

FIXXOO

Battery Repair Set



für/for
13

Anleitung / Manual

FIXXOO

With the Fixxoo repair set, you can bring your iPhone back to life in no time! Everything you need is included in this package.

You can find complete video instructions, FAQ, and further help with repairing your iPhone 12 Pro Max at:

www.fixxoo.com

Safety information

1. Your smartphone must be turned off during assembly/disassembly. The battery should be empty (max. 20%) before you start the repair. This protects you and your device from ignition.
2. If handled improperly, the battery may explode or cause a fire. Do not expose the battery to be replaced or the Fixxoo battery to excessive heat such as direct sunlight, fire or the like. Only use the supplied power cable to charge the iPhone.
3. Leaking battery fluid can cause burns if it comes into contact with skin or other parts of the body. If you notice battery fluid leaking, be sure to avoid contact with skin, eyes or mucous membranes. If you accidentally come into contact with battery fluid, rinse the affected area immediately with plenty of clean water and seek medical attention. Be sure to use protective gloves in case of battery leakage and wipe off the leakage with a dry, absorbent cloth.

Please note: After changing the battery, the iPhone is no longer watertight, and all warranties provided by the manufacturer are voided!

Your tools

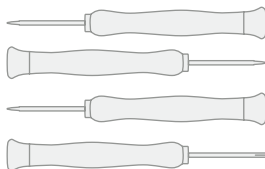
Spudger

With the spudger you can lift and separate plugs and other components.



Screwdrivers

Three high-quality screwdrivers (pentalobe, phillips, and triwing) help you remove and insert the different types of screws.



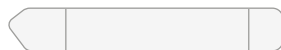
Suction puller

You'll need the suction puller to lift the display.



Lifting tool

With the lifting tool you can loosen glued areas and remove components from the case.



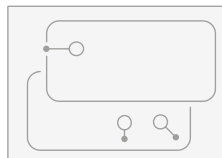
Tweezers

Use the tweezers to work on the sensor assembly more conveniently.



Screw map

The magnetic screw map lets you collect screws and other small metal parts until you need them for re-assembly.



Replacement adhesive strips

For fixing the Fixxoo battery in the iPhone at the end of the repair.

Successful DIY repair

You'll find all the information in this repair manual printed in three colors:

All the information directing you step-by-step through the DIY repair of your iPhone is in gray. Follow these steps to complete the repair successfully.

Optional information which makes the repair easier is in italics.

All warning indications which are critical to follow, even if they are not part of the step-by-step repair, are in red.

PART 1: REMOVING THE DISPLAY



Opening the case

⚠ Discharge the battery to 20% or less before beginning the DIY repair. Otherwise it could possibly catch fire or even explode in case of accidental damage.

- Turn off the iPhone before you begin.
- Remove both Pentalobe screws at the bottom edge of the phone.
- *Tip: After opening the iPhone, the seals will no longer be watertight, so it's best to install new seals. If you don't wish to do this, you should be careful with the iPhone in wet environments.*
- *Tip: You can continue to use the Pentalobe screws if the black rubber seal is undamaged. If it is not, it is better to replace the screws.*

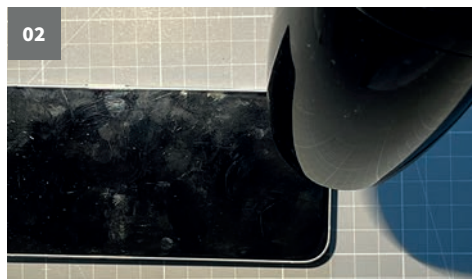
Masking the display

- Is your display cracked? Then you should cover it with adhesive tape in order to avoid injury.
- Overlap the tape strips so that they completely cover the surface of the display.
- *This makes the display more stable and easier to remove.*

⚠ Eye protection (e.g. safety glasses) is recommended during repair, to protect against any possible glass shards.

- Gently heat the bottom edge of the iPhone (where the Lightning connector is located) with a hair dryer. This softens the adhesive, making the case easier to open.

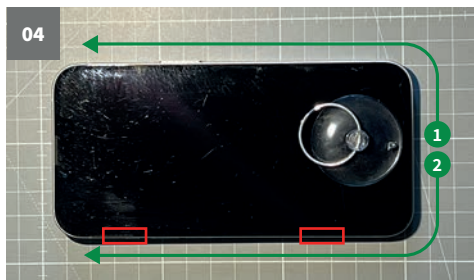
Lifting out the display with the suction puller



- Attach the suction puller (part of the Fixxoo tool kit) near the bottom edge of the phone.
- *Tip: if the display is heavily damaged, you can either attach the suction puller with adhesive tape or form a handle with tape (instead of the suction puller) and stick it on the display. As a last resort, you could attach the suction puller to the cracked display with strong glue.*
- Pull the display glass up with the suction cup to open a small gap between the display and the frame. Insert the pick there.
- Lift the display glass with the suction puller to open a small gap between the display and the frame.
- Insert the lifting tool into the gap.
- The adhesive is very strong, so you'll need to use some muscle to open a gap. Heat helps! Use a hair dryer to soften the glue on the bottom edge.
- Move the suction puller repeatedly upward and downward. If it is too difficult to open a gap, you'll need to apply more heat. Carefully move the display up and down, loosening the adhesive, until the gap is wide enough to insert the tool.



EN Separate the glue seal between the display and the frame.



- Starting from the lower-right corner, slide the lifting tool up the right side of the frame (to the position of the volume buttons), to separate the glue seal holding the display and frame together.
- Repeat this step starting from the bottom edge and going along the right side of the frame.

⚠ Do not insert the lifting tool too far into the iPhone, to avoid damaging inner components.

⚠ There are two sensitive areas on the left-hand side (see Fig. 4). There are ribbon cables running there that you must not damage.

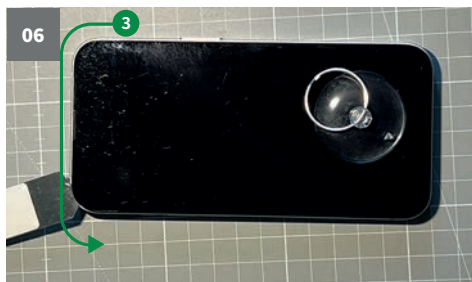


- Don't apply too much pressure - if in doubt, heat with a hairdryer is the best way to help.

Loosening the upper edge

- Now the display is still attached to the frame at the upper edge. It is attached here with both glue and clips.
- Slide the lifting tool around the upper right corner. Gently move the display toward the bottom edge, gently wiggling the display.

⚠ Be patient and gentle so as not to damage the clips. Also, be sure not to insert the lifting tool more than a few millimeters into the case, to avoid damaging the sensors at the upper end of the display.



- Completely separate the rest of the glue at the upper end of the frame by sliding the lifting tool to the left.

Removing the suction puller

- Next, remove the suction puller by pulling on the small tab at the edge. Now you can remove it from the display.

Opening the iPhone

- The display is connected to the logic board on the left side of the iPhone with ribbon cables. You can open it from the right edge just like a book.

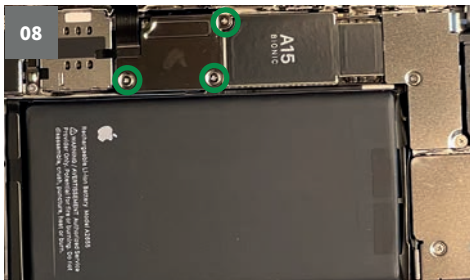
⚠ Open the iPhone carefully so as to avoid damaging the sensitive cables.

- *Tip: use an object to support the display from underneath.*

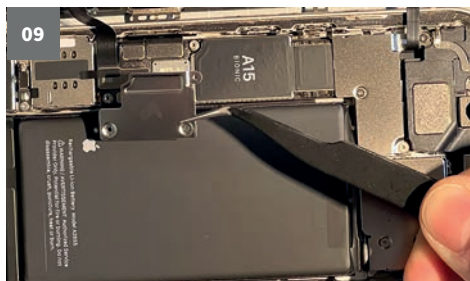


PART 2: WORKING ON THE IPHONE CASE

Removing the cover of the battery and display connector



- There is a cover to the left of the battery and below the A15 chip;
- loosen the three Phillips screws with the green screwdriver and place them on the magnetic mat.



- Then you can remove the cover with the tweezers.

Remove battery and display connector



- Remove the battery plug with the tip of the spudger.

⚠ Like the other plugs in the device, the battery plug has a black silicone seal which protects it from water and dust. Take care not to damage this seal.

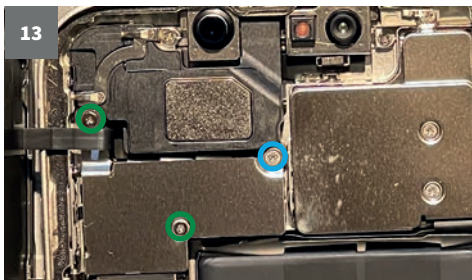


- To the left of the removed battery connector is the display connector, which you will remove next. Make sure that the ribbon cable is not damaged.



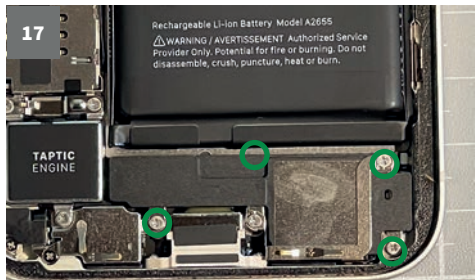
- Align this plug very carefully when reinstalling it so that the plug contacts are not bent.

Disconnect front sensor plug

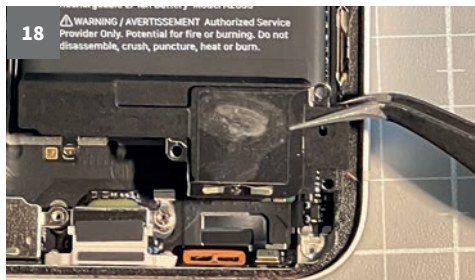


- The connector of the front sensor is protected by a cover with three screws. Two (green) are Phillips screws, the third screw is a triwing screw. Remove them with the appropriate screwdriver.
- The cover is snapped into place on the left-hand side (towards the display), so lift it from the right until the small clip comes loose.
- Now you can also remove this cover with the tweezers.

Removing the loudspeaker



- Next, the lower speaker unit is in the way.
- Remove the four Phillips screws.



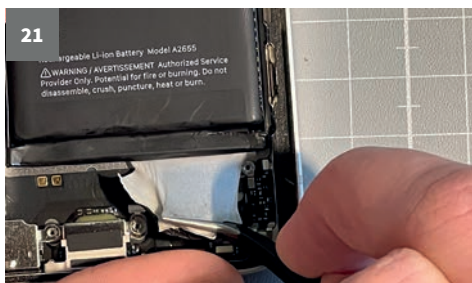
- The unit can now be easily removed with the tweezers.

Remove the battery



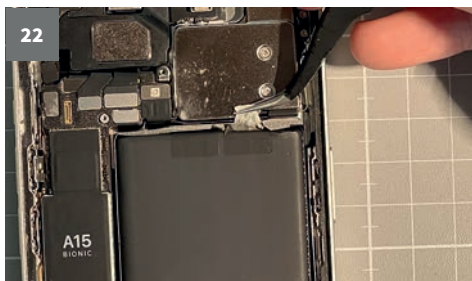
- There are two adhesive strips on each side of the battery. Use the tweezers to remove the protruding tabs that are glued to the battery and slowly pull them out from under the battery. Start at the bottom end.
- Once you have pulled out the adhesive strips a little, grab the white adhesive strip with your fingers and pull it out piece by piece. This applies to all adhesive strips.

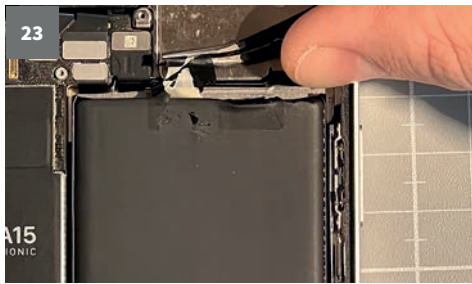
⚠ If one of the adhesive strips tears: Please do not use force. The battery must not be squeezed or bent. A little solvent dripped under the battery or heating with a hair-dryer often helps.



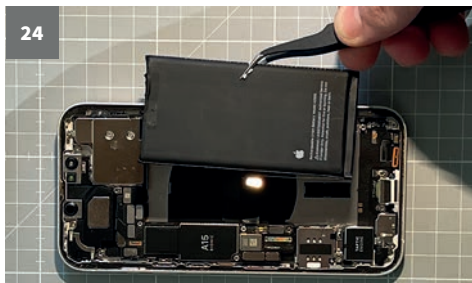
- Then remove the upper adhesive strips.

⚠ Work carefully so that you do not touch the sensor modules at the top edge. Otherwise they could be destroyed.





- The upper adhesive strips have slightly longer pull tabs. This makes them easier to grip.



- Once you have removed all the adhesive strips, you can carefully remove the battery.
- Now you are ready to reinstall the new Fixxoo battery

Reinstalling the Fixxoo battery

When reinstalling the Fixxoo battery, carry out all the steps in the instructions from back to front.

⚠ The adhesive strips (see Fig. 19-23) are replaced. Suitable replacement adhesive strips are included in your Fixxoo repair kit.

Please note the following points:

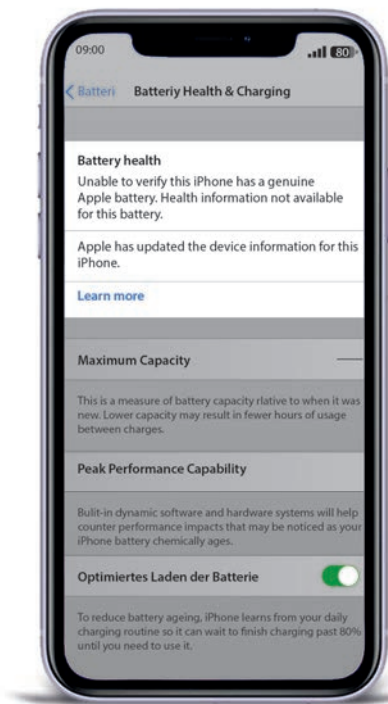
- **Figure 15/16:** If you want to replace the display seals, do this before reattaching the front sensor plug.
- **Figure 12:** This and other plugs are so-called pressure plugs. These must be carefully aligned during reassembly and pressed down on one side until it engages. Then repeat this on the other side. A pressure in the middle could bend the pins and damage the component or the plug. **⚠ Caution: Pressure in the centre could bend the pins and damage the component or the plug.**
- **Figure 8:** Turn the phone on and check its functioning. Check the following things:
 - » Screen
 - » Sound
 - » Touch sensitivity
 - » Proximity sensors

Does everything work? Then you can close the case.

- **Figure 7:** Be careful to place the display in the correct position and position the clips at the upper edge correctly. First, carefully press the upper edge into place, then seat the remaining edges of the display. Be careful not to bend the clips.

Notes after replacing the battery

After installing the battery, an error message may appear during start-up (here is an example from the settings):



The reason is simple - from iPhone Xs/Xr onwards, the operating system checks whether the original iPhone battery is still inserted and you can ignore the error message.

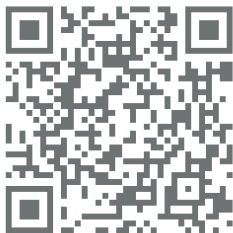
In everyday life, however, this error message, which only appears when starting up and is displayed in the settings, does not bother you.

⚠ However, the battery status is not displayed in the settings.

Declaration of conformity

Stag10 GmbH hereby certifies that the electrical-ly operated display screen conforms to guideline 2014/53/EU. The complete text of the EU declaration of conformity is available at the following URL:

<https://support.fixxoo.de/hc/de/articles/14973641242770>



Disposal

Disposal of packaging:

Sort the packaging before disposal:

- Cardboard and carton with paper



- Plastic wrap with recycling collection



Disposing of a device

(Applicable in the European Union and other European countries with systems for separate collection of recyclables.)

Used devices may not be placed in the household trash



If your smartphone can no longer be used, each consumer is legally obligated to dispose of used devices separately from household trash, e.g. at a collection site in your community or municipality. This ensures that used devices are properly recycled, while avoiding negative environmental effects. For this reason, electronic devices are labeled with the symbol depicted here.

Manufacturer information and service

If you have questions about our display products, or if you experience any problems, first contact us by email at:

info@fixxoo.de

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Stage10 GmbH
Leipziger Platz 9
10117 Berlin | Germany

Troubleshooting

Does the display fail to turn on? Pixel errors? Is the iPhone beeping or vibrating? You can find the solution in our FAQ at:

support.fixxoo.de/hc/de

Fixxoo success guarantee:

Did it not work for you? No problem – Fixxoo will take care of the rest. The price of the repair kit will be credited to you. So you'll pay at most the regular price for a Fixxoo repair.

The only condition: The replacement part and your iPhone cannot have been damaged by your repair attempt – but if you're simply missing a screw, that's not so bad.

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Fixxoo Support:
support.fixxoo.de/hc/de

Fixxoo
Battery Repair Set
for Apple iPhone 13
Art.-No. 16251

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