



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

Z3

If your Sony Xperia Z3 smartphone shows no...

Written By: Alex Sander



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&t=41s]

TOOLS:

[iOpener](#) (1)
[Suction Handle](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Tweezers](#) (1)
[Spudger](#) (1)
[Hakko Microsoldering Starter Bundle](#) (1)

PARTS:

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

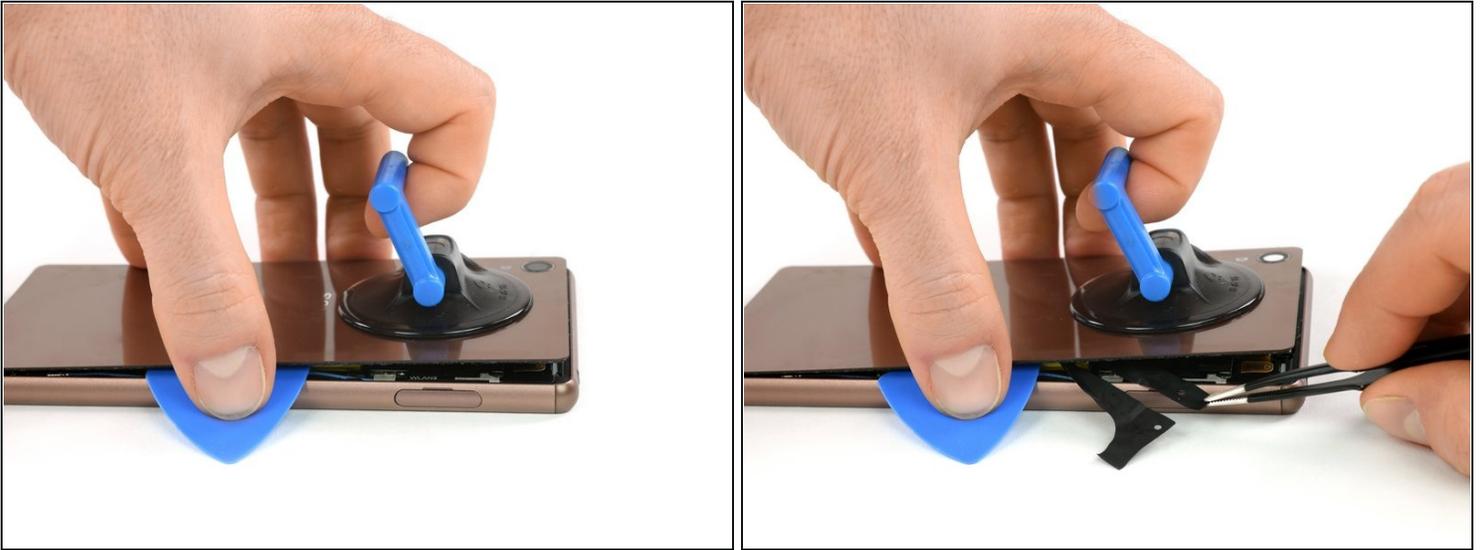
Step 1 — Back Cover



- 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.

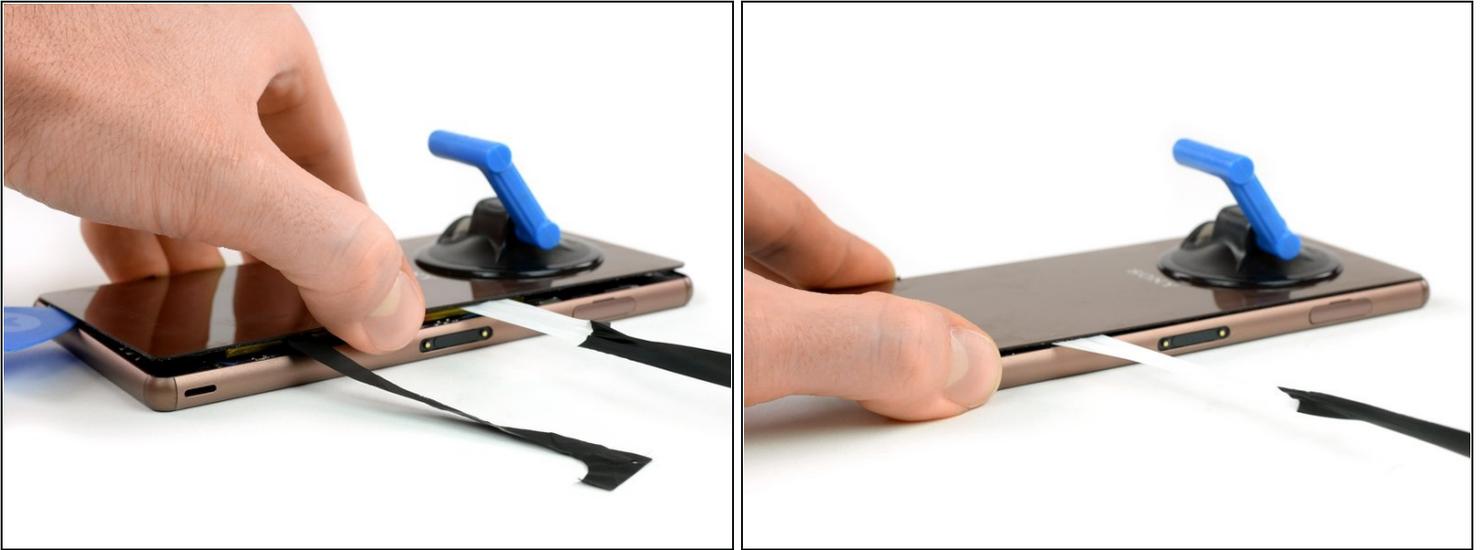
⚠ Don't put the pick in too deep under the back cover to not damage any parts inside the phone.

Step 2



- ① 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



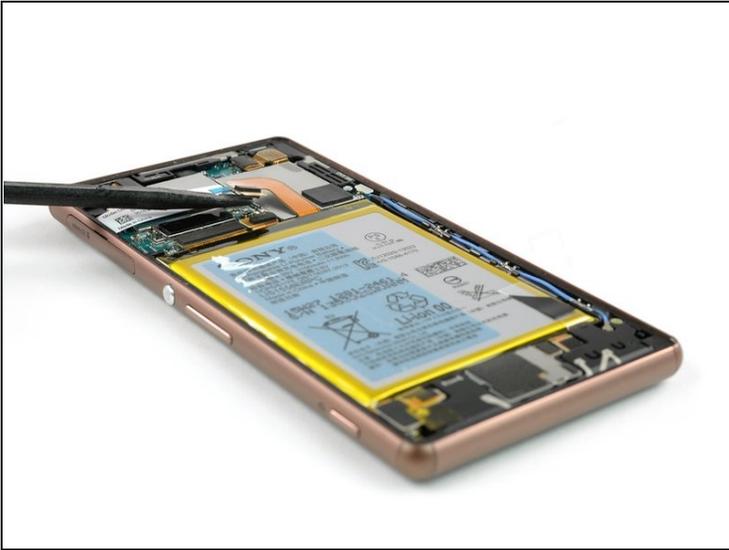
- Gently pull out both of the adhesive tabs out of the phone, parallel to the rear cover.
- ① If the adhesive tabs break, try to use a thin flat plastic tool such as a [plastic card](#) to remove the last of the adhesive. If the adhesive is stubborn, heat it with an iOpener or hair dryer and pry again.

Step 4



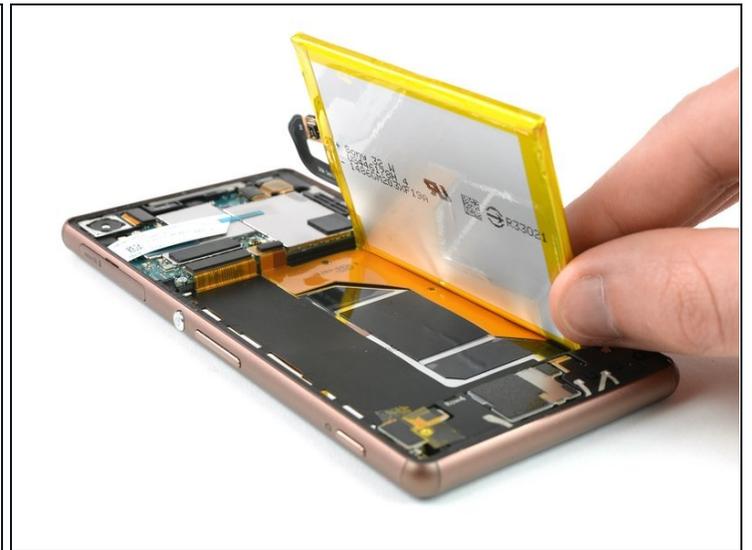
- After pulling out the adhesive tabs, you can lift the back cover and remove it.

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



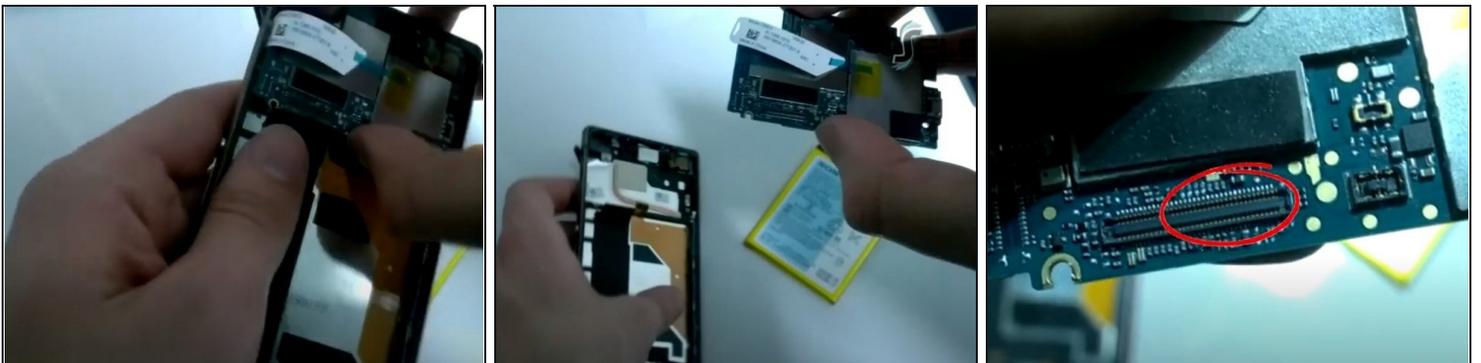
- Use a spudger on the left side of the frame to lever out the battery.
⚠ Be careful with the spudger - there are cables beneath the battery!
- Remove the battery.

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



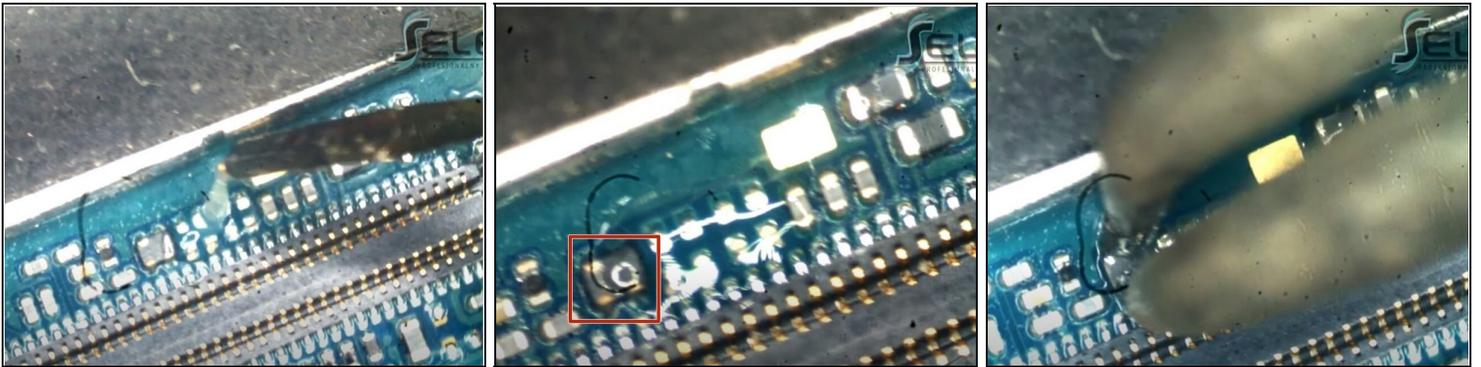
- Use your fingers or the flat end of a spudger to unclip the cables holding the logic board in place.

Step 8



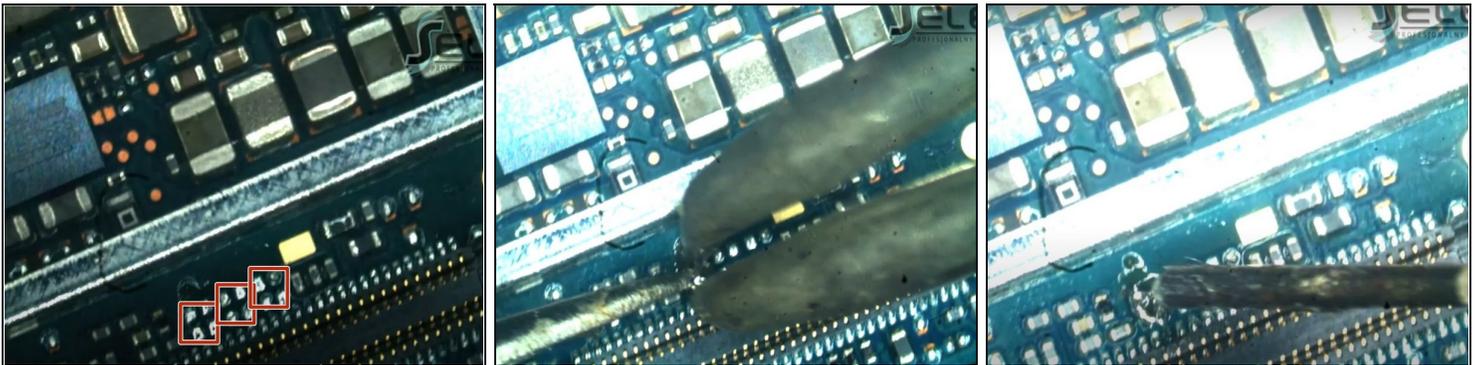
- Use your fingers to remove the phone's logic board.
- Visually inspect the logic board.
 - ⓘ This logic board is missing filters, which were likely damaged when the user attempted to replace the phone's display.

Step 9



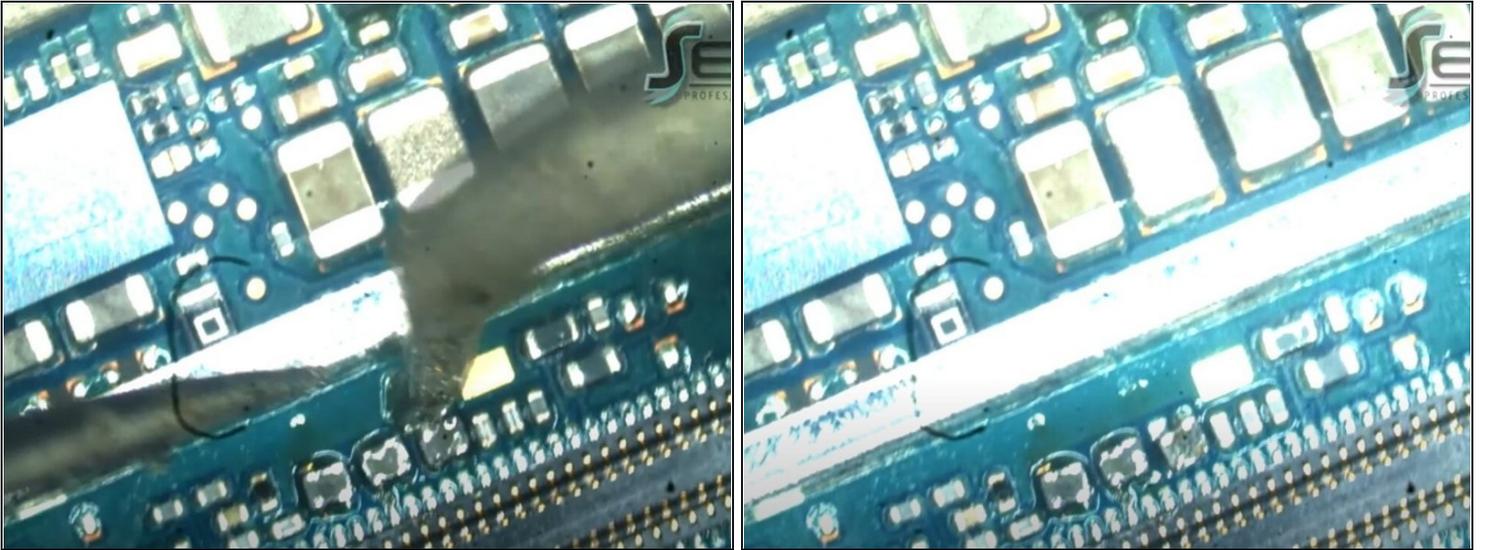
- Apply a small amount of flux to the motherboard's filters.
 - ⓘ In micro-soldering, flux prepares the metal surfaces of the logic board by cleaning and removing impurities.
- Wait at least 30 seconds for the flux to clean the surfaces.
- Use a pair of micro-soldering tweezers to remove the metal square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