

# The time of removable batteries on the phone has expired

This type of battery was popular in the early 1990s. But there are other important features that we must prioritize instead of disassemble batteries.

Apple has recently apologized but often it is not enough. Apple admits it did not say how and why the iPhone slowed when the battery was old for users to understand. While most Apple fans will forgive and accept a battery replacement solution for only \$ 29, there are still more demanding ones: disassembled battery design on the iPhone.

1. Scandal slows down iPhone: phone companies speak up, Apple alone between storms
2. Apple received the error, replaced the battery for only \$ 29, what did Apple fans think?

Looks like this is a good idea but actually very short-sighted. It's not that Apple can't produce iPhones using removable batteries, but they don't. **This type of battery was popular in the early 1990s. But there are other important features that we must prioritize instead of disassemble batteries.**

First, look at history. Apple has never produced an iPhone that can be easily removed. The battery is always sealed inside the iPhone and if you want to remove it only 2 ways:

1. Go to the Apple store
2. Buy the tool yourself and open it (of course, take all risks)

Long before Steve Jobs stepped onto the Macworld stage in January 2007 to introduce the world's first iPhone, Apple decided not to use a removable battery. This is a rather contradictory option at that time when all phones have a removable battery design. But in the end it was the right choice.



*Don't expect the removable battery to come back*

Many manufacturers of Android phones have disassembled batteries on their products as a distinct feature from the iPhone. But let's take a look at the current Android smartphone market. You will be hard to name a high-end Android phone that uses removable batteries (low-cost phones or from unnamed brands still have).

Samsung used the monolith in both of its high-end phones, Galaxy S and Galaxy Note in 2014. LG was one of the last companies to abandon disassemble batteries in 2016 with the G5.

## **Priority other features**

**Why are companies not using removable batteries?** If you are a technology person, you probably have the answer. Of course, they don't just mimic what Apple does. When choosing not to do something, you also create an opportunity to do something else. That is the trade-off.

So is the phone. Do not use removable batteries, in exchange, manufacturers will get the following.

1. **More design options** : Removable batteries are convenient but they limit phone design. Do you see any similarities between Galaxy S5 and Note 4? They all have plastic backs and are easy to peel off to see the battery.

That's fine, except for those who want to use other phones better. Although Note 4 has an aluminum frame, the plastic body with rounded dots like the urgo tape of S5 does not know that there will be a tendency to combine plastic - aluminum. Samsung switched to this design on the S6 next year and still succeeds with its product.

The aluminum plastic body does not fit into the removable battery at all. Although it can still be done - like LG G5 for example - but will have to trade a lot. The monolithic battery offers a slimmer design and if it is a removable battery it will not be as good as using new, better materials.

1. **Water resistance** : If you want to be able to survive higher when you fall into the water, get rain water . then the less the phone is opened, the better.



*Want to fight water, dust penetrate, the more tightly the better*

It is impossible to do so if you easily remove the cover to allow water to enter. Not only water, many phones also have dust protection capability.

1. **Plenty of space for other things** : Disassembled batteries take up more space in the phone that has already been compressed. Other than a monolithic battery, this type of battery requires additional protection to avoid the effects that make it thicker. With a phone, a few millimeters is also important. You can feel it in your hand and nobody wants to make a thick phone when people are racing to see who makes the phone thinner.

Instead of wasting room on batteries, the designer adds other features like speakers, wireless charging or fingerprint sensors .

- o **Batteries have a strange shape** : Disassembled batteries are usually only the most square or rectangular in shape for easy removal and installation. But if you know a little bit about battery design, you'll know that the phone battery is trying to keep more power with other designs.

For example, LG G2 uses batteries in ladder mode, arranges more batteries and forms arc angles instead of straight lines. iPhone X uses an L-shaped battery. Removable batteries with a traditional shape cannot provide as much electricity as those mentioned above.

## It's time to say goodbye

It is understandable that you want to use a removable battery. There is no need to upgrade when the old phone is still in good use and if you want to simply remove the battery, it will be complete, even bring some spare parts without waiting for charging. Apple didn't have the same trouble they had.

But like the departure of PS / 2, floppy disks, headphone jacks . the technology must step forward and leave some behind. Limited by design and technology, removable batteries can only be used when the phone is thick and not as much as it is today.

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2. Fingerprint sensor under the screen will appear next year 2018
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