

FIXXOO

Battery Repair Set

for
iPhone
Xr



Anleitung / Manual

FIXXOO

With the Fixxxoo 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 XR at

www.fixxxoo.com

Safety information

1. Your smartphone must be turned off during assembly/disassembly. Also, the battery can be disconnected before changing the display for additional safety. The battery must not be bent, broken, pierced, or damaged in any way during assembly/disassembly. A damaged battery can cause injury.
2. **Handle the display with care. The LCD display of this device has a very thin protective glass layer which can be scratched, damaged, or imprinted if pressure is applied to it.**
3. **The display must not be bent, broken, pierced, or damaged in any way. A damaged display can cause injury.**
4. Do not expose the display or iPhone to open flames or liquids.
5. Protect the display and the iPhone from impacts.
6. Do not use the iPhone if it is damaged, as this can cause overheating and injury.
7. Read these instructions carefully and keep them for future reference.
8. Follow all warnings, instructions, and indications in the included documents.

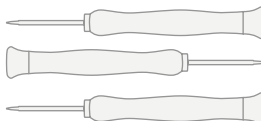
Please note: After changing the display, the iPhone is no longer watertight, and all warranties provided by the manufacturer are voided!

Your tools



Spudger

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



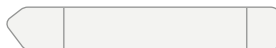
Screwdrivers

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



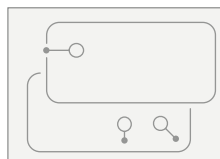
Suction puller

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.



Screw map

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

Replacement adhesive strips

To fix the Fixxxoo 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.

- *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.

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 6.9mm 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.

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.*
- 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.

Separate the glue seal between the display and the frame.



- Starting from the lower-left corner, slide the lifting tool up the left side of the frame (to the position of the mute button), to separate the glue seal holding the display and frame together.

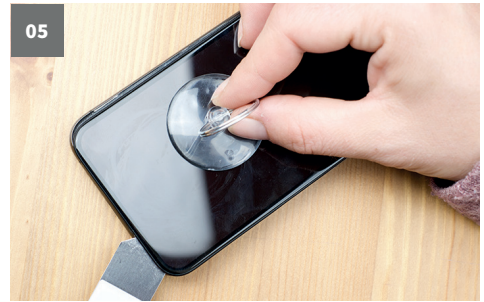


- Repeat this step starting from the bottom edge and going along the right side of the frame.

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

Loosening the upper edge

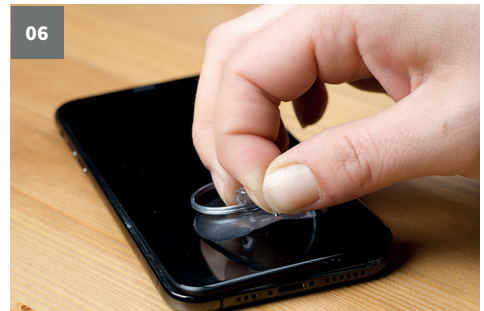
- Now the display is still attached to the frame at the upper edge. It is attached here with both glue and clips. Slide the lifting tool around the upper right corner. Gently move the display toward the bottom edge, gently wiggling the display.



⚠ 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 right side of the iPhone with ribbon cables. You can open it from the left edge just like a book.

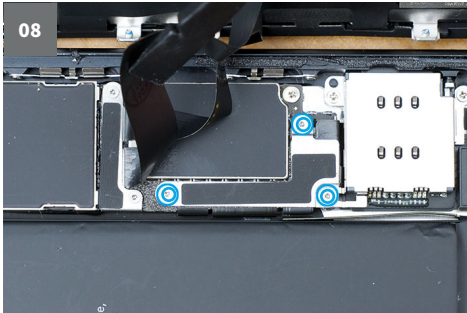
⚠ Open the iPhone carefully so as to avoid damaging the sensitive cables.

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



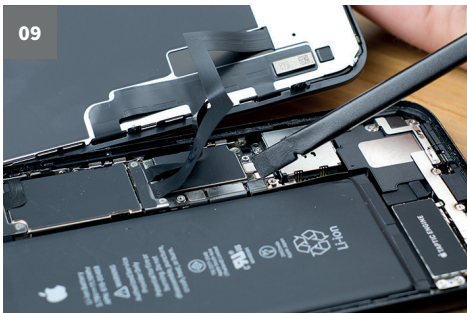
PART 2: WORKING ON THE IPHONE CASE

Removing the battery plug bracket



- Remove the three screws fastening the battery plug bracket to the logic board with the tri-wing screwdriver.
- Next, remove the bracket.
- *Tip: Use the magnetic Fixxoo screw map to sort all the screws. This helps you find the correct screws during re-assembly and avoid mistakes.*

Disconnecting the battery plug

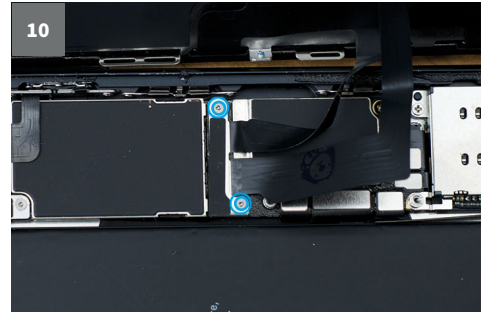


- Insert the tip of the spudger under the battery plug and push it out of its socket.
- Bend the battery plug away from the logic board, to

prevent these from touching during repair.

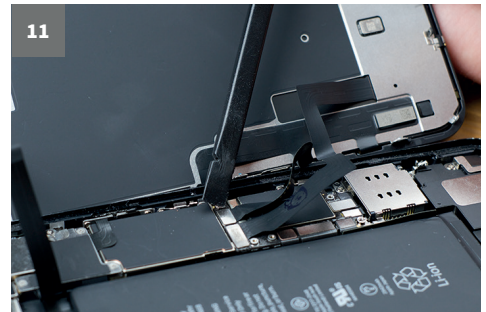
⚠ Like the other plugs in the device, the battery plug has a black silicone seal which protects it from water and dust. Take care not to damage this seal.

Removing the display plug bracket



- Using the tri-wing screwdriver, remove both screws fastening the bracket of the display plug and touch screen cable to the logic board.
- Then remove the bracket.

Disconnecting the touch screen cable



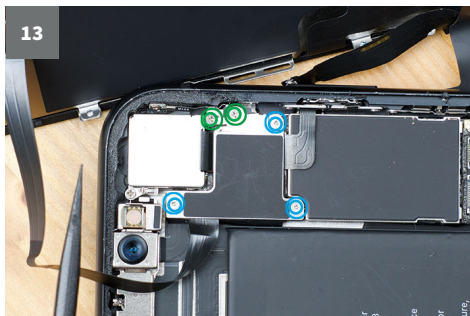
- Insert the tip of the spudger under the touch screen cable, and push to disconnect it.
- *Tip: During reassembly you'll have to carefully align the plug and first push it down on one side until it clicks into its socket. Then you can push down on the other side of the plug until it clicks in also. Be careful not to push it in the middle and to carefully align the plug; otherwise you could bend the contact pins out of shape.*
- *Tip: After repairing, does a part of the display not react to touch? Disconnect the battery and the touchscreen cable, check the socket for dust or foreign objects, and carefully connect it so that it clicks into place.*

Disconnecting the display plug



- Next, disconnect the display cable plug with the tip of the spudger.

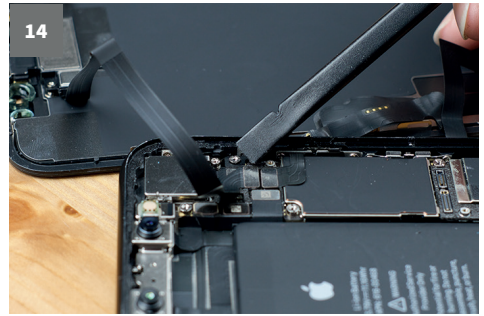
Unfastening the logic board plug bracket



- The logic board plug bracket is fastened with five screws on the back cover of the iPhone.
 - » Three 1.2mm Tri-wing screws
 - » One 1.5mm phillips screw
 - » One 1.3mm phillips screw
- Remove the screws and then the bracket. Be careful not to lose the smaller bracket which was fastened with the two phillips screws.

Unfastening the logic board plug

- Now the plug for the front sensors is free.
- Disconnect this plug with the tip of the spudger.
- Now that all the connections to the display have been disconnected, you can remove the display.

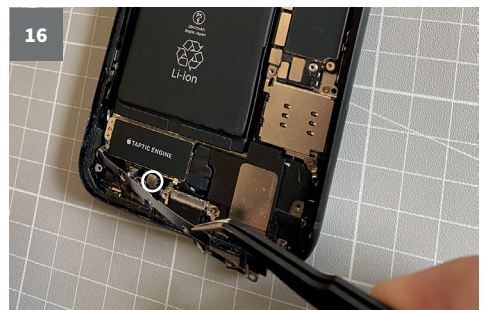


PART 3: REMOVING THE BATTERY

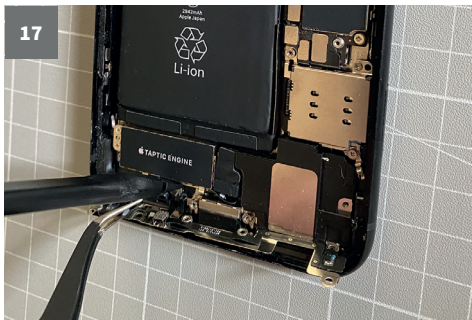
Removing the lower bracket



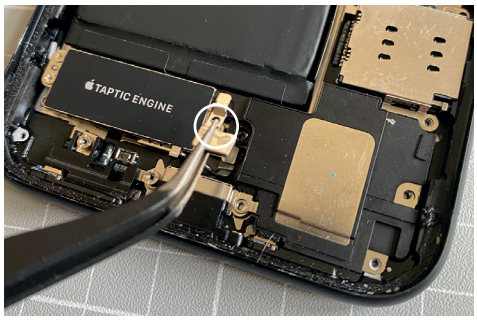
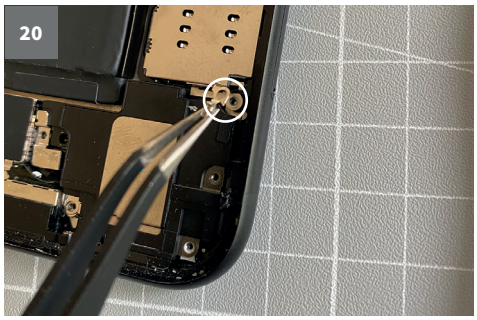
- The cradle at the bottom of the iPhone is attached to the iPhone case with seven Phillips screws.
- Remove them and place them in the appropriate place on the magnetic mat. This is highly recommended because the screws have different lengths.



- Then remove the bracket with the tweezers.
- Look for a small flex cable underneath the Taptic Engine.



- Release the plug of the cable with the tip of the spudger and hold the holder aside with the tweezers.
- Now the holder is released and can be put aside.

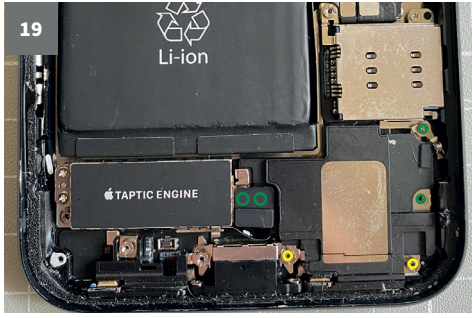


- Now remove the small bracket on the right above the speaker unit (upper picture)
- and the connector cover next to the Taptic Engine and put both aside (lower picture).

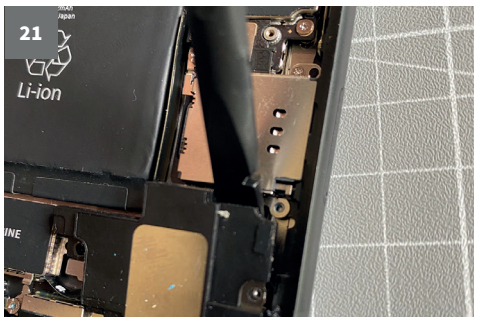


- There is a small rubber pad on the connector of the Taptic Engine that is attached with adhesive tape.
- Remove it with the tweezers and put it aside.

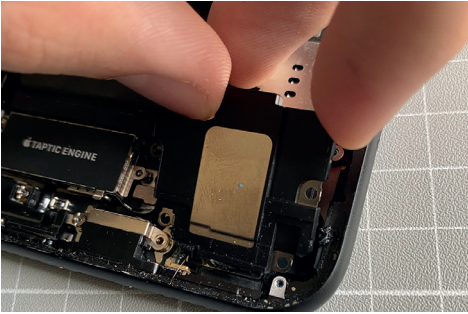
Removing the speaker



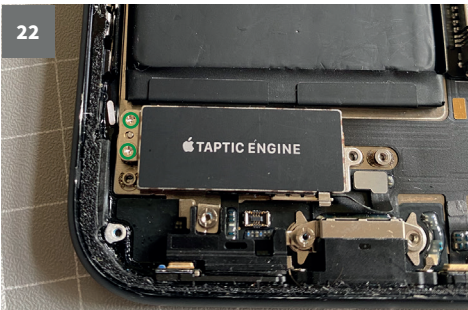
- The speaker unit is secured with three Phillips screws (green) and two spacer screws (yellow).
- Remove these and put them in the designated place.



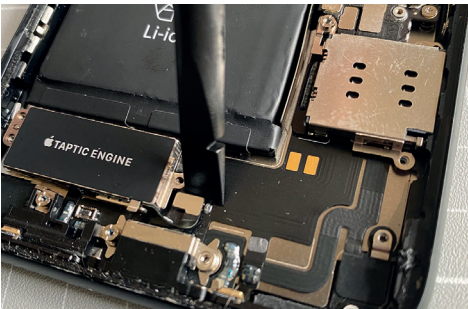
- Now carefully loosen the speaker from above with the spudger.
- The speaker unit is stuck together. You can grab it with two fingers and gently jiggle it to remove it completely (see picture on the following page).
- Is the glue too tight? Then heat it with a hair dryer to get the unit off.
- Is the speaker unit free? Then put it aside.



Removing the Taptic Engine

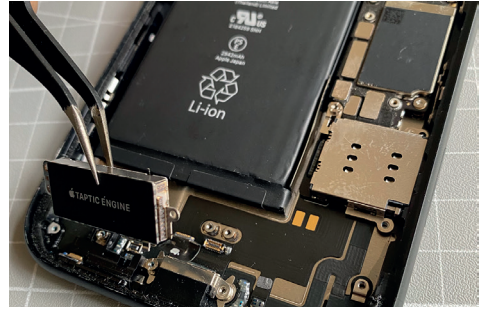


- The Taptic Engine is attached with two Phillips screws on the left. Loosen them and put them aside.



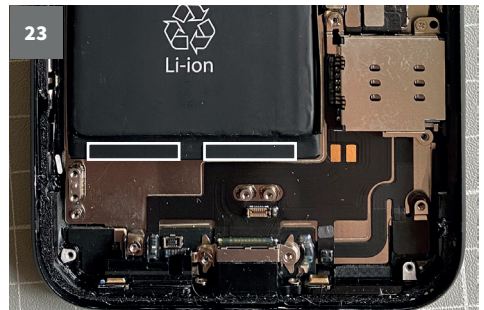
- Now unplug the Taptic Engine with the spudger.

⚠ All ribbon cables are very sensitive. Do not damage them when you work on them.

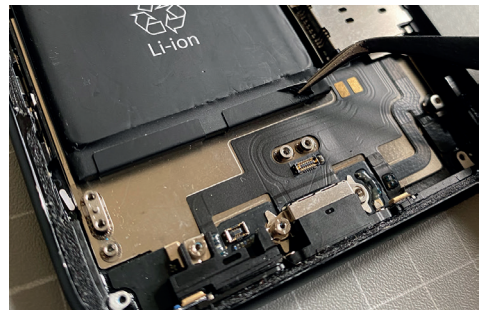


- Now you can lift out the Taptic Engine.

Removing the battery



- 2 adhesive strips are attached to the lower and upper edge (not shown) of the battery. These hold the battery firmly in position.



- Now carefully loosen these adhesive strips with the tweezers

⚠ Work carefully and do not damage the battery. If the battery perforates, it may catch fire or the leaking chemicals may irritate your skin or eyes.



- Once the adhesive strip is released, you can grab it with two fingers and pull it out from under the battery. You do not have to save the adhesive strip for reinstallation. We have packed new strips for your Fixxoo battery.

⚠ If one of the adhesive strips tears: Please do not react with force. Do not squeeze or bend the battery. Often, a little solvent dribbled under the battery or heating with a hair dryer will help.



- Now the battery is free and you can lift it out of the case.
- Now all elements are removed!

Reinstalling the Fixxoo battery

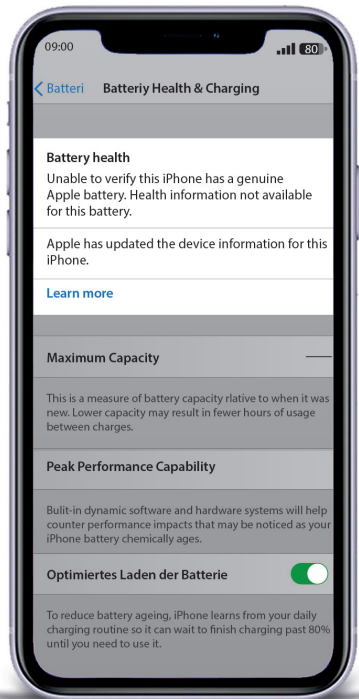
- When reinstalling the Fixxoo battery you'll simply repeat the steps in this instruction guide in reverse order.

Please pay attention to the following:

- **Figure 14:** Place the smaller bracket correctly onto the larger bracket (see figure).
- **Figure 9:** 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 8:** 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

Stage10 GmbH hereby certifies that the electrically 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>


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

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.com

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

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for Apple iPhone Xr
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