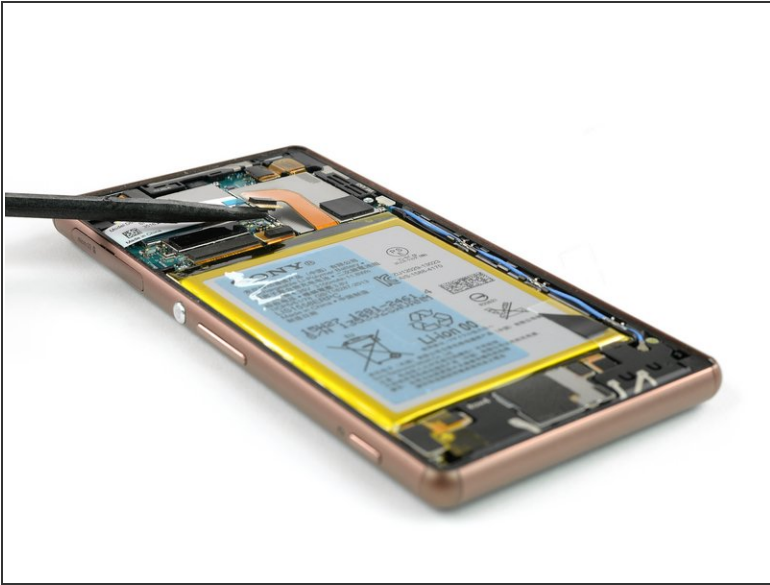
- Gently pull out both of the adhesive tabs out of the phone, parallel to the rear cover.
- ❗ If the adhesive tabs break, try to use a thin flat plastic tool such as a plastic card to remove the last of the adhesive. If the adhesive is stubborn, heat it with an iOpener or hair dryer and pry again.

### Step 4



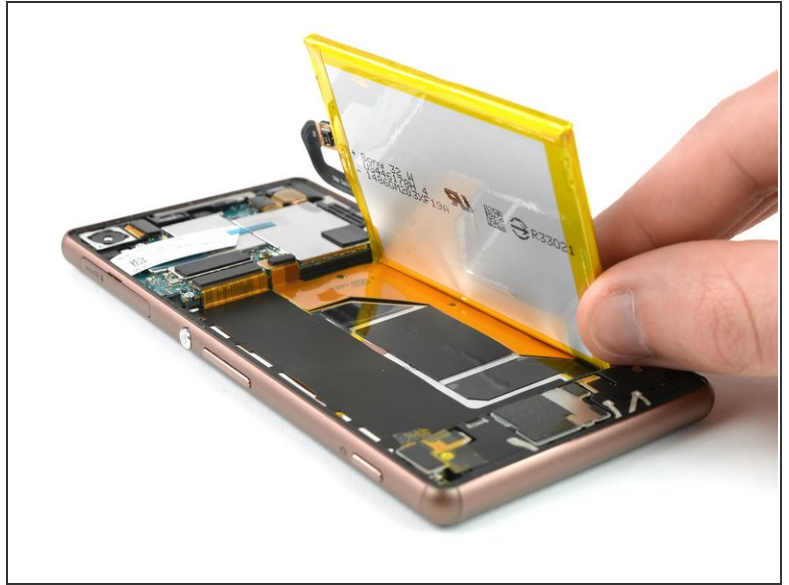
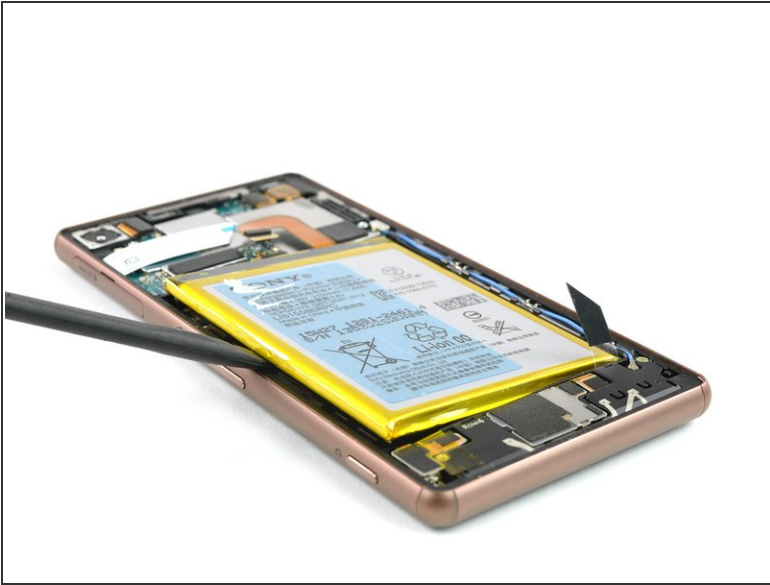
- After pulling out the adhesive tabs, you can lift the back cover and remove it.

## Step 5 — Battery



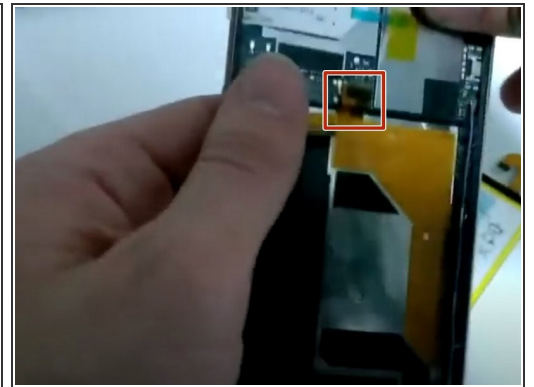
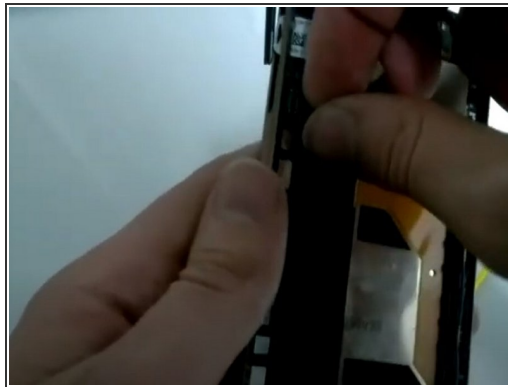
- Unplug the battery flex connector.
- Use a tweezer to gently pull off the adhesive strip on the bottom part of the battery.

## Step 6



- Use a spudger on the left side of the frame to lever out the battery.  
**⚠ Be careful with the spudger - there are cables beneath the battery!**
- Remove the battery.

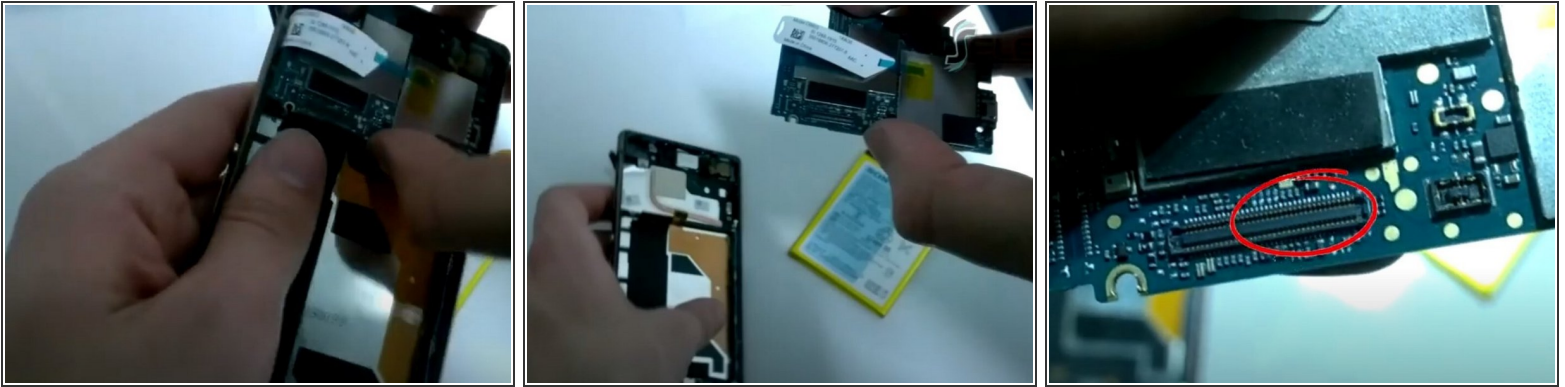
## Step 7 — How to fix no image/black screen issue in Sony Xperia Z3



- Use your fingers or the flat end of a spudger to unclip the cables holding the logic board in place.

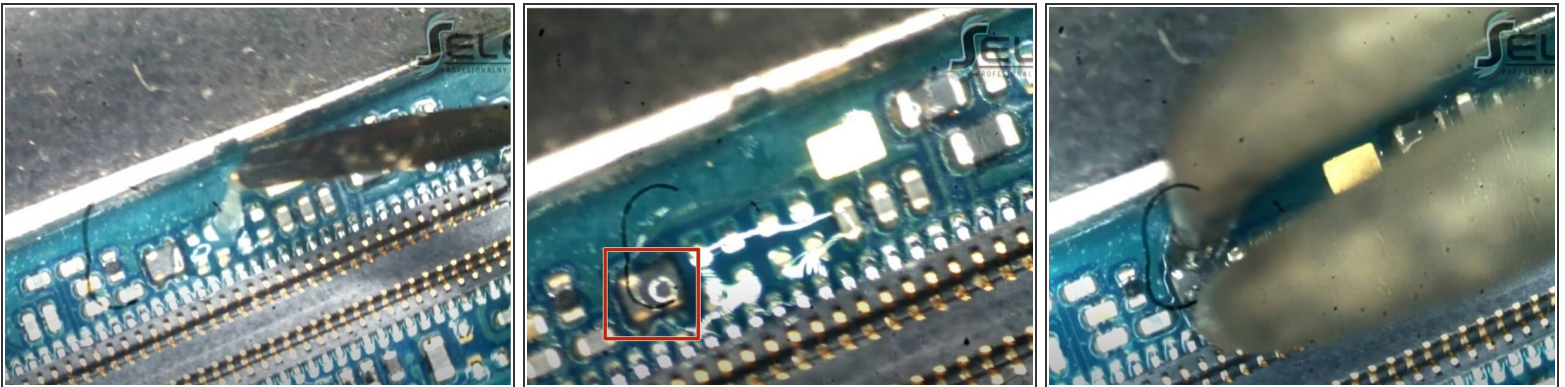


## Step 8



- Use your fingers to remove the phone's logic board.
- Visually inspect the logic board.
  - ⓘ This logic board is missing filters, which were likely damaged when the user attempted to replace the phone's display.

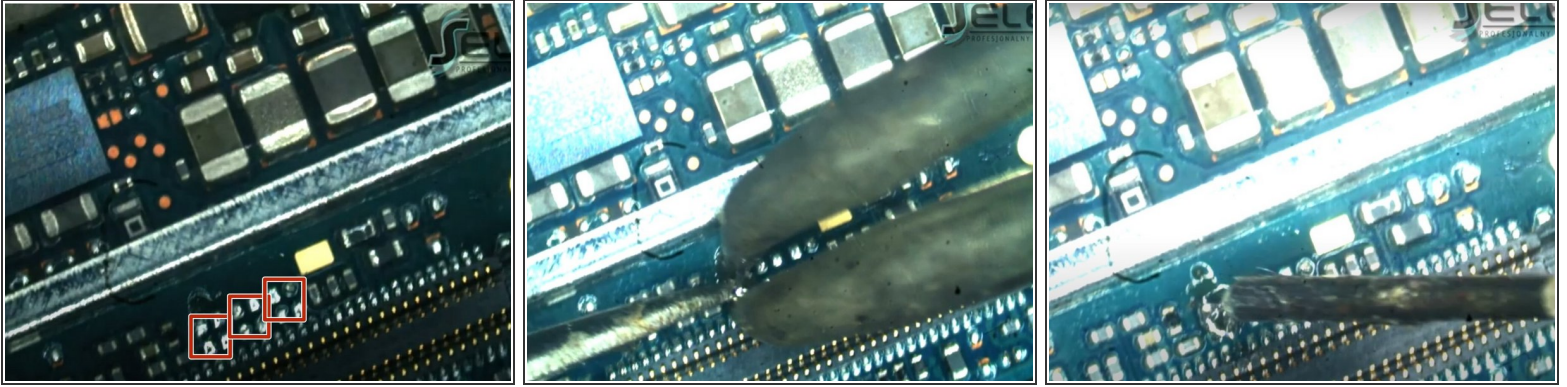
## Step 9



- Apply a small amount of flux to the motherboard's filters.
  - ⓘ In micro-soldering, flux prepares the metal surfaces of the logic board by cleaning and removing impurities.
- Wait at least 30 seconds for the flux to clean the surfaces.
- Use a pair of micro-soldering tweezers to remove the metal square from the filters.

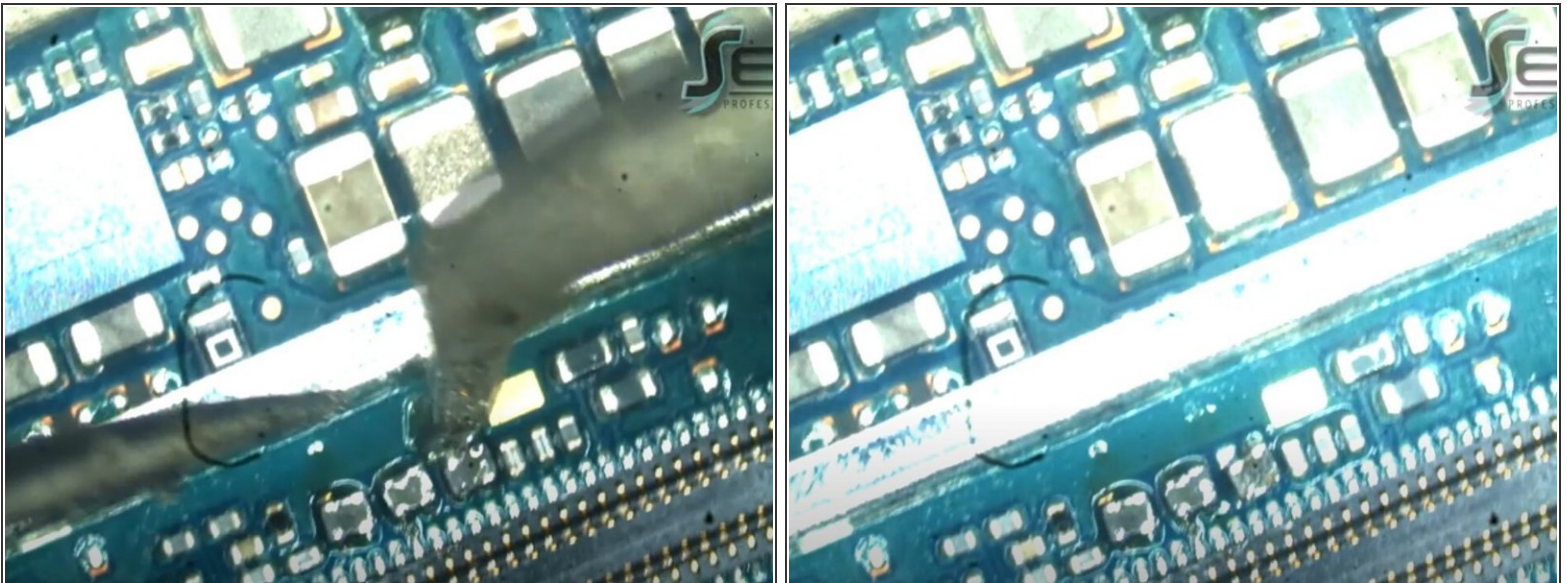


## Step 10



- Apply solder to each of the three sets of four pins now exposed on the logic board.
- After each solder, apply a small amount of flux to the new connection to clean the connection.
- ⓘ Be sure to wait at least 30 seconds after applying the flux so that it can clean and remove impurities.

## Step 11



- Check that each of the connections covers all four of the pins in each set.
- Re-form the solder or add additional solder if the connection does not cover all four pins.

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